

SciTech

BOOK NEWS

PSYCHOLOGY

BF77 2007-274293 978-1-4051-4052-2
Preparing for graduate study in psychology; 101 questions and answers, 2d ed.
 Buskist, William and Caroline Burke.
Blackwell Publishing, ©2007 101 p. \$19.95 (pa)
 Buskist (teaching of psychology, Auburn U.) and Burke (psychology, Carleton College) provide a guide to applying for graduate study in psychology. Each chapter contains the most common questions and answers about the basics of programs, choosing one, the GRE, the application process, the interview, admission, and the first year. Information is based on the authors' experiences, insight from first-year graduate students, and faculty colleagues. A timetable, sample vita, and sample letters of intent are included.

BF109 2006-102116 978-0-8047-5548-1
Against Freud; critics talk back.
 Title main entry. Ed. by Todd Dufresne.
Stanford U. Press, ©2007 180 p. \$19.95 (pa)
 This collection of frankly disapproving interviews cannot be said to contain many fond memories of the man or positive commentary on his thought, although some of the historians, philosophers, literary critics, sociologists, psychiatrists and even psychotherapists here do admit to being deluded by Freud's many charms in their first encounters. Topics of their conversations include the industry that reigns over the "revised" life and work, the experience of a woman analyzed by Anna Freud, the relationships of medicine and history with psychoanalysis, the burden of legacy, reasons to become a skeptic, the psychopathology of Freud scholars, the overwhelming power of suggestion and the culture of banality.

BF109 2006-283026 0-393-32861-9
Freud; a life for our time. (reprint, 1988)
 Gay, Peter.
W.W. Norton, ©2006 810 p. \$21.95 (pa)
 This biography (a reprint from 1988) traces the life of Sigmund Freud while using his own methods of psychoanalysis to understand it. In addition, Gay places Freud's life in the context of the psychiatric profession, Austrian culture, European society, and Western culture. Besides recounting Freud's life and work, Gay discusses his therapy and technique, including specific cases, and his works such as *The Interpretation of Dreams*. The book contains a new foreword. Gay is a retired professor (Yale U.) and is the author of other books on Freud.

BF109 2005-034312 1-59051-182-4
Putnam Camp; Sigmund Freud, James Jackson Putnam, and the purpose of American psychology.
 Prochnik, George.
Other Press LLC, ©2006 471 p. \$29.95
 Therapist, literary scholar, poet, and fiction and non-fiction writer Prochnik discusses how Boston psychoanalyst Putnam (1846-1918) introduced the profession to the US and in so doing altered it in ways that its creator Freud (1856-1939) might not have understood or appreciated. The crux of the study is Freud's 1909 visit to Putnam's family estate in the Adirondacks.

BF121 2006-459788 978-0-07-340549-0
Essentials of understanding psychology, 7th ed.
 Feldman, Robert S.
McGraw-Hill, ©2008 653 p. \$82.81 (pa)

With an emphasis on the connections between psychology and everyday life, this textbook introduces undergraduates to the field of psychology. Each of 14 chapters contains three or more short modules. Approximately 1,000 new citations to recent research have been added for the seventh edition. Interactive activities and self-assessment tests for each chapter are available on a companion website.

BF121 2007-928073 978-0-495-10317-2
Introduction to psychology, 8th ed.
 Plotnik, Rod and Haig Kouyoumdjian.
Wadsworth Publishing Co., ©2008 728 p. \$130.95

This heavily-illustrated, modular textbook uses visual aids to explain different approaches to understanding human behavior, the organization of the brain, the basis of intelligence and emotion, the stages of social development, and major psychological disorders and their treatment. Each chapter includes a section which reviews concepts covered in that chapter along with a practice test, summary questions and "links to learning" websites. The eighth edition updates statistics and reflects recent research findings.

BF121 2006-101378 978-1-4129-3867-9
Psychology; six perspectives.
 Fernald, Dodge.
Sage Publications, ©2008 391 p. \$39.95 (pa)

With its range of topics and its objective approach, this advanced undergraduate text can serve in courses on the history or theory of psychology as well as introductory courses. Fernald (psychology, Harvard U.) interweaves a narrative about Freud's patient, Anna O., as he relates psychological perspectives and schools of thought to each other chronologically and within historical contexts. He also provides chapter summaries and exercises to keep readers involved in his reviews of biological psychology, psychoanalysis, behaviorism, humanistic psychology, cognitive psychology, and evolutionary psychology. He also gives students a good idea of the research methods and sociocultural foundations of psychology.

BF176 2006-103356 978-1-60021-570-4
New psychological tests and testing research.
 Title main entry. Ed. by Lydia S. Boyar.
Nova Science Publishers, ©2007 257 p. \$79.00

Thirty international academics and practitioners contribute 13 chapters offering research reports from around the world on psychological testing. Coverage includes psychological testing in inpatient psychiatry; development of a coping inventory for the Japanese; the internal structure of the COPE; computerized psychodynamic psychotherapy; the psychometric properties of the Eysenck Personality Questionnaire-Brief Version; comparison of the Myers-Brigg Type Indicator and the Keirsey Temperament Sorter; behavior assessment in neurorehabilitation; neuropsychological assessment in Spanish-speaking people; testing patients with subcortical vascular dementia; adaptation and validation of the child version of the Personality Assessment Questionnaire for use in Sri Lanka; psychometric tests for use in high performance settings; the effects of age on accuracy, consistency, and confidence of visual recognition memory; and the effects of expertise level and motor skill characteristics on mental rotation. Boyar's credentials are not stated.

BF201 2007-920373 978-0-495-09557-6

Cognitive psychology; connecting mind, research, and everyday experience, 2d ed. (workbook included)

Goldstein, E. Bruce.

Wadsworth Publishing Co., ©2008 552 p. \$125.95

This undergraduate text/manual/web site package offers numerous real-life examples, case studies, mini-experiments, and activities, to help students appreciate the connections between empirical research, principles of cognitive psychology, and everyday life. For this second edition, Goldstein (cognitive psychology, University of Pittsburgh) adds new chapter review sections, critical thinking questions, boxes on topics of interest, and methods sections integrated into the text, describing the various methods used in the field. The accompanying lab manual provides background information, instructions, and questions for classic and current experiments presented on the accompanying web site. The new edition of the accompanying web site features a global database with data from students around the world, between-subject designs that allow for new kinds of experiments, trial-by-trial data, and standard deviations.

BF201 2006-938495 0-495-09963-5

Cognitive psychology; in and out of the laboratory, 4th ed.

Galotti, Kathleen M.

Wadsworth Publishing Co., ©2008 681 p. \$124.95 (pa)

Galotti (psychology and cognitive studies, Carleton College) presents a textbook on cognitive psychology for undergraduates that connects research with real-world issues. New to this edition are a new chapter on the structure of the brain and brain imaging techniques; new information on change and inattention blindness, the perception of visual arts, fMRI studies on memory, and emotional reasoning; and updates on spatial cognition, cognitive development, and gender and individual differences, including cross-cultural approaches. Both author and subject indexes are provided.

BF311 2006-020951 1-60021-333-2

Consciousness and learning research.

Title main entry. Ed. by Susan K. Turrini.

Nova Science Publishers, ©2007 214 p. \$89.00

This volume collects recent international perspectives on facets of consciousness from multidisciplinary fields including the philosophy of science, psychology, neurology, and cognitive science. The eight chapters commence with a theory that all living organisms possess an innate proto-conscious quality down to the cellular level. A memory researcher presents a model that treats the issue of whether conscious and unconscious mental processes can be distinguished experimentally. Other areas explored include the role of learning in the linkage between drug addiction and risky sex, learning styles in second language learning, 19th century British views of the mind, and the physiological basis of intentional acts. The editor's professional affiliation is not given.

BF311 2006-021297 978-0-19-518919-3

Integrated models of cognition systems.

Title main entry. Ed. by Wayne D. Gray. (Oxford series on cognitive models and architectures)

Oxford U. Press, ©2007 470 p. \$75.00

In March 2005 in Saratoga Springs, New York, 30 invited members of the diverse cognitive modeling community met to share commonalities and differences in their approaches to work on various single-focus mathematical or computational models of cognitive functions. The papers that emerged from that gathering discuss such aspects as using brain imaging to guide the development of a cognitive architecture, the modeling and control of visual perception, modeling emotions, the minimal control principle, and constraints on asymptotic performance.

BF323 2007-002957 978-1-59147-930-7

Inhibition in cognition.

Title main entry. Ed. by David S. Gorfein and Colin M. MacLeod. (Decade of behavior)

American Psychological Assn., ©2007 337 p. \$79.95

Psychology researchers from around the US gathered in Arlington, Texas in March 2005 to share and integrate their findings on inhibition in various aspects of cognition. The 15 papers presented here discuss such topics as mechanisms of transfer-inappropriate processing, working memory capacity and inhibition, aging and inhibition deficits, concepts of inhibition and developmental psychopathology, and network models.

BF323 2007-004381 978-0-7657-0488-7

Playing Pygmalion; how we create one another.

Josselson, Ruthellen.

Jason Aronson, ©2007 151 p. \$34.95 (pa)

Josselson (psychology, Fielding Graduate U.) examines why we humans create the characters of people in our lives and respond to what we have created rather than to the real person. She reminds us that we do this unconsciously and that therapists often fall into the same trap as she describes why we create one another, why we recreate others from memories, why we impose our own perceived faults over the characters of others, why we repress the fact we are making up the people around us, and how our own insecurities get in the way of understanding others as themselves.

BF378 2006-025794 978-1-4051-3637-2

Involuntary memory.

Title main entry. Ed. by John H. Mace. (New perspectives in cognitive psychology)

Blackwell Publishing, ©2007 233 p. \$84.95

Mace (psychology, U. of New Haven) assembles 10 essays reviewing the past decade of investigation and presenting new findings in the relatively new research area of involuntary memory. Contributors from the fields of neuroscience, psychology, and psychiatry in the US and UK discuss involuntary memories that occur during recall, in everyday mental life, or as part of a psychiatric syndrome such as Posttraumatic Stress Disorder. They describe new experimental methods, naturalistic diary studies on the effects of age and cues, theories about activation and the functional nature of these memories, and global workspace theory.

BF378 2006-009858 978-0-19-516863-1

Variation in working memory.

Title main entry. Ed. by Andrew R.A. Conway et al.

Oxford U. Press, ©2007 321 p. \$85.00

Working memory—the ability to keep important information in mind while comprehending, thinking, and doing—and especially its variation across the life span and from person to person, is of considerable interest to cognitive psychology and cognitive neuroscience. Here psychologists and related scientists focus on the causes and consequences of this variation. Specifically they look at variation due to normal differences within and between individuals, to normal and atypical development, and to normal and pathological aging. The 11 studies are from a July 2003 conference in Chicago.

BF456 2006-025988 978-0-8018-8587-7

The mind of the mathematician.

Fitzgerald, Michael and Ioan James.

Johns Hopkins U. Press, ©2007 181 p. \$30.00

Fitzgerald (psychology, Trinity College Dublin) and James (geometry, Oxford U.) examine the full range of the mathematical mind, including the ability to perform abstract functions others cannot hope to understand, the tendency to be savants and the folk tales about mathematicians and madness. They review the literature about ability and the dynamics of mathematical creation and spend the bulk of their time on twenty mathematicians from Lagrange to Galois, Cantor, Kovalevskaya, Hilbert, Hardy, Ramanujan and Godel. The result poses as many questions as it answers, and although the authors see definite trends, they also see that the active, creative mathematical mind is not an anomaly or extension but an entity unto itself and best examined brain by brain.

BF469 2006-029130 978-0-19-518922-3

The emerging spatial mind.

Plumert, Jodie M. and John P. Spencer.

Oxford U. Press, ©2007 410 p. \$75.00

The editors (professors of psychology at the U. of Iowa) present 16 essays that survey recent theoretical and empirical research on the development of spatial cognition in children and adults. Papers explore the use of metric and nonmetric spatial information by children and adults for recalling previously seen locations, orienting in the environment to find objects, and orienting for navigation. They also address issues of how infants and children form spatial categories before and after the onset of language; links between language, thought, and the body acting in space; and how the use of symbolic representations such as maps constrain and are constrained by the development of spatial cognition. Finally, they examine how the absence of a sensory system or particular genes may affect the development of spatial skills and how process modeling of the moment-by-moment dynamics of spatial cognition relates to change over longer times scales.

BF511 2006-014136 978-0-19-516915-7

Handbook of emotion elicitation and assessment.

Title main entry. Ed. by James A. Coan and John J.B. Allen. (Series in affective science)

Oxford U. Press, ©2007 483 p. \$95.00

This handbook details the major methodological achievements of the now mature multidisciplinary field of affective science, and Coan (psychology, U. of Virginia, Charlottesville) and Allen (psychology, cognitive science, and neuroscience, U. of Arizona, Tucson) hope that it serves to stimulate further innovation in this highly theory-driven field. International contributors to 26 chapters discuss strategies for eliciting emotion in the laboratory setting (e.g., through films, music, self-statements); measurement of emotions (raising the conceptual issues of the validity of elicited emotions and whether measurement alters the response); and approaches to understanding the biological bases of emotion including functional magnetic resonance imaging.

BF637 2007-927252 978-0-495-09153-0

Behavior modification; principles and procedures, 4th ed.

Miltenberger, Raymond G. Wadsworth Publishing Co., ©2008 632 p. \$116.95 (pa)

In this approach to understanding behavior modification, knowing why comes before knowing how. Miltenberger (applied behavior analysis, U. of South Florida) makes sure readers understand the principles before they choose and apply them in sets of explanations, examples, case studies and exercises designed to establish new behavior, increase desirable behavior and decrease undesirable behavior. He covers reinforcement, extinction, punishment, stimulation control, respondent conditioning, shaping, prompting, transfer of stimulus control, chaining, functional assessment, and tailoring basic principles and procedures into combinations that meet specific, complex needs along with advice on self-management and habit reversal. Miltenberger provides applications and misapplications for each topic, key terms, practice tests, and chapter quizzes and has updated his materials to reflect current research and practice for this edition.

BF637 0-9751585-8-9

Counselling and interviewing for carers; a basic guide. (CD-ROMs included)

Irons, Hugh. Ausmed Publications, ©2006 170 p. \$49.95 (pa)

Irons (nursing and qualifications in workplace assessment and training, U. of Ballarat, Australia) offers readers in caring professions with little training in counseling this non-technical guide to using therapeutic communication to help others. Chapters cover techniques for initial interviews (both the helping and motivational types), and discuss strategies for working with special populations (i.e. younger people and families) and special situations (i.e. suicide, grief, and aggression). Intended audience includes teachers, childcare staff, personal care attendants, and receptionists in medical practices, as well as relatives of people with mental-health issues. An audiobook version accompanies the text. U.S. distribution of this book is by BookMasters.

BF637 2006-045581 978-0-398-07681-8

Microcounseling; making skills training work in a multicultural world.

Daniels, Thomas et al. C.C. Thomas, ©2007 274 p. \$65.95

Daniels (psychology, Memorial U. of Newfoundland) and Ivey (U. of Massachusetts, Amherst) outline the major theoretical constructs and concepts of the microcounseling model, examine microcounseling and intentional competence, discuss issues and strategies in microcounseling supervision, and review and summarize 450-plus studies on microcounseling from 1967 to the present. The text also includes chapters contributed by several internationally renowned scholars involved in the development of microcounseling—Machiko Fukuhara (Tokai U., Mito, Japan), Kay Gustafson (Omaha Veteran's Administration Medical Center, Nebraska), Paul Pedersen (Syracuse U.), and Henk Van Der Molen (Erasmus U., Rotterdam)—focusing on the application of microcounseling within various multicultural contexts. For professionals and graduate and undergraduate students in counseling programs, as well as social workers, nurses, and physicians.

Watch for four stars: ★★★★★ The stars you see at the beginning of some annotations indicate that a previous edition has been cited in *Resources for College Libraries*, *Books for College Libraries*, 3rd ed., *Guide to Reference Books*, or other standard references.

BF698 2006-034729 978-1-59147-924-6

Assessing Hispanic clients using the MMPI-2 and MMPI-A.

Butcher, James N. et al. American Psychological Assn., ©2007 317 p. \$69.95

Butcher (U. of Minnesota), Cabiya (Carlos Albizu U., San Juan, Puerto Rico), Lucio (National Autonomous U. of Mexico), and Garrido (U. of Rhode Island) provide psychological assessment practitioners a discussion of the issues, strengths, and limitations of incorporating an objective personality assessment instrument for psychological evaluations with Hispanic clients. Coverage includes an overview of the research base and the most effective interpretive strategies for MMPI-2 and MMPI-A, international use of the Spanish-language adaptations of the two instruments, use of the MMPI-2 with Hispanics in the U.S., assessing the credibility of Hispanic clients' responses, MMPI-2 measures and possible adjustments to interpretation of some scales, case studies of clinical interpretation of the MMPI-2 with Hispanic clients, assessing Hispanic adolescents with the MMPI-A, and case studies illustrating the use of the MMPI-A.

BF724 2006-053035 978-1-57524-245-3

Adult development and aging, 4th ed.

Hayslip, Bert et al. Krieger Publishing Co., ©2007 298 p. \$44.50

Hayslip (psychology, University of North Texas) presents work on the development of all ages of adults from a topical rather than a chronological perspective. Reinforcing the text's dual emphasis on basic and applied research, chapters are arranged to first lay the groundwork for thinking about adult development, and then deal with basic psychobiological processes and psychological topics. Special consideration is given to issues regarding personality and psychopathology, clinical interventions, cognitive processes, social roles, physical changes, and death and dying. This fourth edition places additional emphasis on the applied aspects of adult development and aging. Features retained from the previous edition include key terms and review questions, and excerpts from interviews with people are various ages. Glossary terms are bold within the text, but so many other words are also bold that it becomes distracting.

BF724 2005-009305 0-19-516953-0

Lifespan cognition; mechanisms of change.

Title main entry. Ed. by Ellen Bialystok and Fergus I.M. Craik. Oxford U. Press, ©2006 397 p. \$75.00

Researchers in cognition will find much of value in this interdisciplinary volume, which takes as its premise the pairing of chapters on given subjects, one by an expert in childhood and the other by an expert on aging, allowing connections and comparisons to be made between the two. Other chapters are on lifespan and methodology, including those on inter- and intra-individual differences in problem solving, and brain changes. Topics include working memory, representation, language, and differentiation of cognitive abilities. The contributors are psychologists in the US, Canada, Germany, and Australia. Bialystok is at York U. in Toronto; Craik is in Toronto at the Rotman Research Institute at the Baycrest Centre for Geriatric Care.

BF724 2006-045535 0-202-30901-0

Lives through the years; styles of life and successful aging. (reprint,1965)

Williams, Richard H. and Claudine G. Wirths. AldineTransaction, ©2007 298 p. \$29.95 (pa)

In this first paperback edition of the 1965 Atherton Press classic on aging, well-known sociologist Talcott Parsons (d. 1979) introduces a more timely than ever analysis based on the Kansas City Study of Adult Life. Williams (National Institute of Mental Health) and Wirths (consulting psychologist, NIMH) discuss their frames of reference for studying styles of optimal as vs. negative aging, e.g., the concept of "social life space" applied in interviews plus life histories of 165 older men and women over a period of 5.5 years.

BF789 2006-031772 0-299-22254-3

Meaning in suffering; caring practices in the health professions.

Title main entry. Ed. by Nancy E. Johnston and Alwilda Scholler-Jaquis. (Interpretive studies in healthcare and the human sciences; v.6) U. of Wisconsin Press, ©2007 293 p. \$26.95 (pa)

Canadian and US instructors mostly of nursing but also philosophy and medical anthropology, urge health-care professionals to resist the very understandable urge to distance themselves from the suffering of their patients, and to strengthen their capacity to remain fully present to individuals and families during profound loss. They also explore how new possibilities both arrive and are closed down during suffering.

RELIGION

BL263 2006-023081 978-0-19-531538-7

Evolution and religious creation myths; how scientists respond.

Lurquin, Paul F. and Linda Stone.

Oxford U. Press, ©2007 224 p. \$29.95

Lurquin and Stone (respectively: genetics & anthropology, Washington State U.) describe their own views of creationism and neo-creationism from the perspective of their fields and rebut attacks against evolutionary science. They are not against religion, they say, only against self-declared righteous who put science in jeopardy by presenting a distorted view of it.

BS651 2006-033450 978-1-4051-5490-1

Doubting Darwin?; creationist designs on evolution.

Sarkar, Sahotra. (Blackwell public philosophy)

Blackwell Publishing, ©2007 214 p. \$19.95 (pa)

It cannot be said that Sarkar (integrative biology and philosophy, U. of Texas at Austin) has no use for the discipline of intelligent design. Here, for example, he finds it handy as a target and seeks to deflate it completely, precept by precept. Sarkar finds intelligent design to be inaccurate, misleading and repugnant, and explains why in great detail. He describes the central argument between evolutionary theory and intelligent design theory, explains the work of Darwin and Wallace and the reasons why some reject it, details the thinking behind intelligent design and its variants, and gives the most up-to-date ideas about evolution. He then finds evidence from biology and physics that refute the idea of intelligent design and explains creationist critiques of such evidence. He closes with a plea to ensure evolution is the acceptable theory taught in public schools.

BT732 2007-016344 978-0-275-99506-5

Spirit, science, and health; how the spiritual mind fuels physical wellness.

Title main entry. Ed. by Thomas G. Plante and Carl E. Thoresen.

Praeger, ©2007 230 p. \$49.95

Medicine is increasingly embracing a health promotion rather than disease model. As associates with the Spirituality and Health Institute at Santa Clara U., Plante (psychology, Santa Clara U.) and Thoreson (emeritus, education and psychology, Stanford U.), introduce 14 chapters examining how the formerly little-researched psychosocial factor of spirituality/religion relates to health in general and to specific patient populations. Social cognitive theory, to which the contributions of preface writer Albert Bandura (Stanford U.) are well-known, is used to explain the demonstrated health effects of such practices as meditation and holy name repetition. Case examples treat ethical pitfalls.

GEOGRAPHY, HYDROLOGY, ENVIRONMENT

G70 978-1-59693-042-1

GNSS markets and applications.

Jacobson, Len. (GNSS technology and applications series)

Artech House, ©2007 216 p. \$79.00

For some four decades, California-based marketer and consultant Jacobson has been involved with global navigation satellite systems (GNSS), of which the best known is the global positioning system (GPS). Here he explores the business aspects of the systems. He reviews the history and current status of the technology and government policies regarding it, then looks at air and space, maritime, land, mapping and surveying, geodesy and timing, and military applications. He also surveys the companies currently doing business in the industry.

G70 2006-045528 0-8493-9255-1

Introduction to remote sensing, 2d ed.

Cracknell, Arthur P. and Ladson Hayes.

CRC / Taylor & Francis, ©2007 335 p. \$79.95

A current and a former professor at Dundee University describe remote sensing satellite platforms that carry instruments for gathering information about the surface of the Earth, several different radar systems, and applications of remotely sensed data. The second edition adds sections on airborne lidar for land surveys, airborne gamma ray spectroscopy, and interferometric synthetic aperture radar.

G70 2007-012050 978-1-905209-09-5

Models in spatial analysis.

Title main entry. Ed. by Lena Sanders.

ISTE Ltd., ©2007 319 p. \$180.00

Sanders (geography, Centre National de la Recherche Scientifique, France) and her contributors provide students and nonspecialist professionals an overview of the different models used in advanced spatial analysis, focusing on spatial organization, location factors and spatial interaction patterns from both static and dynamic perspectives. They cover modeling concepts used in spatial analysis, geographical scales and multidimensional statistical methods, the location of public services from theory to application, time-geography (defined as individuals in space and time), the process of spatial diffusion and modeling change, spatial micro-simulation models, multi-agent simulations of spatial dynamics, remote sensing and urban modeling, mathematical formalization for spatial interactions, and the subtleties of fractals and geography. Sanders provides a general index.

G70 2006-022714 978-0-19-517817-3

Remote sensing; the image chain approach, 2d ed.

Schott, John R.

Oxford U. Press, ©2007 666 p. \$119.50

In this textbook explaining the principles behind overhead earth observation using aircraft and satellite remote sensing images, Schott (imaging science, Rochester Institute of Technology) adopts an "image chain" approach that treats the entire remote sensing process as an interrelated system consisting of a sequence of steps that lead to a final output. The point of the approach is to characterize and quantify the subsystems and transfer relationships along the image chain. Following this approach, he traces electromagnetic flux from its origins to the sensor; describes the spatial, spectral, and radiometric links in the image chain associated with imaging sensors; deals with reverse engineering back along the radiometric links in the image chain from the sensor to the ground to compute target-specific values such as reflectance and temperature; and covers the links in the chain associated with monochrome, multispectral, spectroscopic, and model-based image processing. He also discusses how to identify and potentially correct limitations in various links in the chain and explores how synthetic image generation can be used in conjunction with the image chain approach in order to analyze images and imaging systems.

GB450 2007-009073 978-0-7844-0926-8

Coastal sediments '07; proceedings; 3v.

Int'l Symposium on Coastal Engineering and...Coastal Sediment Processes (6th: 2007: New Orleans, La.) Ed. by N.C. Kraus and J.D. Rosati.

Am. Society of Civil Engineers, ©2007 2528 p. \$395.00 (pa)

Appropriately held in New Orleans, the 6th International Symposium of Coastal Engineering and Science of Coastal Sediment Processes (May 2007) heard a keynote address from a representative of the Louisiana Department of Natural Resources regarding recent hurricane damage. Following are 197 peer-reviewed papers offering basic research as well as case studies and practical engineering solutions concerning sediment transport fundamentals, shoreline change, gravel coasts, dunes, deltas and river mouths, storms, tsunamis, sea level rise, wind-blown sand, mud coasts, and estuaries, dredging, and beach nourishment and structures, among other topics. The contributors represent 24 countries and a diversity of ideas, viewpoints, and experiences. Arrangement is in three volumes; the index is included in each volume for convenience.

GB622 2006-032840 978-1-4051-1507-0

Geomorphology of upland peat; erosion, form, and landscape change.

Evans, Martin and Jeff Warburton. (RGS-IBS book series)

Blackwell Publishing, ©2007 262 p. \$79.95

Evans (geomorphology, U. of Manchester, UK) and Warburton (geomorphology, Durham U., UK) provide an overview of research on the geomorphology of upland peatlands and erosion processes and the long-term evolution of eroding upland systems. Writing for peatland geomorphologists and those involved in researching and managing their ecology, the authors aim to present an understanding of the geomorphology of upland peats and show the importance of this perspective for understanding and managing these upland systems. They focus on their own work on areas in northern Britain, particularly in the Pennine ranges, but also placing this research in a wider context. They describe a peat landsystem conceptual model, which includes the hydrology of upland mires, geomorphic processes operating in peatlands, the morphological expression of the combination of erosion processes in upland mires, the interaction of erosional and ecological processes and consequences, and the implications of widespread peat erosion. Both subject and name indexes are provided.

GB671 978-1-84339-110-4

Environmental history of water; global views on community water supply and sanitation.

Juuti, Petri S. et al.
IWA Publishing, ©2007 629 p. \$210.00

In these 33 papers experts from around the world describe their research into the details of both quality and quantity in environmental history, engineering and management of water as well as in the history of public health relating to water. They cover early systems and innovations, the long period of slow development up to the twentieth century, and the modern urban infrastructure with such topics as water supplies and the late Roman army, Europe's legacy of water and health, the emergence of the idea of water-borne diseases, water supplies in colonial settlements, privatization, the role of water in industry and development, the intricacies of water management in major cities, and the role of healthy water in indigenous cultures. Papers include conclusions and introductions for each major topic. US distribution by BookMasters.

GB1207 2006-287059 1-58603-621-1

Stochasticity, nonlinearity and forecasting of streamflow processes.

Wang, Wen.
IOS Press, ©2006 210 p. \$63.00 (pa)

Wang, who wrote this thesis toward his MS in geomorphology and quaternary environment at Nanjing U., notes that forecasting of stream flows is important not only for water management but also for flood control. He focuses on mathematically based methods to find the stochastic and nonlinear roots of stream flow processes based on univariate historic stream flow records and presents data models that are also based on univariate stream flow time series. He includes significant data involving the effects of global warming, particularly in the Yellow River, and conducts analyses of trend, seasonality, stationarity and long-memory for this and other stream flows, showing that each have an impact upon stream flows.

GC21 2007-060872 978-0-06-089139-8

Ocean science.

Hoffman, Jennifer. (Science 101)
Harper Collins Publishers, ©2007 218 p. \$15.95 (pa)

Introducing the topic of ocean science to nonscientists, general readers, and students, this volume, which integrates many color photos, covers a variety of habitats and animals in the ocean. Ocean history, the nature of water and its interplay with the air, currents, waves and tides, beaches, and threats to ecology are all topics explored.

GE45 2006-028546 978-0-8031-4473-6

ASTM standards related to environmental sampling, 2006 3d ed.

Title main entry.
ASTM International, ©2006 863 p. \$175.00 (pa)

This volume presents the most recent ASTM standards relating to the collection and handling of environmental samples. Included are (for example) practices for conducting baseline surveys; a test method for determining the anaerobic biodegradation of plastic materials in municipal sewage sludge; a guide for sampling groundwater monitoring wells; and a specification for waste glass as a raw material for the manufacture of containers. An extensive subject index completes the volume.

GE56 2006-404312 978-1-55365-281-6

David Suzuki; the autobiography.

Suzuki, David.
Greystone Books, ©2006 405 p. \$18.95 (pa)

Twenty years after his first memoir, *Metamorphosis: Stages in a Life*, acclaimed Canadian geneticist and environmentalist David Suzuki reflects on the 70-plus years of his life. The first five chapters provide a condensed account of his first 50 years, with a somewhat different emphasis from that of *Metamorphosis*, and includes some new information about those years. The remaining 13 chapters examine the events of the past 20 years, and the author's thoughts about and hopes for the future. Illustrated throughout with b&w photographs.

GE140 2006-035641 978-1-59726-131-9

Sustainability indicators; a scientific assessment.

Title main entry. Ed. by Tomas Háek et al. (SCOPE series; 67)
Island Press, ©2007 413 p. \$49.95 (pa)

When it is not desirable or practical to wait a hundred years or so to find out whether a practice is sustainable—that is, always—organizations and governments develop indicators and indices they hope will predict the degree of sustainability. Mostly each develops its own, which means there are at least dozens, maybe hundreds in use. A team of Scientific Committee on Problems of the Environment and the United Nations prepared this guide to assessing the reliability of such indicators. They also include some case studies.

ANTHROPOLOGY

GN69 2006-051293 978-0-398-07734-1

Forensic archaeology and human rights violations.

Title main entry. Ed. by Roxana Ferllini.
C.C. Thomas, ©2007 304 p. \$78.95

Eleven chapters presented by Ferllini (forensic archaeological science, U. College London, UK) explore issues connected to the use of forensic archaeology and forensic anthropology for the investigation of human rights violations. Topics addressed include the implications of international criminal law for investigation; the legal framework, organization, and processes of international forensic investigations; lessons from international cases for crime scene management; challenges for forensic anthropological investigations in the field and at the mortuary; and case studies of applications in Bosnia and Herzegovina; Colombia; Argentina; and Afghanistan.

GN296 2005-012970 0-89089-573-2

We have no microbes here; healing practices in a Turkish Black Sea village.

Önder, Silvia Wing. (Ethnographic studies in medical anthropology)
Carolina Academic Press, ©2007 304 p. \$40.00 (pa)

Önder (Turkish language and culture, Georgetown U.) describes women's healing methods in Medreseöñü, a Turkish Black Sea village, in this ethnography. Following earlier visits as part of her dissertation research, she made regular trips to the village beginning in 1990 to see relatives of her husband and conduct research on health care practices. Each chapter details the local setting and gives an analytical investigation of the culture and its healing practices, with a focus on ideas of illness, health, birth, and death. This illustrates women's participation in the "construction, maintenance, and redesigning" of culture. Chapters also consider religion, the life of a rural Turkish woman, ritual, reproduction, and the place of institutions of clinical medicine. The book's audience consists of those in medical or general anthropology, gender studies, Islamic studies, European studies, and ritual studies. In addition to the general index, a name index is provided.

GN407 978-1-891853-92-0

Voices from the forest; integrating indigenous knowledge into sustainable upland farming.

Title main entry. Ed. by Malcolm Cairns.
Resources for the Future, ©2007 826 p. \$50.00 (pa)

Cairns (anthropology, Australian National U.) introduces 68 case studies belying the reputation that indigenous slash-and-burn agriculture (also known as swidden or shifting cultivation) has as a contributor to land degradation, deforestation, and today, to smog in Southeast Asia. Multidisciplinary international scientists analyze the diversity of such rotational and fallow arrangements, and the lessons that such traditional practices that are often ingenious adaptations to local conditions offer for sustainable farming. E.g., the potential of harvesting native wild vegetables is discussed as an alternative to growing pest-prone, heavy fertilizer-feeding exotic species. Indexing is by botanical name, ethnic group, and subject. Distributed by Johns Hopkins U. Press.

Explorations in psychoanalytic ethnography.

Title main entry. Ed. by Jadran Mimica.

Berghahn Books, ©2007 245 p. \$25.00 (pa)

For anthropologists and psychoanalysts, Mimica (anthropology, U. of Sydney, Australia) brings together nine essays on psychoanalysis and ethnography that focus on the human culture as explored through psychoanalytic practice and ethnographic projects. The authors, who are psychoanalysts and psychotherapists, ethnographers, and political scientists, present anthropological work based on psychoanalysis. They consider the realities of the human condition and specific subjects such as cultural differences and psychoanalysis, human intersubjective relations among the Iatmul people of Papua New Guinea, and the father-son relationship among the Yagwoia people there. Other topics are Parintin shamanism, the Yaka people of the southwestern Congo, twentieth century Western psychiatric and psychoanalytic outlooks on mental health, the negative and the unconscious, and the dynamics of the religious experience. Both subjects and names are indexed.

PRODUCTION, INDUSTRY, COMMERCE

HG1 2006-932844 978-0-7619-4922-0

Using software in qualitative research; a step-by-step guide.

Lewins, Ann and Christina Silver.

Sage Publications, ©2007 288 p. \$115.00

Drawing from their own work and that of others in the Computer Assisted Qualitative Data Analysis Networking Project, Lewins and Silver offer advice to researchers in the social sciences on choosing and using software packages for analyzing qualitative data. They emphasize principles and methods of working with the type of software, rather than detailing the features of any particular package. An appendix however, summarizes features and functions of seven packages.

HB171 2006-000507 1-84593-127-0

An introduction to economics; concepts for students of agriculture and the rural sector, 3d ed.

Hill, Berkeley.

CABI Publishing, ©2006 294 p. \$70.00 (pa)

This undergraduate text, written for those studying such topics as agriculture and the food industry, gives concise answers to questions ranging from the effects of domestic tax policy to the impact of international tariffs. Hill (agriculture, U. of London) updates this edition to include questions raised by increased involvement in world markets. He also covers the basic concepts of economics, consumer choice and the behavior of individuals, the laws of demand and supply, markets and competition, production economics, theories and practices of distribution, market failure and the problems of using the market to allocate resources, macroeconomics, international trade, and the effects of government policy for agricultural and rural areas. Hill also provides essay questions and chapter exercises with suggested answers.

HC79 2006-100583 978-0-7425-4699-8

Environmental economics; a critique of benefit-cost analysis.

Graves, Philip E.

Rowman & Littlefield, ©2007 187 p. \$24.95 (pa)

After presenting the optimistic scenario for the usefulness of cost-benefit analysis in environmental economics, Graves (economics, U. of Colorado at Boulder) outlines some of its deficiencies. He discusses "missing markets" issues related to externalities, public goods, and property rights; theoretical "demand revelation" and "supply revelation" problems; and a number of practical implementation problems, including cost estimation of environmental control, political and jurisdictional problems, and problems with the different approaches for the valuation of benefits of environmental policies.

Reference & Research Book News cites high-level books in the humanities and social sciences. Write or call Book News Inc. for a sample copy.

Sustainable development and planning III; proceedings; 2v.

International Conference on Sustainable Development and Planning (3d: 2007: Algarve, Portugal) Ed. by A. Kungolos et al. (WIT transactions on ecology and the environment)

WIT Press, ©2007 490 p. \$595.00

This two-volume set contains 101 scientific papers from an April 2007 international conference addressing the subjects of sustainable development and regional planning. The editors (of the U. of Thessaly in Greece and the Wessex Institute of Technology in the UK) have organized the papers according to the following topics: regional planning; city planning; rural development; environmental impact assessment; environmental management; environmental legislation and policy; ecosystems analysis, protection, and remediation; social and cultural issues; environmental economics; urban landscapes; transport issues; resources management; waste management; and sustainable tourism. Each of these broad topics receives about equal attention. A few examples of specific topics discussed include urban and regional typologies in relation to self-sufficiency strategies, facilitating land use forecasting in planning agencies, specification of urban planning regulation in a sustainable city, authenticity versus hybridity in rural Greece, assessment of technological structures' environmental impact and risk, priority setting in old pollution abatement, zoning protection models and eco-development areas in Greece, rehabilitation of traditional adobe constructions in Portugal, the potential of cultural and eco-tourism in North East India, sustainable reclamation of industrial areas in urban landscapes, and attempts towards sustainable motorway development in Greece. The US office of WIT Press is Computational Mechanics.

HC440 92-1-120487-9

State of the environment in Asia and the Pacific 2005.

Title main entry. Economic and Social Commission for Asia and the Pacific.

United Nations Publications, ©2006 332 p. \$75.00 (pa)

This report bridges the gap in the dialogue between those who advocate for improved environmental protection in the region and those who advocate for economic growth. Material is in sections on regional perspectives, the relationship between economic growth patterns and environmental degradation, progress in achieving the Millennium Development Goal 7, and the most critical environmental pressures in various subregions. The report's readership includes those in government, the private sector, civil society organizations, and policy research institutions who are concerned about sustainable development in Asia and the Pacific. Color maps and charts are included. The report lacks a subject index.

HD30 2006-031351 978-1-59904-393-7

Emerging e-collaboration concepts and applications.

Title main entry. Ed. by Ned Kock.

CyberTech Publishing, ©2007 316 p. \$94.95

Collaboration using electronic technologies by people working to accomplish a common task is addressed in 15 studies largely based on articles recently published in the *International Journal of e-Collaboration*. The topics include action research and its use in electronic collaboration inquiry, the effects of social proximity on social information processing, and propositions for cognitive support. CyberTech Publishing is an imprint of Idea Group Publishing.

HD30 2007-007279 978-1-59140-887-1

Enterprise architecture and integration; methods, implementation, and technologies.

Title main entry. Ed. by Wing Lam and Venky Shankararaman.

(Premier reference source)
Information Science Reference, ©2007 344 p. \$132.00

The problem of creating scalable and economical integration of one's information technology systems may be best addressed, believe Lam (U21 Global, Singapore) and Shankararaman (Singapore Management U.), by enterprise application integration tools that have evolved from message oriented middleware tools and generally consist of three components: an integration broker that serves as hub for intrasystem communication, a set of adaptors that enable different systems to interface with the integration broker, and an underlying communications infrastructure (such as a reliable high speed network) which enables systems to communicate using a variety of different protocols. In addition to describing these technologies and their applications, the 18 papers they present in this volume address connections of these tools to business process management and to within-organization strategic direction and also include case studies of enterprise integration.

- HD30 2006-005898 978-1-84064-687-0
The international handbook on environmental technology management.
 Title main entry. Ed. by Dora Marinova et al. (Elgar original reference)
Edward Elgar Publishing, ©2006 575 p. \$255.00
 Believing that the move towards a more sustainable society requires businesses to make conscious choices in regards to environmentally transformative technologies, the editors (all of Murdoch U., Australia) present 36 papers examining issues related to the management of environmental technology. Opening chapters address recent innovations in environmental technology policy thinking, including cradle-to-cradle product design, user-producer interaction as a source of learning, Australian examples of cleaner production and eco-efficiency, sustainable strategies towards human resources, and innovation impacts of environmental polices. Subsequent chapters explore recent changes environmental technology management business practices, including the integration of human and ecological factors, green marketing strategies, eco-management of sustainable tourism, and measuring productivity gains from environmental technology improvements. A final set of chapters present case studies in new technologies for the environment.
- HD57 2007-929136 978-0-7695-2913-4
E-commerce technology/ enterprise computing, e-commerce, and e-services; proceedings.
 Conference on e-Commerce Technology (9th) / Conference on Enterprise Computing, e-Commerce and e-Service (4th: 2007: Tokyo, Japan)
Computer Society Press, ©2007 709 p. \$231.00 (pa)
 Fifty-nine papers from the combined July 2007 conference report on advances in the state of the art and practice of e-commerce and Web-based information systems, and identify emerging research topics in the field. Most papers are related to the infrastructure issues and enabling technologies that facilitate dynamic e-business and Web-based information systems. Material is organized in sections on e-commerce applications, trading, marketing, business modeling, document management, auction and dynamic pricing, enterprise computing, and Web services for electronic commerce. There is no subject index.
- HD69 2007-017489 978-0-7494-4984-1
The handbook of project management; a practical guide to effective policies, techniques and processes, 2d ed.
 Young, Trevor L.
Kogan Page Ltd., ©2007 295 p. \$55.00 (pa)
 This guide for project managers examines the program and project environment and describes management processes for defining, planning, and launching a project, executing project work, and closing the project. There is also a brief chapter on selecting and using a software program, plus a glossary of terms. This revised second edition contains a new CD-ROM with tools, templates, and procedures that support the project management methodology described in the book. The audience for the book includes those starting a new project, wishing to acquire new skills, and training others in project management skills. The author is a consultant specializing in program management.
- HD1691 2006-921383 978-1-84339-756-4
Moving toward sustainable water resources management; a framework and guidelines for implementation, technical report.
 Thornton, Kent W. et al.
Water Environment Research Fdn., ©2006 — p. \$206.00 (pa)
 The result of a research project that gathered scattered information on the management of sustainable water resource management (SWRM), this final report includes information on hydrology, engineering and ecology as well as complete guidelines for implementation of the authors' recommendations. It builds a framework of these significant elements of SWRM as well as the supply of available water, water use, economy, the rights and desires of the society, laws and regulations, policies, institutional constructs, monitoring and assessment, principals of adaptive management, and management tools such as quantity, quality and conservation. This report also includes full case studies from SWRM applications in Arizona and Pennsylvania and a complete list of recommendations.
- HD1691 978-1-84564-074-3
Water resources management IV; proceedings.
 International Conference on Water Resources Management (4th: 2007: Kos, Greece) Ed. by C.A. Brebbia and A. Kungolos. (WIT transactions on ecology and the environment; v.103)
WIT Press, ©2007 699 p. \$465.00
 Sixty-four papers from the May 2007 conference present recent technological and scientific developments associated with the management of surface and sub-surface water resources. Several of the contributions explore different approaches to monitoring water quality and modeling regional water demand, rainwater runoff, and sediment transport. Other topics include oxidation processes for the remediation of PCP contaminated wastewaters, water transfer from Basilicata to Puglia, water pollution legislation in Iran, and the effect of subsurface amendments and drip irrigation on tomato growth. No subject index is provided. The US office of WIT Press is Computational Mechanics.
- HD1714 978-1-84339-141-8
Charging for irrigation services guidelines for practitioners.
 Steenbergen, Frank van et al.
IWA Publishing, ©2007 61+ p. \$100.00 (pa)
 Most of us are just self-centered enough to believe that human beings drink the majority of fresh water, but in fact irrigation is the dominant consumer of fresh water world-wide. As a result countries without extensive water supplies face shortages and must make difficult decisions about competing demands while also lacking sufficient financial and other resources to sustain operations and perform necessary maintenance. Based on practical experience as well as theory, this gives policymakers and operators guidelines to assess conditions, set strategies and provide equitable services, covering the policy environment, setting objectives for irrigation service charges, determining the basis for irrigation charging, quantifying the charges, and implementing an irrigation charge system. Case studies and examples come from Mexico, Eastern Europe, Macedonia, Australia, Turkey and Pakistan. US distribution by BookMasters.
- HD1920 2005-035166 1-84593-114-9
The common agricultural policy and organic farming.
 Lynggaard, K.
CABI Publishing, ©2006 223 p. \$100.00
 Although one of the more stable policy fields of the European Union, the Common Agricultural Policy (CAP) has encountered disharmony in matters relating to organic farming. This volume describes CAP and the issues that have caused institutional change at the ideological and practical levels, including interlinked developments at various levels of negotiation, public interest, principal-agent relationships, and eclectic approaches to policy making. The author focuses on the consequential changes and the analytical implications of a discursive institutional approach while describing the evolution of CAP from 1968 to 2005, including events and shifts in attitude connected with the entrepreneurial nature of organic farming. He closes with evaluations of how change has affected the CAP and its work in the EU. Distributed by the Oxford U. Press.
- HD4461 1-58321-496-8
2006 water and wastewater rate survey.
 Title main entry. Ed. by American Water Works Association/ Raftelis Financial Consulting.
American Water Works Assn., ©2007 88 p. \$143.00 (pa)
 The seven exhibits prepared for this report cite the service population, number of accounts, ownership, daily gallons sold, capacity, capital needs, balance sheet, and monthly rates for 230 water utilities and 164 wastewater utilities. The utilities are arranged into three groups from largest to smallest for comparison. An opening chapter analyzes interesting findings, pricing trends, rate structures, billing cycles, conservation efforts, production ratios, capital costs, and affordability. Twenty-three colorful charts of monthly charges and population served by region, billing frequency, and rate structure round out the survey.

- HD9502 978-92-807-2797-5
Energying cleaner production; a guide for trainers. (CD-ROM included)
 United Nations Environment Programme Division of Technology, Industry and Economics.
UN Environment Programme, ©2007 74 p. \$30.00 (pa)
 This book/CD-ROM package contains two training courses. A Management Course for company managers outlines an approach for improving energy efficiency, gives tips on creating more effective national policies, details mechanisms for financing projects, and overviews the Clean Development Mechanisms of the Kyoto Protocol. A Technical Course provides company staff with detailed knowledge about energy equipment, such as boilers and electric motors, and trains them for performance assessment and identification of cost-effective energy efficiency opportunities. Both courses are designed to be given by cleaner production centers, or similar organizations, to industry (company management and staff) and people working with industry, such as industry associations, consultants, NGOs, government agencies, research institutes, and academic institutions. The guide provides objectives and target audiences for each course, course agendas, trainer requirements, and detailed instructions for each session, plus notes on evaluating the course. The CD-ROM contains the text of the book, plus agendas, evaluation forms, and material for training sessions, including PowerPoint presentations, background reports, workshop exercises, and quizzes.
- HD9502 978-92-1-061222-7
Energy statistics yearbook, 2004.
 Title main entry. Department of Economic and Social Affairs.
United Nations Publications, ©2006 569 p. \$120.00
 Compiled annually by the UN's Statistics Division, the *Energy Statistics Yearbook* provides a global framework of comparable data on long-term trends in the supply of (mainly commercial) primary and secondary forms of energy. Data for each type of fuel as well as aggregate data for the total mix of fuels are presented by country and then summarized into world and regional totals. The tables offer basic information on production, trade, stock changes, bunkers, and consumption. All material is presented in both English and French.
- HD9673 2007-386252 0-8020-9180-6
The illusive trade-off; intellectual property rights, innovation systems, and Egypt's pharmaceutical industry.
 Abdelgafar, Basma I. (Studies in comparative political economy and public policy; 27)
U. of Toronto Press, ©2006 229 p. \$50.00
 Bioethics researcher Abdelgafar (Carleton U. and U. of Toronto) analyzes how TRIPS, the World Trade Organization's agreement on intellectual property, impacts the pharmaceutical industry and public health sector in Egypt. She argues that there is no robust method for determining the appropriate balance between innovation and technological diffusion, that conventional economic models have failed to establish positive links between strong patents and development or investment, and that understanding the implications of stronger intellectual property rights for pharmaceutical industries requires examining national systems of innovation.
- HD9980 2006-027706 978-1-59904-180-3
Enterprise service computing; from concept to deployment.
 Title main entry. Ed. by Robin G. Qiu.
Idea Group Publishing, ©2007 426 p. \$94.95
 Qiu (information science, Pennsylvania State U.) compiles 15 chapters for students and professionals working in the field of enterprise service computing. The volume is organized into sections covering the life cycle of enterprise service computing's development: business aspects; requirements; modeling, design methods, and methodologies; technologies; formal modeling, verification and validation; and best practices and deployment. Chapters do not need to be read in order, as each presents its own view of technology and business. Researchers and scholars in computers, information systems, and electronic engineering from around the world contributed to the volume.
- HD9999 2006-016541 1-59139-840-1
Science business; the promise, the reality, and the future of biotech.
 Pisano, Gary P.
Harvard Bus. School Press, ©2006 237 p. \$29.95
 Investigating the less than sterling economic performance of the biotechnology sector over the course of the past three decades, Pisano (business administration, Harvard Business School) argues that the industry is not structurally organized to handle the technologically-dictated functional requirements of risk management, integration, and learning. He argues that this is because a strong focus on monetizing intellectual property has impeded flows of information, led to fragmentation, and created a proliferation of new firms, all of which work against the previously named functional requirements. If biotech is to overcome this situation, it needs to realize that it can't just borrow business models, organizational strategies, and approaches from other high technology industries and must fashion a business strategy that is specifically tailored to the scientific requirements of biotech.
- HE11 978-1-84542-104-5
Transportation planning.
 Title main entry. Ed. by Yoram Shiftan et al. (Classics in planning; 7)
Edward Elgar Publishing, ©2007 642 p. \$290.00
 Shiftan (civil and environmental engineering, The Technion, Israel Institute of Technology) et al. compile 36 previously published papers on transportation planning. Papers examine methodological issues and policy questions and debates involving traffic assignment, developments in modeling travel behavior, economic evaluation, urban form and travel, the effect of modern telecommunications, pricing policy, and congestion, the private car and public transport. They range in date from 1958 to 2002 and are by authors from around the world who work in the fields of planning, engineering, mathematics, economics, transport studies, architecture, and other disciplines. The original pagination of the articles has been retained. Only a name index is provided.
- HE196 2007-399864 978-92-821-0108-7
Transport infrastructure charges and capacity choice; self-financing road maintenance and construction.
 Round Table on Transport Economics (135th: 2005: Paris, France)
OECD, ©2007 144 p. \$67.00 (pa)
 This report is presented as a contribution to a broader discussion of infrastructure charges and infrastructure capacity choice, particularly concentrating on charging policy in a fee-for-service perspective. Some attention is paid to the theoretical structure and incentive effects of various tax and quasi-price revenue sources, but the main concerns of the report are with the institutional arrangements for revenue collection and disbursement. The report identifies problems of developing countries in road finance, summarizes attempts of early road funds to ensure funding for roads, describes the development of second-generation road funds, and presents theoretical responses of the primary international macroeconomic agencies to these funds. The report lacks a subject index.
- HF5548 978-1-59047-508-9
CRM segmentation and clustering using SAS Enterprise Miner.
 Collica, Randall S.
SAS Institute, ©2007 289 p. \$51.95 (pa)
 In this book/CD-ROM package, Collica, a business and data mining analyst in the private sector, gives step-by-step examples and exercises to illustrate concepts of segmentation and clustering in the context of customer relationship management. After an introduction to basics of segmentation and clustering, he covers practical topics such as when and how to update models, and describes advanced techniques for product affinity clustering, missing data imputation, and text mining segmentation. While aimed at practicing professionals, the book can also be used in a data mining analytics course. Readers are assumed to have access to SAS Enterprise Miner, but no prior knowledge of data mining or SAS Enterprise Miner is required. The enclosed CD-ROM contains example SAS code, data sets, macros, and SAS Enterprise Miner templates.

HM151 1-889680-49-4

Science, technology, and social justice.

Title main entry. Ed. by John R. Rowan. (Social philosophy today; v.22) *Philosophy Documentation Ctr.*, ©2007 262 p. \$40.00 (pa)

Eighteen contributions from philosophers, legal theorists, political scientists, and social scientists address contemporary social issues relating to science, technology, and social justice. Some of the topics explored include the uses of technology for generating food; the effects of scientific advances on conceptions of human dignity; and the inadequacy of the Bush Administration's standards for interrogating foreign detainees. The volume consists of peer-reviewed papers that were presented at the 22nd International Social Philosophy Conference (August, 2005, Troy, New York). The material has been simultaneously co-published as *Social Philosophy Today*, Vol. 22.

HM851 2006-007261 978-0-19-531280-5

Computers, phones, and the Internet; domesticating information technology.

Title main entry. Ed. by Robert Kraut et al. (Oxford series in human-technology interaction; 2) *Oxford U. Press.*, ©2006 326 p. \$49.95 (pa)

North American and European researchers in psychology, communications, and sociology explore how the everyday use of mobile phones, computers, and the Internet is changing the lives of their users and those around them. Bringing empirical evidence to the debate, they address factors that have a direct domestic or community effect and that are potentially measurable (once the theoretical and methodological bugs are worked out, of course). Social change, home and family, community, teenage life, and social relationships are the dimensions considered.

HM851 2007-007277 978-1-59140-987-8

Encyclopedia of information ethics and security.

Title main entry. Ed. by Marian Quigley. *Information Science Reference.*, ©2008 661 p. \$325.00

Quigley (Monash University, Australia) present 95 essay-style entries on ethical and security issues related to the latest information technologies. The entries are written by 150 contributors from 19 different countries, and cover topics such as computer crime, information warfare, privacy, surveillance, intellectual property, cyber terrorism, censorship, artificial intelligence, and education. Entries provide an analysis of current developments in the featured topic, and discuss the social and moral implications of information and communications technologies. Each entry includes an index of key terms and definitions and a list of references. In total, about 725 key terms are defined. The reference will be used by students, researchers, and educators.

HQ1397 2007-397103 92-64-02537-5

Women in scientific careers; unleashing the potential.

Title main entry. *OECD.*, ©2006 228 p. \$60.00 (pa)

Twenty papers from a November 2005 workshop address the concentration of women in certain fields of scientific research and certain technology companies, and the low share of women among senior research staff and faculty in many countries. The contributors describe current national programs to promote women in scientific careers through coaching and mentoring, partnerships with employers, flexible work hours, specially funded academic chairs, targeted fellowships, and awareness-raising measures. No index is provided.

HT166 2006-287479 978-1-58603-650-8

Open design; a stakeholder-oriented approach in architecture, urban planning, and project management....

Title main entry. Ed. by Ruud Binnekamp et al. (Research in design series; v.1) *IOS Press.*, ©2006 389 p. \$100.00

Open Design bypasses classical theory of decision making and uses a linear programming model to capture the elements of group decision making in an attempt to develop a theory of architectural design. Especially as the theory evolves, it should also be applicable in other fields. This volume collects revised second editions of *Open Design; A Collaborative Approach to Architecture*, first published in 2000; *Open Design and Construct Management; Managing Complex Building Projects Through Synthesis of Stakeholders' Interests*, first published in 2001; and the first edition of *Open Design, Cases and Exercises*. Lex A. van Gunsteren and Peter-Paul van Loon wrote the first two, and Binnekamp joins them as co-author on the third (all: architecture, Delft U., the Netherlands).

HV551 2006-029119 978-1-59370-099-7

Common sense dictionary for first responders.

Fire, Frank L. *PennWell Books.*, ©2006 295 p. \$59.00 (pa)

This volume is a glossary of about 4,200 specialized terms useful for those who respond to emergency situations such as fires and hazardous materials incidents, and for environmentalists and safety engineers as well. Terms relate to electricity, general science, hazardous materials, chemistry, the environment, firefighting, EMS, the material safety data sheet, plastics, protective clothing, radioactivity, shipping regulations, and transportation. The second section consists of a list of abbreviations and acronyms related to these topics. Fire is the author of other books on plastics and hazardous materials and a former teacher with extensive experience in the plastics industry.

HV687 2006-029868 978-0-7890-3511-0

Social work, health, and international development; compassion in social policy and practice; proceedings.

International Conference on Social Work in Health and Mental Health Care (4th: 2004: Quebec, Quebec) Ed. by Serge Dumont et al. *Haworth Pr.*, ©2007 289 p. \$70.00

Dumont and St-Onge (social work, Université Laval, Québec, Canada) present 17 papers (two addresses, three plenary speeches, and 13 articles) from the proceedings of the Fourth International Conference on Social Work and Health and Mental Health held in Québec in May 2004. The conference aimed to contribute toward the development of knowledge and practices in social work in health and mental health care within a solidarity enhancement perspective. The theme of the conference was "social work and the development of a more compassionate world; experiences and knowledge to share." Of the seven subthemes in the conference, included in here are compassion and solidarity, practices, aging, and HIV-AIDS. Within sections, individual papers cover topics such as ethics, HIV testing and behavior, service quality in health settings, culture, adherence to care, and practice development. Papers are by individuals working in social work and medical fields around the world. The volume has been co-published simultaneously as *Social Work in Health Care*, vol. 44, nos. 1/2 and 3, 2007.

HV687 2007-005713 978-1-933478-10-4

Teaching resources for end-of-life and palliative care courses.

Title main entry. Ed. by Ellen L. Csikai and Barbara Jones. *Lyceum Books.*, ©2007 324 p. \$33.95 (pa)

This volume is aimed at social work educators who wish to incorporate content dealing with end-of-life care issues into their instruction. It opens with a list of recommended primary textbooks and a list of supplemental sources. These are followed by assessment tools, classroom activities, assignments, course syllabi, and descriptions of specialty programs. Csikai teaches at the U. of Alabama, and Jones is affiliated with the U. of Texas at Austin.

HV689 2006-009509 978-0-471-69304-8

Social work in mental health; an evidence-based approach.

Title main entry. Ed. by Bruce A. Thyer and John S. Wodarski. *John Wiley & Sons.*, ©2007 592 p. \$75.00

Thyer (social work, Florida State U.) and Wodarski (social work, U. of Tennessee) offer a clearly organized and broad guide to the delivery of evidence-based care for social work professionals active in the field of mental health practice. They compile 23 chapters by contributors who work in social work, psychology, and psychiatry in the US and Canada. The book is organized around the conceptual framework of the *DSM-IV* and discusses definitions, and evidence-based assessment and intervention for mental retardation, autistic disorder, ADHD, conduct and oppositional defiant disorders, pica, alcohol and substance abuse, schizophrenia, and mood, anxiety, sexual, eating, and personality disorders. Both subjects and authors are indexed.

HV1451 2007-015562 978-1-929109-21-0

Days in the lives of gerontological social workers; 44 professionals tell stories from "real-life" social work practice with older adults.

Title main entry. Ed. by Linda May Grobman and Dara Bergel Bourassa.

White Hat Communications, ©2007 313 p. \$19.95 (pa)

Forty-four gerontological social workers from the US, Canada, and the UK describe their experiences in different settings, such as community work; in health care and nursing homes; with special populations, nontraditional methods and settings, and policy and macro practice; and from student, educator, and researcher perspectives. Possessing a variety of education levels, the social workers work in large and small agencies, private practice, and international situations. There is no index. Grobman has been a social worker in mental health and medical settings and publishes *The New Social Worker*. Bourassa is a professor of social work at Shippensburg U.

HV1553 2007-005548 0-8261-0244-1

The psychological & social impact of illness and disability, 5th ed.

Title main entry. Ed. by Arthur E. Dell Orto and Paul W. Power.

Springer Publishing Co., ©2007 736 p. \$85.00

This collection, which defines disability very broadly to include post-traumatic stress and normal aging, includes classic articles and discussion questions as well as new material on illness. With a few exceptions it concentrates on the needs of caregivers and those who seek to rehabilitate people with disabilities. Therefore articles cover such issues as definitions of disability and current or past models, shifts in expectations of care demanded by the disabled, perceptions of stages of adjustment to disability, differences in the experience of men and women, the difficulties in discerning the quality of life from outside disability, sexuality, methods of intervention and treatment to promote acceptance of a disability, family issues surrounding life and death, special resources such as assistive technology and spirituality, new applications of eugenics and euthanasia, and "quality aging." Includes exercises and narratives about disability, primarily by caregivers.

HV1559 2007-332247 0-7969-2137-7

Disability and social change; a South African agenda.

Title main entry. Ed. by Brian Watermeyer et al.

Human Sciences Res. Council, ©2006 417 p. \$32.95 (pa)

Criticizing the individual approach to the treatment of disabled people in South Africa and supporting the social model, contributors to this volume (who consist of disabled South Africans, educators, parents, linguists, psychologists, human-rights activists, health practitioners, academics, and government officials) consider the link between discrimination and economic and social issues. In the 27 essays, they address theoretical approaches and representations of disability in the country, governmental and civil society responses, education, poverty and social security, service provision, and human spaces in relation to disability. Watermeyer, a clinical psychologist, et al. assemble essays on the daily lives of disabled citizens as well as how physical environments, policies, practices, conventions, laws, beliefs, and culture reproduce the disadvantage of these individuals. Books from Human Sciences Research Council, based in South Africa, are distributed in the US by Independent Publishers Group.

HV1569 2006-050190 978-0-398-07708-2

Multicultural aspects of disabilities; a guide to understanding and assisting minorities in the rehabilitation process, 2d ed.

Bryan, Willie V.

C.C. Thomas, ©2007 336 p. \$69.95

Bryan's (health promotion sciences, U. of Oklahoma) text offers helping professionals insights into the need to incorporate cultural factors into the development of effective rehabilitation plans for minorities with disabilities, including people of color, women, and the elderly. The material is presented in four sections: culture and multiculturalism, disability, disabilities and multiculturalism, and helping. In addition to updating information throughout the text, the final section—helping—was added as a completely new component, focusing on methods of assisting minorities with disabilities. Topics addressed in this section include the helping relationship and one's own belief systems and motivation, individual therapies, and family counseling therapies. A new chapter on religion and diversity has also been added to the opening material on culture and multiculturalism.

HV1569 2006-926699 1-58603-623-8

Smart homes and beyond; proceedings.

International Conference on Smart Homes and Health Telematics (4th: 2006: Belfast, Northern Ireland). (Assistive technology research series; v.19)

IOS Press, ©2006 377 p. \$134.00

The annual conferences explore how Smart Houses and Health Telemetry can foster independent living and offer an enhanced quality of life for ageing and disabled people. The 2006 meeting emphasized promoting personal autonomy and extending the quality of life by considering smart services inside and outside of the home, among them smart home services, situation awareness, location-based services, and mobility of service delivery. Other topics include human-computer interaction, smart devices and robotics, and privacy. Only authors are indexed.

HV3000 2006-020067 978-1-84310-465-0

Palliative care, social work, and service users; making life possible.

Beresford, Peter et al.

Jessica Kingsley Pub., ©2007 268 p. \$45.00 (pa)

Unlike health service managers who focus more on bureaucracy than patients, Beresford (social policy, Brunel U., London) and UK colleagues emphasize the values that guide people in coping with loss and mortality. Treating these issues from the newer discipline of palliative care social work, they consider the historical/political contexts of independent hospice care, National Health Services, and user involvement in research. The authors report on their national research project on service users' experience with specialist palliative social work, arguing that such a participatory approach does not undermine traditional research validity and addressing why the specialty has been marginalized within social work and related fields. Methodological notes include the interview protocol.

HV4731 2006-028228 978-1-84593-215-2

Animal welfare and meat production, 2d ed.

Gregory, Neville G.

CABI Publishing, ©2007 299 p. \$65.00 (pa)

In this extension of his *Animal Welfare and Meat Science* (1998), Gregory (Royal Veterinary College, UK) takes into account moral concerns about meat production—without taking a stand on the practices he describes. He presents statistics and debates over evolving livestock and meat production practices globally, food safety, and "green movement" concerns over animal rights and genetically modified organisms. A chapter addresses animal welfare issues particular to developing countries, and a U.S. scientist offers guidelines for animal welfare audit programs. The author does not discuss kosher standards of humane slaughter. This edition has beefed up references and includes student assignments. Distributed by Oxford U. Press.

HV4915 2006-034333 978-1-55753-432-3

The sacrifice; how scientific experiments transform animals and people.

Birke, Lynda et al. (New directions in the human-animal bond)

Purdue University Press, ©2007 224 p. \$32.95 (pa)

Birke, Arluke, and Michael explore the ways in which the identities of scientists, the public, and the animals used in experiments construct and depend upon each other. Coverage includes an overview of biomedical research and laboratory animals—how different kinds of animals first entered the lab, and how that is tied up with cultural change, public expectations, and changes in scientific practices; how the human practitioners of science—the researchers and technicians—make sense of what they do, particularly within their own communities; and the "public relations" work of researchers, including how they argue their case to wider constituencies and participate in debates over animal experimentation. Academic but accessible to the interested general reader. The authors' credentials are not stated.

HV5801 978-92-1-048106-9

Competent national authorities under international drug control treaties; with introductory texts in Arabic, Chinese and Russian.

Title main entry.

United Nations Publications, ©2006 128 p. \$35.00 (pa)

The first part of this directory lists the name and address of national agencies empowered to issue certificates and authorizations for the import and export of narcotic drugs, while the second part identifies the ministry responsible for regulating national controls over precursor and essential chemicals for their manufacture. The index is provided in English, French, and Spanish.

- HV5809 2006-022743 1-60021-368-5
Trends in substance abuse research.
 Title main entry. Ed. by Cailin R. McKenna.
Nova Science Publishers, ©2007 234 p. \$129.00
 Substance abuse is introduced as a problem that now starts as early as elementary school. In eight chapters, international researchers discuss recent advances in experimental models of treatment approaches to opioid dependence, e.g., focusing on the mu-opioid receptor, and determining medications and adjuncts to safely attenuate drug demand. Heroin gets further attention regarding its detrimental renal and neurological effects, and naltrexone implants for treatment. Case studies examine a residential treatment program consistent with the Positive Youth Development Model, and social networks of chemically-dependent clients. Also paying attention to the abuse of legal drugs, a case is made for greater FDA oversight. The volume includes numerous summary tables. The editor's professional affiliation is not given.
- HV5825 978-92-1-048114-4
Psychotropic substances; statistics for 2005; assessments of annual medical and scientific requirements for substances in schedules II, III, and IV of the convention on psychotropic substances of 1971.
 Title main entry. International Narcotics Control Board.
United Nations Publications, ©2006 332 p. \$50.00 (pa)
 This technical report from the UN's International Narcotics Control Board presents statistical data on licitly manufactured psychotropic substances used for medical and scientific purposes. It compiles information that was submitted by governments who are parties to the 1971 Convention on Psychotropic Substances. For the 2005 report, introductory notes have been added before each statistical table. All of the material is presented first in English, and then in French and Spanish.
- HV6115 2006-049390 1-4200-4331-5
Biological influences on criminal behavior.
 Anderson, Gail S.
CRC / Taylor & Francis, ©2007 315 p. \$89.95
 Anderson (criminology, Simon Fraser University) explains the basic concepts of natural selection, behavior theory, and genetics that may apply to current criminal research. Never suggesting crime can be blamed on biology, this undergraduate textbook methodically surveys the results of recent studies on twins and adoption, hormones, fetal development, brain chemistry, structural brain imaging, diet, and toxins.
- HV6322 978-0-7734-5502-3
The Anglo-American biomedical antecedents of Nazi crimes; an historical analysis of racism, nationalism, eugenics and genocide.
 Baron, Jeremy Hugh.
Edwin Mellen Pr., ©2007 224 p. \$109.95
 After a career of biomedical clinical and academic posts in London hospitals, Baron now holds honorary posts (New York U. and Imperial College, London) and devotes his attention to bioethics and social responsibility. Here he traces the origins or antecedents of 10 well documented crimes of the Nazi regime to the philosophy, biology, and medicine in Britain and the US primarily during the 19th century. For each, he begins with the Anglo-American origins and follows thinking and practices to the Nazis, then he considers how much of such practices were specifically Nazi and how much characteristically German.
- HV8827 0-8031-4493-8
ASTM standards on detention and correctional facilities 2006, 2d ed.
 Title main entry.
ASTM International, ©2006 221 p. \$89.00 (pa)
 This reference for design and construction professionals, security consultants, and other practitioners presents ASTM standards relating to correctional facilities for adults and juveniles. These standards address security walls, doors, vision systems, glazing, locks, hinges, sliding door devices, security control systems, grilles, tool resistant bars, chain link fencing, steel bunks, and cushioning material. The volume also contains the ANSI accredited standard specifications for detention security hollow metal doors and frames. B&w diagrams accompany the text.
- HV9067 978-1-905541-01-0
Working with children and young people who sexually abuse; taking the field forward.
 Title main entry. Ed. by Martin C. Calder.
Russell House Publishing, ©2007 302 p. \$99.95 (pa)
 In this fourth volume on the subject edited by consultant Calder, he and his contributors continue to assemble the jigsaw puzzle that working with children and young people who sexually abuse has become. The topics here include issues of diversity amongst those whose behavior is sexually harmful, including those with learning disabilities and special needs, the practice of using topologies for individual assessment and treatment, strategies to reduce risk and promote strengths, personality disorders as a component of abusive behaviors, the relationship between deviant arousal and recidivism, family work, risk assessment and prediction, empirically guided practice, attachment theory, Internet and new technology-related offenders, restorative justice, social responsibility theory, and integrated group work for those with diverse needs. Distributed in the US by ISBS.
- JX1974 978-3-527-40690-6
Joseph Rotblat; visionary for peace.
 Title main entry. Ed. by Reiner Braun et al.
Wiley-VCH, ©2007 355 p. \$45.00
 His family was so poor he originally trained to be a domestic electrician. He worked his way through the university system in Poland and became a leading authority in physics, particularly nuclear physics. Knowing what nuclear fallout did, he was committed to peace, a mover shaker along with Bertrand Russell and a gaggle of Nobel Laureates and laureates-to-be in the extremely influential Pugwash Conferences on Science and World Affairs, named after the town in Nova Scotia they could all afford (in terms of time as well as money) to gather in at the same time. He joined the ranks of the laureates with the Nobel Peace Prize in 1995. He lived to be 96. He was adored. Each of the brilliant contributions to this collection of articles about Rotblat's life and legacy reflects his light, and the authors range from Rotblat himself to Mohammed ElBaradei, Mikhail Gorbachev and Martin Reese.
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- LAW**
- K212 2006-937405 978-1-58603-698-0
Legal knowledge and information systems; proceedings.
 JURIX 2006 (19th: 2006: Paris, France) Ed. by Tom M. van Engers.
 (Frontiers in artificial intelligence and applications; v.152)
IOS Press, ©2006 179 p. \$113.00
 These proceedings include a collection of papers from the December 2006 conference, which bridges the gap between the needs of the legal profession and the current capabilities of technology. The topics here include applications and issues such as representations of persuasive argument, anchored narratives in reasoning about evidence, presumptions about the burden of proof, modeling state intervention in cases of conflicting interest, automated detection of reference structures, improved legal document summarization, the end of multiple and complex citations, normative systems, an ontology of basic legal concepts, discordance detection, personal injury, translation of languages, and software that helps lawyers build cases.
- K3240 978-1-84619-201-2
The global human right to health; dream or possibility?
 MacDonald, Théodore H.
Radcliffe Publishing, ©2007 219 p. \$59.95 (pa)
 The United Nations Charter and Declaration of Human Rights both say that health is a basic human right, says MacDonald (human rights and social justice, London Metropolitan U.), but the UN is divided on the issue now because the World Bank, the International Monetary Fund, and the World Trade Organization are also UN agencies and are devoted to the neo-liberal principle that private profit trumps all other considerations. He realized that working toward primary health care for all people cannot begin unless eight of the Millennium Development Goals are realized, so closely scrutinizes them and progress toward meeting them. Distributed in the US by BookMasters.

- K3671 2007-358235 92-0-105506-4
Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management.
 Title main entry. (IAEA international law series; no.1)
 IAEA, ©2006 125 p. \$60.00 (pa)
 The Convention met in September 1997 to set international standards for handling spent fuel and radioactive waste that either results from civilian nuclear reactors and applications, that is transferred from military and defense programs permanently to civilian programs to be managed exclusively by them, or that is otherwise declared to be spent fuel or radioactive waste for the purpose of the Convention. Official records and other relevant documents relating to the negotiations at the Convention are presented here. The Convention came into effect in June 2001. There is no index.
- KD1269 978-0-86341-490-9
Intellectual property rights for engineers, 2d ed.
 Irish, Vivien (IEE management of technology series; 22)
 IEE, ©2005 208 p. \$44.00
 Intended for use by UK engineers but useful for anyone doing business involving intellectual property (IP) and engineering there, this edition sorts through the latest in how the law applies to the complexities of software, hardware, and other fields of engineering. With many examples from the industry, IP expert Irish clearly defines both the "automatic" and "intentional" aspects of IP, including copyright, individual rights in designs, patents, and trademarks, explains what "confidential information" really means according to law, and, in what is probably the chapter most engineers will read first, the IP rights of employees. She also describes the rules of unfair competition, licensing and litigation, and basic management of IP rights. Distributed in the US by Books International.
- KE1679 978-0-7727-8620-3
Greener pastures; decentralizing the regulation of agricultural pollution.
 Brubaker, Elizabeth.
 U. of Toronto Press, ©2007 153 p. \$19.95 (pa)
 Brubaker chronicles a gradual centralization of control over agricultural pollution in Canada from the 1970s to the present, documents the environmental and social costs associated with the centralization, and suggests caution regarding further centralizing measures. She proposes a regulatory regime that respects the principle of subsidiarity, placing decision making as close as possible to the affected citizens, as the best way to make regulation reflect the needs and values of the individuals and communities who are impacted by the pollution.
- KF390 2006-031434 0-7355-5736-5
Cyberspace law; cases and materials, 2d ed.
 Ku, Raymond S. R. and Jacqueline D. Lipton.
 Aspen Publishers, Inc., ©2006 655 p. \$115.00
 Ku and Lipton (both law, Case Western U.) update their 2002 casebook for law students analyzing law involving cyberspace as a separate field and several specific issues that arise in it, among them freedom of expression on the Internet, intellectual and other property rights, and attempts to order cyberspace privately. They focus on the regulation of information rather than technology.
- KF2915 2006-102484 978-1-4200-4556-7
Essentials of law and ethics for pharmacy technicians, 2d ed.
 Strandberg, Kenneth M. (CRC Press pharmacy education series)
 CRC / Taylor & Francis, ©2007 196 p. \$49.95 (pa)
 There are plenty of ethics textbooks for pharmacy students; but for pharmacy technicians the information is presented haphazardly in texts on other subjects, and few programs offer a course devoted to ethics. Strandberg (pharmacy technician program, North Dakota State College of Science, Wahpeton) combines legal and ethical issues that will be important for future technicians to know.
- KF3133 2006-033073 978-1-59031-761-7
Biotechnology and the law.
 Title main entry. Ed. by Hugh B. Wellons and Eileen Smith Ewing.
 American Bar Association, ©2007 957 p. \$189.95 (pa)
 Legal experts specializing in biotechnology law, intellectual property, patent licensing, and related areas present a clearly written review of multiple aspects of the latest wave of better living through science and its legal ramifications. Following a primer defining biotechnology and the life cycle and regulation of biotech companies, contributors treat issues in obtaining patents, innovation financing and management, technology creation and transfer, Federal regulation regarding research, product approval, and post-approval marketing; international regulation; patient privacy; medical reimbursement; and last but not least, litigation. The final chapter lists biotechnology resources worldwide; key U.S. Federal acts, cases, and agencies; and state laws. The volume also includes a glossary, highlighted legal practice points, and sample agreements.
- KF3821 2006-033905 978-0-8036-1730-8
Medical law, ethics, & bioethics; for health professions, 6th ed.
 Lewis, Marcia (Marti) and Carol D. Tamparo.
 F.A. Davis, ©2007 268 p. \$31.95 (pa)
 In this update of the 2002 edition, Lewis (medical assisting, Olympic College, Bremerton, Washington) and Tamparo (business and allied health, Lake Washington Technical College, Kirkland) continue to emphasize the ambulatory care setting. Asking health professionals how they would you feel if their decisions were made public, chapters include vignettes, an "in the news" feature, and reflection and review exercises. Appendices contain codes of ethics and sample legal documents for choices about health care, life, and death. Updates are available on a companion website.
- KF5709 2006-029316 0-470-10870-3
Pocket guide to the ADA; American Disabilities Act accessibility guidelines for buildings and facilities, 3d ed.
 Title main entry. Ed. by Evan Terry Associates, P.C.
 John Wiley & Sons, ©2007 179 p. \$30.00
 This pocket size (4.5x8.5") guide helps readers understand the facilities requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG). It covers special requirements for public accommodations, commercial facilities, restaurants, medical care facilities, libraries, lodging, and transportation facilities. This third edition is updated to reflect current legislation. Evan Terry Associates, P.C., is an architectural firm specializing in the access requirements of the Americans with Disabilities Act.
- KF8925 2006-033072 978-1-59031-734-1
Toxic tort litigation.
 Title main entry. Ed. by D. Alan Rudlin.
 American Bar Association, ©2007 492 p. \$149.95 (pa)
 Opening his introduction with a hypothetical scenario in which a lawyer's corporate client is inquiring about what to do about a train crash that has spilled the corporation's toxic chemicals that are now sickening members of the nearby community, a state court case has been brought that charges that one of the corporation's chemical plants has been causing severe respiratory problems in neighboring environs, and in a different trial a "transport" expert is prepared to testify that another local plant's dump site is contaminating neighbors' water wells, Rudlin (a partner with the Product Liability and Mass Tort Practice Group at Hunton & Williams LLP) declares that it's all in a day's work for the toxic tort lawyer in the United States. Together with a number of collaborators, he provides guidance for such lawyers, offering chapters that discuss theories of liability and damages in toxic tort cases, defenses to toxic tort cases, the use of scientific and medical evidence in toxic tort litigation, causation and the use of experts in toxic tort cases, case strategy and trial management issues, settlement considerations, trends in toxic tort mold litigation, trends in toxic tort lead litigation, asbestos litigation, silica litigation, food product liability litigation, pharmaceutical product liability litigation, and methyl tertiary butyl ether (MTBE) cases.

KFU326 2007-003900 978-0-9792125-6-7

Law & mental health professionals, Utah.

Francis, Leslie Pickering and Linda F. Smith. (Law & mental health professionals series)

American Psychological Assn., ©2007 459 p. \$79.95

Organized by topic and extensively cross-referenced, this guide for professionals gives sufficient information to know what questions to ask and which Utah statutes to consult. General topics include legal credentialing for professionals ranging from physicians and counselors to school nurses, social workers and subdoctoral psychologists; business matters such as professional corporations, insurance reimbursement for services and determining hospital privileges; limitations on and liabilities for practice, including malpractice and subpoena of records; civil matters specific to families and juveniles, including competency to marry, foster care and education for special needs and gifted children; civil and criminal trial matters such as psychology autopsy and hypnosis; criminal matters such as competency to be sentenced and parole determination; and voluntary or involuntary receipt of state services. Includes tables of cases and statutes.

KJC6191 978-1-84619-093-3

Drugs in society; European perspectives.

Title main entry. Ed. by Jane Fountain and Dirk J. Korf.

Radcliffe Publishing, ©2007 136 p. \$39.95 (pa)

Europe has managed to standardize its approach to drug use, but some maintain this may not be serving the diverse needs of the European population. The contributors of these ten articles believe drug use is a dynamic social behavior requiring understanding of not only what is happening in the European drug world but also why various individuals choose to join it. They introduce the social meaning of drugs, then cover the changing perceptions of drugs and drug users in Portugal, changes in the marijuana markets of Copenhagen and Belgium, abuse of prescription drugs, and a new drug tradition in a diaspora situation. Contributors also cover the characteristics of users in exile, the role of culture in stigma (as in prisons), the dangers to diversification, control strategies and responses to the particular threats of methadone, and how to camouflage ethical questions in addiction research. Published by Radcliffe Publishing UK; US distribution is by Book Masters.

KJE6191 2006-932381 1-58603-668-8

Responsibilities in the efficient use of medicinal products.

Title main entry. Ed. by J. L. Valverde. (Pharmaceuticals policy and law; v.8)

IOS Press, ©2006 144 p. \$125.00 (pa)

No final solution to ensuring the quality of medicine is in sight, but the 15 articles here report on work that has been done, and explore facets that have yet to be worked out through interaction between governments, drug producers, physicians, and pharmacists. Representatives from these fields consider such topics as liability for medicinal products in Spain, the wholesale trade in named-patient medicines in the European Union, applying information and communications technologies to clinical activity, and the European Union's policy on medicinal products. There is no subject index.

EDUCATION

LB1060 2007-015176 978-1-57886-615-1

Learning and the brain; a comprehensive guide for educators, parents, and teachers.

Title main entry. Ed. by Sheryl Feinstein.

Rowman & Littlefield Education, ©2007 554 p. \$34.95 (pa)

With nearly 100 accessibly-written entries, a glossary and well-prepared bibliography, this A-Z guide to education, educational psychology, cognition, instruction and curriculum development will appeal to parents as well as teachers. Entries include concise lists of further reading and describe such topics as the aging brain, at-risk behavior, creativity, critical thinking, distributed intelligence, the brain in early childhood, gender differences, language acquisitions and disorders, moral development, nutrition, poverty, reading and fluency, self-esteem, spirituality, trauma and writing. The editors provide a helpful guide to related topics. Originally published in 2006 as *The Praeger Handbook of Learning and the Brain 2v.* in hardcover by Greenwood Press.

LB1585 2006-940074 978-1-4129-4611-7

Science for primary and early years; developing subject knowledge.

Devereux, Jane.

Sage Publications, ©2007 244 p. \$120.00

Devereux aims to help students develop their subject knowledge in science for when they teach in primary school and early years settings. The book addresses biology, physics, and chemistry and deals with ideas rather than areas of science, but works through broad topics and concepts. It uses the requirements for primary teaching from *Qualifying to Teach* (2006), The Training and Development Agency for Schools, and the knowledge needed to teach the Foundation Stage, Key Stage 1 and Key Stage 2 in the UK. Coverage is of the nature of science, skills and knowledge developed through science and scientific processes, understanding of particles, forces, and energy, and then applications of these ideas to specific topics: life and living processes, continuity and change, ecosystems, electricity and magnetism, Earth in space, and light and sound. The text draws heavily upon the subject knowledge chapters in *Open University Course-S624-Primary Teachers Learning Science*.

LB1585 2006-038027 0-309-10205-7

Taking science to school; learning and teaching science in grades K-8.

Title main entry. Ed. by Richard A. Duschl et al.

National Academies Press, ©2007 387 p. \$49.95

With an eye to professional development and public school reform, The National Research council offers K-12 science instructors a multidisciplinary look at how and when children best learn science and how to do it. Among other things, the 11 chapters explain that young children think both concretely and abstractly, a notion largely ignored in current curricula, and that students' implicit pre-schooling knowledge of the natural world plays a critical role in their science learning. The text concludes with recommendations for new directions in policy, practice, and research.

ARCHITECTURE

NA2840 2006-020553 978-0-471-48817-0

Architectural detailing; function, constructibility, aesthetics, 2d ed.

Allen, Edward et al.

John Wiley & Sons, ©2007 321 p. \$65.00 (pa)

Allen (formerly architecture, Yale U. and Massachusetts Institute of Technology) and Rand (architecture, North Carolina State U.) keep their attention on what adds up to make a great space while including sustainability and the International Building code to this edition. Their concise patterns control water and air leakage, control heat and sound flow, accommodate movement, provide structural support, allow for mechanical and electrical services, maintain health and safety, consider the life cycle of the building, and ensure construction through ease of assembly, efficient use of construction resources, and judicious use of aesthetically satisfying but forgiving details. The authors include applications of the detail patterns and advice on getting started using them.

PA3864 2007-295538 3-11-019140-7

Pseudo-Aristoteles (pseudo-Alexander), supplementa problematorum; a new edition of the Greek text with introduction and annotated translation.

Problemata Alexandri Aphrodisiei. Ed. by Sophia Kapetanaki and Robert W. Sharples. (Peripatoi; v.20)

Walter de Gruyter, ©2006 301 p. \$109.95

In 1857, *Problems* was published as a supplement to the four-volume series *Medical Puzzles and Physical Problems*, published over the first half of the 19th century and attributed to Alexander of Aphrodisias, the commentator of Aristotle who flourished about 200 BC. It contains 22 miscellaneous problems, some medical and some concerned with food, wine, and the like. As part of the substantial introduction, Kapetanaki and Sharples discuss the various manuscripts and the relationship between them thoroughly.

Q124 2007-295537 3-11-017966-0

The origin of the history of science in classical antiquity.Zhmod, Leonid. Trans. by Alexander Chernoglazov. (Peripatoi; v.19)
Walter de Gruyter, ©2006 331 p. \$118.95

The study of the history of science has grown dramatically from the rather faddish classicism of the eighteenth and nineteenth centuries to the rich discipline it is today, but its historiography of science has remained quiet. Zhmod points out that this is not at all surprising, as the study of the history of science has always been, properly, science. He begins what promises to be a new discipline by evaluating the period when science and history first met in antiquity, the first discoverers, the strange days of heurmatography, the theory and origin of medicine and the example of mathematics, the Platonic academy, the late fourth century Lyceum, the history of geometry from Eudemus of Rhodes, fragments and commentary on the history of arithmetic and the origin of number (here comes Eudemus again), the history of astronomy and a brief outline of the history of science after Eudemus.

Q125 2006-929619 1-58603-646-7

Science and technology policies for the anti-terrorism era; proceedings.NATO Advanced Research Workshop on Science and Technology Policies for the... (2004: Manchester, England) Ed. by Andrew D. James. (NATO science series, series V, Science and technology policy; v.51)
IOS Press, ©2006 191 p. \$144.00

This volume is the product of a September 2004 NATO Advanced Workshop directed by James (Police Research in Engineering, Science & Technology at the U. of Manchester, UK), which was held to "critically consider the science and technology policies necessary for defence against terrorism and other threats to security; to assess the priorities for governments, universities, national laboratories and industrial firms; to identify how governments and the science and technology community can most effectively work together to enhance our security; and to share the experiences of policy makers and policy analysts." Topics include the Israeli experience with research and development on scientific and technological applications to terrorism; detection and decontamination of chemical and biological agents; US perspectives on homeland security research and development; the Canadian research and technology initiative on chemical, biological, radiological, and nuclear threats; effective international cooperation in homeland security technology development; impacts of post-September 11th security policies on US science; the individual and collective roles scientists can play in strengthening international treaties; and national security, terrorism, and the control of life science research.

Q126 2006-052602 978-0-87169-965-7

Essays and reviews in history and history of science.Gillispie, Charles Coulston.
Am. Philosophical Society, ©2007 424 p. \$24.00 (pa)

Gillispie (history of science emeritus, Princeton U.) founded the undergraduate history of science program at Princeton in 1956. Here he has chosen 20 essays and reviews that he thinks most likely to retain a measure of enduring interest, and three referees for the American Philosophical Society agreed with him. Ranging from the 1940s to the 2000s, they discuss such matters as French science, historians and historians of science, and science and society.

Q127 2006-027772 1-59102-472-2

The future is now; science and technology policy in America since 1950.Marcus, Alan I. and Amy Sue Bix.
Humanity Books, ©2007 320 p. \$22.00 (pa)

Marcus (history, Mississippi State U.) and Bix (history, Iowa State U.) employ case studies and vignettes to chronologically illustrate the evolution of US federal science and technology policies from the Manhattan Project to develop the atomic bomb to the early years of the 21st century. They connect the development of policy directly to the vicissitudes of partisan politics and describe the evolution of a technocratic elite dependent on government and constantly striving to manipulate government to their own ends, if not always successfully.

Q127 2005-925128 1-58603-517-7

Modernisation of science policy and management approaches in Central and South East Europe; proceedings.NATO Advanced Training Course on Modernisation of Science Policy & Management... (2003: Ljubljana, Slovenia) Ed. by Edvard Kobal et al. (NATO science series; series V science and technology policy; v.48)
IOS Press, ©2005 199 p. \$126.00

The course, organized by the Slovenian Science Foundation, was designed to provide public administrators with knowledge and skills to overcome some of the problems facing them in science policy management. Science managers working to internationalize science could also find useful information. Presentations from the course are augmented with a few other studies that additionally illuminate the situation in Central and Southeast Europe. The overall themes are issues in science and technology policy, science and technology in nine specific countries and the region as a whole, and peer review and lobbying for research and development as part of management in science. There is no subject index.

Q141 2006-016769 0-8160-6385-0

Latinos in science, mathematics, and the professions.Newton, David E. (A to Z of Latino Americans)
Facts On File, Inc., ©2007 274 p. \$44.00

Formerly with the Salem State College in Massachusetts and the U. of San Francisco, Newton is the author of 400-plus textbooks, encyclopedias, resource books, research manuals, laboratory manuals, trade books, and other educational materials, including three other Facts on File texts. In this alphabetically arranged text, he profiles some 175 of the most important figures of the 20th century in the physical and social sciences and in the field of invention who have contributed to U.S. culture from the Spanish-speaking world. Each entry includes an introductory paragraph highlighting the individual's main achievements, a concise biographical profile detailing key events relating to his/her field of expertise, and a list of further readings. Illustrated with some 60 b&w photographs.

Q172 978-3-527-40484-1

Competing interactions and patterns in nanoworld.Vedmedenko, Elena Y.
Wiley-VCH, ©2007 202 p. \$150.00

Vedmedenko (applied physics, U. of Hamburg) writes for students as well as researchers with different professional backgrounds in this introduction to systems that display competing interactions, a situation that can significantly impact many aspects of nanoscience. She classifies phenomena by the type of competing interaction involved to better present the underlying principles and universal laws governing the behavior of various systems, covering the basics of self-competition, competition between a short-range and a long-range interaction, competition between interactions on a scale of similar length, interplay between anisotropies and inter-particle interactions, and dynamic self-organization. She provides comprehensive references for each topic. Vedmedenko's interdisciplinary approach and logical organization makes what is a very complex topic easy to follow, and the examples are useful for a variety of applications.

Q172 2006-027746 1-59102-458-7

Defending science—within reason; between scientism and cynicism.Haack, Susan.
Prometheus Books, ©2007 411 p. \$19.00 (pa)

Haack (humanities, philosophy, and law; U. of Miami) says her goal is not to add more fuel to the Science Wars, but to articulate a new perspective on what science is and does. She defends the pretension of science to proclaim how the world is, but in only a quite modest and qualified way, and within the boundaries of human cognitive capacities and limitations. She has added a new preface to the 2003 first edition.

- Q180 2006-934006 978-1-58603-680-5
Sharing knowledge across the Mediterranean area; towards a partnership for sustainable management of resources and the prevention of catastrophes.
 NATO Advanced Research Workshop on Sharing Knowledge Across the Mediterranean... (3d: 2005: Casablanca, Morocco) Ed. by Paul Fuageras et al. (NATO security through science series; v.12)
 IOS Press, ©2006 279 p. \$144.00
 This report includes material from a series of lectures held September 2005, in which participants described their research on opening and maintaining lines of contact, describing how they extended their original research area to include the Mediterranean, the novel and sustainable energies needed for development, international projects such as SESAME, food security and safety, water desalinization, participation of southern countries in international programs such as CERN, natural risks in the Mediterranean, and a fascinating article on the digital development divide between nations.
- Q180 978-0-8020-8853-6
Strategic science in the public interest; Canada's government laboratories and science-based agencies.
 Doern, G. Bruce and Jeffrey S. Kinder.
 U. of Toronto Press, ©2007 235 p. \$50.00
 Canada's approach to scientific research is not unique amongst developed nations. Its system of funding and otherwise supporting new basic science and applications is intended to provide the best research for the most Canadians, but often the "best research" is commercial and the "most Canadians" are powerful businesses and industries. Doern (public policy and administration, Carleton U.) and Kinder, a Ph.D. candidate in the same program, look closely at Canadian research facilities that investigate oil sands, environmental technologies, wildlife and mining and metals to see why they focus on work with immediate financial returns rather than on long-range projects more in line with public benefits. They show how federally-controlled funding tends to round off the edges of research and how using a middle-level approach that respects the diversity in public needs would better serve taxpayers, and how the system of Related Science Activities has shifted from its original intentions.
- Q181 2007-929169 978-0-7618-3795-4
Making science fair; how can we achieve equal opportunity for men and women in science?
 Fisher, Robert Leslie.
 Univ. Press of America, ©2007 114 p. \$26.00 (pa)
 The US has one of the lowest rates of female science professors in the world, with many developing nations far ahead. Of those few in the US, nearly all are white. Some parts of the US economic system, including the military, cannot sustain research or application projects due to the lack of new scientists beginning careers. Independent scholar Fisher has startling facts and figures and asserts that at least part of the problem in attracting and retaining new scientists is that women are openly discouraged in the classroom, in the lab, and in the boardroom. He finds that filling the "scientist gap" requires taking a hard look at universities that cater exclusively to white males and a "publish or perish" academic system in which having a female first name will guarantee you will perish.
- Q225 2006-032606 978-1-4051-3159-9
Peer review and manuscript management in scientific journals; guidelines for good practice.
 Hames, Irene.
 Blackwell Publishing, ©2007 293 p. \$39.95 (pa)
 Hames moved long ago from cell biology to scientific publishing, and is now the managing editor of *The Plant Journal*. Here she sets out good practice in having specialists who are not associated with the journal review submitted articles in their field, a process that can crucially affect the credibility and reputation of the journal. Among her topics are getting the process started, making decisions about reviewed manuscripts, online submission and review, taking care of reviewers, obligations and responsibilities of reviewers, and how to deal with misconduct.
- Q334 2007-274838 978-1-84540-070-5
Artificial consciousness.
 Title main entry. Ed. by Antonio Chella and Riccardo Manzotti.
 Imprint Academic, ©2007 284 p. \$34.90 (pa)
 Artificial intelligence being only a first step, engineers are now trying to develop artificial consciousness as experienced by humans, other mammals, and probably some other animals as well. Contributors identified only by name report on the struggle from such perspectives as depicting architecture for synthetic phenomenology, a rational and vision for machine consciousness in complex controllers, and the ensemble and the single mind. Perhaps artificial morality will be next. Distributed in the US by the Philosophy Documentation Center.
- Q334 2006-932182 1-58603-663-7
Artificial intelligence research and development; proceedings.
 International Conference of the Catalan Association for Artificial Intelligence (9th: 2006: Perpignan, France) Ed. by Monique Polit et al. (Frontiers in artificial intelligence and applications; v.146)
 IOS Press, ©2006 318 p. \$131.00 (pa)
 The editors (of the Laboratoire de Physique Appliquée et d'Automatique, U. of Perpignan Via Domitia, France and the Institute of Informatics and Applications, U. of Girona, Spain) present the 33 contributions to the October 2006 Catalan Association for Artificial Intelligence. The papers are organized according to the conference sessions: machine learning, reasoning, neural networks, computer vision, planning and robotics, and multiagent systems. Examples of specific topics include support vector machines for color adjustment in automotive base coat, optimal extension of error correcting output codes, coarse qualitative model of three dimensional orientation, Kohonen self-organizing maps and mass balance methods for the supervision of lowland river area, two-step tracking by parts using multiple kernels, solving the response time variability problem by means of metaheuristics, and designing a multi-agent system to simulate scenarios for decision-making in river basin systems.
- Q334 2006-930652 978-1-58603-652-2
Computational models of argument; proceedings.
 International Conference on Computational Models of Argument (1st: 2006: Liverpool) Ed. by Paul E. Dunner and Trevor J.M. Bench-Capon. (Frontiers in artificial intelligence and applications; v.144)
 IOS Press, ©2006 341 p. \$138.00
 These proceedings of the September 2006 conference include 28 papers presented. Topics include argument in agent systems, including building agents that plan and argue in a social context, applications, including argument-based machine learning in a medical domain, computational properties of argument, including complexity properties of restricted abstract argument systems, argumentation frameworks and themes, including evaluation and comparison criteria for extension-based argumentation, argumentation tools, including a new way to translate Wigmore diagrams, reasoning about action, including knowing when to bargain, and dialogues and decisions, including holding suspicion of a hidden agenda in persuasive argument. The editors include an author index and each article includes references.
- Q335 2006-929170 1-58603-639-4
Rob Milne; a tribute to a pioneering AI scientist, entrepreneur, and mountaineer.
 Title main entry. Ed. by Alan Bundy. (Frontiers in artificial intelligence and applications; v.139)
 IOS Press, ©2006 167 p. \$63.00
 Perhaps because he died attempting to summit Mount Everest, the editors (both of the School of Informatics, U. of Edinburgh, UK) have chosen to include discussion of Robert Milne's mountaineering activities in addition to his entrepreneurial activities with Intelligent Applications Ltd.) in this collection of 13 papers put together in his honor, but the real focus is on Milne's contributions to the world of artificial intelligence applications and related topics. Papers address model-based reasoning, applied computational humor and prospects for advertising, and artificial intelligence music applications. Combining the topics of mountaineering and artificial intelligence, one paper coauthored by Milne describes an application called I-Ex, for intelligent extreme expedition support.

Q335 978-0-7695-2836-6
Temporal representation and reasoning; proceedings.

Int'l Symposium on Temporal Representation and Reasoning (14th):
2007: Alicante, Spain)

Computer Society Press, ©2007 193 p. \$193.00 (pa)

These proceedings of the June 2007 symposium include reports from contributors working in diverse fields within the study of representing and reasoning about temporal phenomena, including artificial intelligence, linguistics, temporal/spatial databases and applications of temporal logic in computer science. Topics include temporalizing tractable description logic, relational temporal machines, a proposal for a temporal-to-temporal query language, automated natural deduction for propositional linear-time temporal logic, conceptual modeling of temporal clinical workflows, the equivalence of automation-based representations of time granularities, and a comparison of statistic and rule-induction learners for automatic tagging of time expression in English. This includes notes on the invited talks and also short and poster papers along with external references.

Q360 2007-005174 978-0-8108-5942-5
The phenomenon of information; a conceptual approach to information flow.

Pérez-Montoro, Mario. Trans. by Dick Edelstein.

Scarecrow Pr., ©2007 287 p. \$50.00 (pa)

Pérez-Montoro (information science, U. de Barcelona, Spain) endeavors to describe a theoretical definition of information flow that accounts for the necessary and sufficient conditions to conclude that a specific signal carries a particular informational content and also provides a description of the regularities or supporting information links that exemplify the property of reliability (and in some cases fallibility). He first analyzes the main ideas of the mathematical theory of communication, rejecting much but retaining its treatment of informational and communicational constraints. He then turns to philosopher Fred Dretske's analysis of the notion of information, again finding many deficiencies but arguing that the relational theory of meaning presented by philosophers Jon Barwise and John Perry resolves many of these problems, with the significant exception of the failure to satisfactorily explain the reliability and fallibility exhibited by the supporting regularities of information flow. This final deficiency is addressed by Pérez-Montoro's own "existential approach" to information flow.

MATH, COMPUTERS

QA1 978-0-88385-560-7
The harmony of the world; 75 years of *Mathematics magazine*.

Title main entry. Ed. by Gerald L. Alexanderson.

Mathematical Assn. of America, ©2007 287 p. \$55.95

In its early years, *Mathematics Magazine* included a "Teacher's Department," "Notes and News Department," "Book Review Department," "Problem Department," and "Humanism and History of Mathematics Department." Based on the selections presented by the editors of this volume (of Santa Clara U.), taken from the first 75 years of the magazine, it has maintained this broad focus on high school to graduate level mathematics up until the present time. The 37 pieces collected are presented in chronological order and include straight discussion of mathematical problems and proofs, biographical accounts of such figures as Leonhard Euler and Hypatia of Alexandria, a humorous piece "proving" the variability of pi over time, discussion of the centrality of mathematics in the history of Western thought, advice on how to teach mathematics in the classroom, and other varied materials.

QA3 2005-044024 0-8493-3743-7
Mathematical models and methods for real world systems.

Title main entry. Ed. by K.M. Furati et al. (Monographs and textbooks in pure and applied mathematics; 272)

Chapman & Hall/CRC, ©2006 455 p. \$161.96

Drawn from materials presented at a symposium of the International Congress of Industrial and Applied Mathematics, these articles focus on mathematics for technology, wavelet methods for real-world problems, classical and fractal methods for physical problems and trends in variational methods. Topics include the challenges anticipated in the next ten years, mathematical models for superconductors, wavelet frames and multi-resolution analysis, trends in wavelet applications, advanced data processes of meteorological issues, gradient catastrophe in heat propagation with second sound, acoustic waves in a perturbed layered ocean, chaos as described using MATLAB in the motion of a satellite under the influence of magnetic torque, convex objective functional for elliptic inverse problems, and convergence and the optimal choice of the relation parameter for a class of iterative methods.

QA8 2006-048633 978-1-56881-271-7
Experimental mathematics in action.

Title main entry. Ed. by David H. Bailey et al.

AK Peters Ltd., ©2007 322 p. \$49.00

The "action" in the title was only a few decades ago unthinkable to mathematicians. Computers may be useful to accountants and gamers, so the theory went, but real mathematicians do not touch them. With the coming of a new generation of mathematicians, however, has come the ubiquitous computer and all the mathematics software attached. Focusing on experimental mathematics and its next-generation link to computing, this text gives the young (or the newly young) mathematician reasons to learn to use a keyboard. It includes a nice section on "finding things" v. "proving things," sets of algorithms on such topics as Ramanujan-type elliptic series and roots of polynomials, and challenging material on inverse scattering, "strange" functions, random vectors and factoring integers, and a selection of integrals from a popular table. This includes exercises and answers for each chapter and a set of additional exercises for readers to explore.

QA8 2006-049700 978-0-691-12982-2
The mathematician's brain.

Ruelle, David.

Princeton U. Press, ©2007 160 p. \$22.95

If mathematicians ran the world, this extraordinary book would be the design document for a whole mathematics curriculum. Students taking geometry, for example, might still learn about the axioms of Euclidean geometry, but the subject would be placed in the context of the more mathematically sophisticated view of geometry as a group of symmetries. This is generally Ruelle's method: take a subject that is covered in elementary math classes and explain its context—the way professional mathematicians see it. So Euclidian geometry leads to projective and affine geometry, illuminated by Felix Klein's concept of the role of symmetry in geometry; and Cartesian coordinates leads to algebraic varieties. Ruelle uses these examples to explain some of the great themes of mathematics, such as generalization of problems, the simultaneous roles of formal axioms and human ideas, translation of problems into new forms to apply different tools, and so on. In the course of these explanations he also articulates ideas about philosophical questions such as the definition of mathematics, and the independent reality of mathematical concepts. Finally, the author shares anecdotes that are a combination of history and gossip about various famous mathematicians. Written with beautiful clarity, this book will give non-mathematicians a feel for how mathematicians think. Yet, for mathematicians, it is raised above "popularization" by the fact that it actually contains mathematical proofs and exercises, rather than merely talking about them. Ruell is one of the creators of chaos theory and is emeritus, mathematical physics, Institut des Hautes Etudes Scientifiques in France, and visiting professor at Rutgers U.

QA9 2007-060754 978-0-8218-4234-8
Recurrence and topology.

Alongi, John M. and Gail S. Nelson. (Graduate studies in mathematics; v.85)

American Mathematical Society, ©2007 221 p. \$45.00

Alongi (mathematics and computer science, Pomona College) and Nelson (mathematics, Carleton College) seek, along with Poisson and generations after him, what it means for a solution of a differential equation to be recurrent. Their approach develops increasingly more general topological modes of recurrence for dynamic situations beginning with fixed points and concluding with chain recurrent points. They include extensive examples as they cover flows, recurrent points, irreducible sets and test functions. They also include appendices on discrete dynamical systems, circle rotations and the Hausdorff metric and a range of exercises for each chapter.

QA11 2006-012064 1-4129-3937-2
Brain-compatible mathematics, 2d ed.

Ronis, Diane.

Corwin Press Inc., ©2007 174 p. \$32.95

Ronis sets out an approach for teaching mathematics that is compatible with what is known about how the human brain seeks meaning and relevance in its surroundings. For teachers at all grade and ability levels, but emphasizing elementary school, she describes project units and explains the objective and rationale for each. She uses rubrics, charts, and other tools to help make the ideas easy to implement. No date is noted for the first edition.

QA13 2007-922674 978-0-7618-3749-7
A history of mathematics education during the twentieth century.

Walmsley, Angela Lynn Evans.
Univ. Press of America, ©2007

78 p. \$17.95 (pa)

How did a satellite called "Sputnik" frighten the US into teaching mathematics differently in its elementary and secondary schools? How does the philosophy and pedagogy of today's math teachers compare with those of the 1930s? Mathematics education is subject to trends just as are other disciplines, and Walmsley (research methodology, Saint Louis U.) tracks those trends along with responses in the classroom across the century. She is particularly interested in the *Standards* movement and how it compares with previous methodologies, but she gives every decade its full due and describes in detail the contexts, philosophy, mathematical content, teacher education, pedagogy and assessments for each. The result is an interesting take on the cyclical nature of educational trends, particularly in such a discipline as mathematics where methods may vary but overall content tends to be stable.

QA13 2006-013310 1-4129-3841-4
Key concepts in mathematics; strengthening standards practice in grades 6-12, 2d ed.

McNamara, Timothy J.
Corwin Press Inc., ©2007

249 p. \$37.95

Aimed at classroom teachers in grades 6-12, this practical guide supplies standards-based lesson plans and hands-on activities that give students the opportunity to learn by "doing the math." The lessons are organized into ten chapters corresponding to the ten NCTM standards. Some of the lessons employ graphing calculator technology. McNamara is a mathematics consultant specializing in K-12 systemic improvement.

QA13 2007-012668 978-0-87353-599-1
Perspectives on the design and development of school mathematics curricula.

Title main entry. Ed. by Christian R. Hirsch.
Nat. Council/Teachers of Math, ©2007

199 p. \$29.99 (pa)

Twenty-eight American academics and researchers contribute 16 chapters reporting on 15 comprehensive curriculum development projects they were involved with, the majority funded by the National Science Foundation. The authors offer perspectives on the design principles that guided their work as well as insights into the challenges they faced and the barriers to their success. The text includes discussion about the design and development of *Standards*-based curricula for grades K-5, 6-8, and 9-12, and a synthesis of important elements of design and development that seem particularly promising or warrant further study. For a wide array of individuals concerned with mathematics curriculum development including faculty and students in graduate courses, mathematics coordinators and lead teachers, classroom teachers, present and future curriculum developers, researchers, and publishers.

QA22 2006-020255 1-59102-477-3
How mathematics happened; the first 50,000 years.

Rudman, Peter S.
Prometheus Books, ©2007

314 p. \$26.00

Rudman (physics, emeritus, Technion-Israel Institute of Technology) takes a rigorous but fun look back at the roots of mathematics, assuring us that mathematics did not come about as the result of a curse or sin. Probably. With exercises, examples, illustrations and some of the most elegant explanations around, he works through the concepts of number systems, pattern recognition and counting, applications in hunter-gatherer cultures, written numbers, ancient forays into arithmetic (check out the fractions), and the conspiracy of Pythagoras, Eratosthenes and Hippasus to require proof. He closes with a description of how we should teach mathematics based on the model of the ancient Greeks.

QA27 2006-052223 978-0-8218-4261-4
Golden years of Moscow mathematics, 2d ed.

Title main entry. Ed. by Smilka Zdravkovska and Peter L. Duren.
(History of mathematics; v.6)

American Mathematical Society, ©2007 306 p. \$59.00

Mathematicians who were based in Moscow remember the profession as it was practiced and taught during the Soviet era. Their perspectives include the Moscow school of the theory of functions during the 1930s, A. N. Kolmogorov (b. 1903), life and automorphic forms in the Soviet Union, and Soviet mathematics of the 1950s and 1960s. A new essay summarizes developments since the early 1990s when the first edition appeared. Only names are indexed.

QA29 2007-927658 978-0-88385-563-8
How Euler did it.

Sandifer, C. Edward. (Spectrum series)
Mathematical Assn. of America, ©2007

237 p. \$51.95

Sandifer (mathematics, Western Connecticut State U.) takes a suitably respectful but also jocose tone in this compilation of his 40 monthly chapters about the work of the Swiss mathematician and scientist Leonhard Euler, arguably the possessor of the best brain of the eighteenth century. Well-represented here are Euler's contributions to geometry, including his enhancements of Pythagoras, number theory, including his work on odd perfect numbers and amicable numbers, combinatorics, including his work on Venn diagrams and orthogonal matrices, and a full range of his work in analysis, one article of which shows how Euler discovered America. Sandifer includes the official list of Euler's top ten theorems and a number of period illustrations. This is published in commemoration of Euler's entrance into his fourth century.

QA37 2006-935209 978-0-495-01583-3
College mathematics for the managerial, life, and social sciences, 7th ed.

Tan, S.T.

Brooks/Cole Publishing, ©2008

1195 p. \$144.95

Tan (Stonehill College, Massachusetts) presents the seventh edition of his text demonstrating applications of finite mathematics and applied calculus for students in the managerial, life, and social sciences. Seventeen chapters cover topics including: systems of linear equations and matrices, algebraic and geometric approaches to linear programming, mathematics of finance, probability, functions and limits, the derivative and its applications, integration, and calculus of several variables. Updates include two new sections on linear programming and expanded coverage of Markov chains.

QA37 2006-925005 978-0-495-38427-4
Finite mathematics and applied calculus, 4th ed. (Instant Access included)

Waner, Stefan and Steven R. Costenoble.

Brooks/Cole Publishing, ©2007

1146+ p. \$137.95

This text is intended for a one- or two-term course for students majoring in business, the social sciences, or the liberal arts. To generate student interest and meet the needs of students who are often under-prepared for a traditional mathematics course, the text focuses on real-life applications, presents concepts intuitively, and employs an engaging and occasionally humorous writing style. This fourth edition can be used in various instruction paradigms, from settings incorporating no technology to computerized classrooms using several technologies. The text supports the use of TI-83/84 graphing calculators, Excel spreadsheets, and online utilities created especially for the text. This edition contains new content on game theory and logic, plus new exercises organized by skill level, and boxes on how real-life professionals use mathematics. The authors are affiliated with Hofstra University.

QA39 2007-060669 978-0-8218-3970-6
Categories in algebra, geometry, and mathematical physics; proceedings.

Workshop on Categories in Algebra, Geometry and Mathematical Physics (2005: Sydney, Australia) Ed. by Alexei Davydov et al. (Contemporary mathematics; v.431)

American Mathematical Society, ©2007 467 p. \$129.00 (pa)

These proceedings of the July 2005 conference and workshop include a significant number of papers commemorating the work of Ross Street. Topics include, rightly, the beginnings of category theory in Australia and higher gauge theory, the resolution of colored operads and rectification of homotopy algebras, simplicial monoids and Segal categories, split extension classifiers and centrality, Moore normalization and Dold-Kan theorems for semi-abelian categories, branched coverings, degenerate categories and bi-categories, abstract cellularization, centers of monoidal categories of functions, ribbon categories, topological and conformal field theory as Frobenius algebras, characterization of torsion theories in general categories, weak units and homotopy three-types, quasi-categories and Segal spaces, parking functions, the K-theory, quantum field theories, three dimensional monad theory, orientals and nerves of complicated Gray-categories. Australia should be proud.

QA43 2007-012792 978-0-525-95024-0

Poincaré's prize; the hundred-year quest to solve one of math's greatest puzzles.

Szpiro, George G.

Dutton Books, ©2007

309 p.

\$24.95

A reclusive Russian posted the solution to one of mathematic's major puzzles on the Internet in 2003, but Grigory Perelman has yet to claim the prestigious and lucrative prizes to which this entitles him. Szpiro (a Jerusalem-based mathematician/author of *Kepler's Conjecture*) traces the quest to solve Poincaré's 1904 problem concerning how an ant on a large surface would know whether it was flat, a round sphere, or bagel-shaped. Notes supply details for those wishing to be more mathematically literate about its implications.

QA76 2006-039663 978-1-59904-108-7

Architectural design of multi-agent system; technologies and techniques.

Lin, Hong. (Premier reference source)

Information Science Reference, ©2007

421 p.

\$165.00

Lin (U. of Houston) presents eighteen papers in this compilation of current practical and theoretical research on multi-agent software systems. He has organized the material into four sections covering fundamental theories for multi-agent systems, agent-oriented design technologies of computer systems, knowledge and artificial intelligence issues pertaining to agents, and applications in agent technology. Specific topics include designing a foundation for mobile agents in peer-to-peer networks, dynamic scheduling of multi-agent in agent-based distributed network management, scalable fault tolerant agent grooming environment, modeling knowledge and reasoning in conversational recommendation agents, a swarm intelligence approach to task allocation in case-based recommender systems, a multi-agent system for optimal supply chain management, macroscopic modeling of information flow in an agent-based electronic health record, robust intelligent control of mobile robots, and a multi-agent system for risk management.

QA76 2006-052821 978-0-471-79814-9

Computer science reconsidered; the invocation model of process expression.

Fant, Karl M.

Wiley-Interscience, ©2007

269 p.

\$90.00

Fant presents his case that the relationship between computer science and mathematics is too complex and confusing, and at best only partially successful. He proposes a new concept, called the "invocation model" of process expression, in which the design and function of computing systems mirrors biological systems. He starts by critically reviewing the notion of the algorithm in computer science and how it got there in the first place, then explains the simplicity of concurrency, the dehumanization of computer science, and the move to transcend the variable. He describes his invocation model and then gives its expressions, describes composing boundaries and working with time and memory, analyzes incidental time, points of view, referential and autonomous process expression and the invocation language.

QA76 978-0-7695-2870-0

Computer software and applications; proceedings; 2v.

International Computer Software and Applications Conference (31st:

2007: Beijing, China)

Computer Society Press, ©2007

1444 p.

\$416.00 (pa)

Two hefty volumes present papers from the 31st COMPSAC conference held in July 2007. Initial panels discuss future trends—computing as a core discipline; challenges and experiences in industry-university research collaboration and technology transition; middleware for next-generation converged networks and services (myths and realities); ethics in computing; software process improvement for small organizations; software for the mobile internet; and test automation in practice. Following are papers organized in topical sections on such subjects as security, life cycle, quality of service, software engineering methods and tools, and software applications. Topics presented in the doctoral symposium include selecting COTS component guidelines, coding and testing of component-based software, functional specifications of object oriented systems, model checking of component connectors, and end user service composition. Indexing is by author, but not by subject.

QA76 2006-039748 978-1-59904-289-3

Contemporary issues in database design and information systems development.

Siau, Keng.

IGI Publishing, ©2007

331 p.

\$99.95

These ten articles describe new approaches and renovations of traditional ones to give designers and managers a better idea of what is happening out there in database design. Their topics include a contextual approach that works toward an ontology for information systems development, an ontological analysis of KAOS using separation of references, an application of UML for modeling the physical design of data warehouses, process mining and intelligent redesign supporting the full BPM life-cycle, efficient placement and processing in shared-nothing data warehouses, factors affecting design decisions for customer relationship management data warehouses, effective processing of XML-extended OLAP queries based on a physical algebra, the differences between the theoretical and practical complexity of UML, data quality and expanded database access control.

QA76 2006-039745 978-1-59904-002-8

Encyclopedia of mobile computing and commerce; 2v.

Taniar, David.

Information Science Reference, ©2007

1083 p.

\$452.00

Because those in the field must try to mesh technical understanding and business acumen, this two-volume resource will find readers among entrepreneurs who need a handle on technical vocabulary and concerns, engineers seeking to understand something of the context of their work, and the really smart folks who can bring it all together and make a fortune. Articles are arranged alphabetically, but a "contents-by-topic" listing at the beginning of each volume indicates coverage of the broad themes of 3G, adhoc networks, converging technologies, the human factor, location and context awareness, m-business and m-commerce, m-entertainment, m-health, m-learning, mobile multimedia, mobile phones, mobile software engineering, P2P, security, sensor networks, service computing, and wireless networking. Among the specific topics: gender difference in the motivations of mobile internet usage, pest activity prognosis in the rice field, man-machine interface with applications in mobile robotic systems, mobile commerce adoption barriers, mobile-based advertising in Japan, semantic enrichment of location-based services, and intelligent medium access control protocol for WSN. Editor Taniar is affiliated with Monash University, Australia.

QA76 2006-039844 978-1-59140-999-1

Handbook of research on open source software; technological, economic, and social perspectives.

St. Amant, Kirk and Brian Still.

Information Science Reference, ©2007

728 p.

\$225.00

St. Amant and Still, both of Texas Tech University, compile the latest research from around the world on open source software (OSS) technologies and their educational, economic, organizational, and societal implications. The handbook is divided into seven sections examining factors affecting OSS development, adoption, and use: culture and society; development models and methods for OSS production; evaluation of OSS products and uses; laws and licensing practices; public policy and government perspectives; business approaches and applications; and educational perspectives and practices. Chapter key terms and their definitions are included, with a total of about 350 terms defined. The handbook is useful as a reference for researchers, managers, and policy makers, and can be used as a supplementary text for advanced undergraduate and graduate courses.

QA76 978-0-7695-2908-0

Logic in computer science; proceedings.

Symposium on Logic in Computer Science (22nd: 2007: Wroclaw, Poland)

Computer Society Press, ©2007

474 p.

\$228.00 (pa)

These proceedings of the July 2007 symposium include the 39 papers selected for presentation, a list of short presentations and a list of associated workshops held as satellite events held in the previous year. The papers, which include abstracts and references, cover type theory (including a dependent set theory), computational proof theory (including methods of problem solving in elementary geometry), security (including highly efficient proofs of correctness of computations that preserve secrecy), timed and stochastic systems, verification, constraints, proof complexity, finite model theory, concurrency and process calculi, semantics of programming languages (including the algebraic theory of effects), game semantics (including categorical combinatorics for "innocent" strategies), linear logic, and topology and computable mathematics.

- QA76 978-1-933952-12-3
Managing the test people; a guide to practical technical management.
 McKay, Judy.
Rocky Nook, ©2007 180 p. \$39.95 (pa)
 Practitioner and consultant McKay has seen it all: the incredibly tight deadlines, the 80-hour work weeks, the unbelievable idiosyncrasies, and the projects gone up in smoke as key employees go to work across the industrial park for five more cents an hour. She covers recruiting and hiring to meet both industrial and human goals, interviewing, building workable job descriptions, creating a real team, motivating and communicating with individuals and groups, creating pride, leading a disparate group of individuals, evaluating performance at all levels, and managing growth and change. She concludes with the "delousing" process, including dealing with overload and picking the victims for layoffs.
- QA76 2007-008855 978-0-470-10267-1
Professional Adobe Flex 2.
 Tretola, Rich et al.
John Wiley & Sons, ©2007 687 p. \$49.99 (pa)
 Intended for web developers familiar with Flash, ActionScript, and XML, this guide explains how to build user interfaces from Adobe Flex 2 components, access data from Flex applications, and create custom components using MXML and ActionScript. The second half of the book discusses programming and data typing ActionScript classes, deploying Flex applications, the Cairngorm framework, ColdFusion extensions, and integration with rich media.
- QA76 978-0-7695-2860-1
Program comprehension; proceedings.
 International conference on Program Comprehension (15th: 2007: Alberta, Canada) Ed. by Kenny Wong et al.
Computer Society Press, ©2007 301 p. \$210.00 (pa)
 Papers from a recent conference on program comprehension describe progress in software analysis, reverse engineering, software evolution, and software visualization. Papers are in sections on feature and concept analysis, dynamic analysis, conceptual models, and empirical studies, as well as mining software repositories, aspects mining, static analysis, visualization, and tool demonstrations. Specific subjects examined include mining software repositories for traceability links, a hybrid program model for object-oriented reverse engineering, and using Bayesian belief networks to predict change propagation in software systems. Other topics covered are recovery of workflows from multi-tiered e-commerce systems, interactive visualization of use cases, and metrics for measuring the effectiveness of decompilers and obfuscators. There is no subject index.
- QA76 2006-039749 978-1-59904-927-4
Research issues in systems analysis and design, databases and software development.
 Siau, Keng.
IGI Publishing, ©2007 286 p. \$99.95
 Several of the ten papers in this collection explore modeling methods for active domains, knowledge management, deontic business rules, and organizational memory. Other topics include matching models of different abstraction levels, the application of agile software development at two companies, potential research areas in extreme programming, the adaptation of an agile information system development method, and translation between process modeling languages.
- QA76 978-0-7695-2848-9
Security and privacy; proceedings.
 Symposium on Security and Privacy (2007: Berkely, CA)
Computer Society Press, ©2007 366 p. \$211.00 (pa)
 This volume collects 29 papers for the May 2007 Institute of Electrical and Electronics Engineers Symposium on Security & Privacy. The papers address network security, authentication, privacy, access control and audit, information flow, host security, hardware and replication, and encryption. Examples of specific topics address include real-time identification of IP prefix hijacking, cryptanalysis of a cognitive authentication scheme, network flow watermarking attacks on low-latency anonymous communication systems, usable mandatory integrity protection for operating systems, using rescue points to navigate software recovery, optimal communication complexity of multiphase protocols for perfect communication, and multi-dimensional range query over encrypted data.
- QA76 2007-924331 0-7695-2892-9
Software engineering; companion volume; proceedings.
 International conference on Software Engineering (29th: 2007: Minneapolis, MN)
Computer Society Press, ©2007 192 p. \$193.00 (pa)
 The companion volume to the May 2007 conference proceedings consists of a full-length paper on mobile code evolution over the last ten years, a retrospective on *Peopleware*, 15 informal research demonstrations, 16 doctoral proposals, 21 workshop summaries, and 17 tutorials. The research demonstrations present tools for simulating use case scenarios, robustness testing of web services, checking temporal metric specifications, and developer documentation. Tutorial topics include mining software engineering data. Migration of legacy assets to service-oriented architectures, variability management in software product line engineering, and a cost-benefit analysis of software development techniques. No subject index is provided.
- QA76 978-0-7695-2828-1
Software engineering; proceedings.
 International conference on Software Engineering (29th: 2007: Minneapolis, MN)
Computer Society Press, ©2007 807 p. \$278.00 (pa)
 The proceedings of the May 2007 conference consists of 49 research papers, 15 experience reports, 13 education papers, and 12 formal research demonstrations. The research papers explore program analysis, software models, testing, clone detection, aspect-oriented software engineering, maintenance, debugging, and security. The experience reports study performance evaluation for legacy information systems, the evolution of an agile-developed software system, company-side implementation of metric for early fault detection, application of ISO and CMMI to software process maturity. Demonstration topics include a program slicing tool for declarative specifications, topology-based searches for software investigation, visualization of code clones in context, and advanced mechatronic systems. No subject index is provided.
- QA76.17 978-0-19-280578-2
Jacquard's web; how a hand-loom led to the birth of the information age. (reprint, 2004)
 Essinger, James.
Oxford U. Press, ©2007 302 p. \$16.95 (pa)
 This is a paperback reprint of a 2004 book. History enthusiast Essinger tracks the evolution of Jacquard's machine, a set of punched cards that directed patterns produced on silk looms, finding that Jacquard adapted (but did not invent) the system primarily to corner the silk weaving market. Jacquard soon saw the concept sliding from *salon* to workshop floor to other factories. Essinger tracks it all the way, right up to the introduction of the commercial computer about 200 years later.
- QA76.25 2006-028739 978-1-59357-320-1
Top 100 computer and technical careers; your complete guidebook to major jobs in many fields at all training levels, 3d ed.
 Farr, Michael. (Top career series)
JIST Publishing, ©2007 378 p. \$17.95 (pa)
 This guide summarizes the work performed, training required, workplace conditions, salary, advancement opportunities, and job outlook for 100 careers that require computer and technical skills, such as dental hygienists, medical transcriptionists, opticians, respiratory therapists, and semiconductor processors, among others. The previous title was *America's top 101 computer and technical jobs*. The third edition cites occupational descriptions and 2005 data published in the latest edition of the *Occupational outlook handbook* by the Department of Labor.
- QA76.3 2007-015940 978-1-58720-177-6
CCDA official exam certification guide, 3d ed. (CD-ROM included)
 Bruno, Anthony and Steve Jordan. (Exam certification guide series)
Cisco Press, ©2007 655 p. \$59.99
 This book/CD-ROM exam study guide focuses on topics for Cisco's DESGN exam. Coverage encompasses general network design, LAN and WAN design, the Internet protocol and routing protocols, and security and network management. A final section presents four case studies and questions, and an appendix covers the OSI reference model, TCP/IP architecture, and numeric conversion. Chapter-opening quizzes allow readers to judge how much time they need to spend on each lesson. Other learning features include exam topic lists, summaries, and chapter-ending review questions. The CD-ROM contains an electronic copy of the book and 200 practice questions for the DESGN exam, available in study mode, test mode, and flash card format. Bruno and Jordan are internet-working consultants.

QA76.3 2007-012694 978-0-7897-3573-7
CISA exam prep.
Gregg, Michael.
Que Publishing, ©2007 578 p. \$59.99 (pa)
Organized by ISACA exam objective, this study aid describes IS audit strategies, IT governance policies, controls for lifecycle project management, practices to ensure IT service delivery, the protection of logical assets, physical security measures, and the disaster recovery plan. Each chapter ends with exercises and example exam questions, and the book culminates in a practice exam with 135 multiple choice questions.

QA76.3 2007-019513 978-0-7897-3564-5
CompTIA A+ exam cram (exams 220-602, 220-603, 220-604). (CD-ROM included)
Brooks, Charles J.
Que Publishing, ©2008 1292 p. \$44.99 (pa)
This book/CD-ROM study guide prepares users for the October 2006 version of the A+ Certification exams from the Computer Technology Industry Association (CompTIA). Because exam candidates must pass the Essentials exam and one of three other advanced exams, study materials for all four of the exams are included. The first eight chapters cover the 220-601 Essentials exam, and the rest of the chapters cover elements from Essentials and from one or more of the advanced exams. Chapters begin with objectives and conclude with multiple-choice exam prep questions and challenge questions based on realistic scenarios. The CD-ROM contains practice tests and explained answers, in study and exam modes, allowing users to test by chapter or on a mixture of questions from all areas of the text. Brooks is a trainer and product developer in the private sector.

QA76.5 978-0-7695-2902-8
Application of concurrency to system design; proceedings.
Int'l Conference on Application of Concurrency to System Design (7th: 2007: Bratislava, Slovak Republic) Ed. by Twan Basten et al.
Computer Society Press, ©2007 243 p. \$185.00 (pa)
A July 2007 conference served as a forum for disseminating theoretical results with application potential and advanced methods and tools for the design of complex concurrent systems. This proceedings volume contains invited papers, regular papers, tool papers, and extended abstracts from the conference. Some areas discussed include modeling mobility in high-level Petri nets, a model-driven design approach for mechatronic systems, automatic resolution of encoding conflicts using STG unfoldings, real-time process algebra with stochastic delays, and asynchronous data path models. Other topics covered include mapping applications to tiled multiprocessor embedded systems, hazard checking of time asynchronous circuits, and synthesis and control of asynchronous and distributed systems. There is no subject index.

QA76.5 2007-011464 0-321-47714-6
Closed Loop Lifecycle Planning; a complete guide to managing your PC fleet.
Michelson, Bruce.
Addison-Wesley, ©2007 550 p. \$44.99
In the business for several decades and acknowledged as an expert in the field, Michelson (Hewlett Packard) presents closed loop lifecycle planning, a methodology he has developed to deal with the business, political, economic, and technical considerations of acquiring, installing, supporting, and updating computer hardware. He offers guidance for all aspects of this complex endeavor, discussing the practicalities of continuous process improvement and strategies for cost savings.

QA76.54 978-0-7695-2914-1
Euromicro conference on real-time systems; proceedings.
Euromicro Conference on Real-Time Systems (19th: 2007: Pisa, Italy)
Computer Society Press, ©2007 301 p. \$202.00 (pa)
These proceedings of the July 2007 conference include the 27 papers presented plus notes on the keynote talks on the evolution of model-driven development into model-driven engineering, real-time requirements of media control applications and research opportunities under the European Commission. Major topics include scheduling and schedulability analysis, including a delay composition theorem for real-time pipelines, multiprocessor scheduling, including hard and soft real-time tasks, control and energy management, including dynamic rate adjustments for robotic systems, wireless network scheduling, including those to meet IEEE standards, timing analysis, including a compiler approach to predictable paging, the quality of service management, including scheduling variable execution times, scheduling in networks and multicore platforms, including composition techniques for tree communication schedules, and fixed-priority scheduling, including work in artificial intelligence.

QA76.55 2006-031349 1-59904-426-9
Semantic web-based information systems; state-of-the-art applications.
Title main entry. Ed. by Amit Sheth and Miltiadis Lytras.
CyberTech Publishing, ©2007 317 p. \$94.95
An extension of the current World Wide Web, the "Semantic Web" is a both a philosophy and a set of technologies aimed at enabling computers and people to better cooperate in the finding and sharing of information. This volume contains twelve contributions by international researchers in academia and industry considering various aspects of the Semantic Web and related information systems. Sample topics include ontology creation methodologies, design principles for versatile Web query languages, and semantic applications for online businesses. CyberTech Publishing is an imprint of Idea Group Publishing.

QA76.575 978-0-321-49982-0
Adobe Flash CS3 Professional. (CD-ROM included)
Title main entry. (Classroom in a book)
Adobe Press, ©2007 336 p. \$54.99 (pa)
This official training workbook from Adobe Systems teaches developers the basics of the Adobe Flash multimedia authoring program. Coverage includes (for example) creating symbols, working with text, adding animation, creating interactive files, and optimizing Flash content. Eleven lesson files are found on the accompanying CD-ROM. Adobe Flash CS3 Professional software for either Windows or Mac OS (not included) is required to complete the lessons.

QA76.575 2007-014020 0-7897-3692-6
Adobe Flash CS3 professional on demand.
Anderson, Andy and Steve Johnson.
Que Publishing, ©2007 572 p. \$39.99 (pa)
Aimed at beginning to intermediate users, this volume provides step-by-step instructions for creating multimedia content using Adobe Flash CS3 Professional. Sample topics include working with layers, importing graphics, using ActionScripts, and debugging movies. Full-color screenshot illustrations accompany the text throughout, and example files for the tutorials are available for download from a companion website. The authors are affiliated with a software training company.

QA76.575 978-0-321-50303-9
Flash CS3 Professional advanced; for Windows and Macintosh.
Chun, Russell.
Peachpit Press, Inc., ©2007 515 p. \$34.99 (pa)
Written for designers, animators, and developers who have mastered basics of Flash, this tutorial gives step-by-step instructions for advanced techniques in animation, interactivity, transforming graphics and sound, and working with information, emphasizing how groups of techniques can be combined to solve a particular problem. Tasks build on each other, with simpler material progressing to more difficult. Tips in each task give hints about shortcuts, warnings about common mistakes, and suggestions for extending techniques, and sidebars discuss related matters. An accompanying web site provides Flash source files for tasks. Some basic familiarity with ActionScript is assumed. Chun teaches Flash and new media at the Columbia University Graduate School of Journalism.

QA76.575 2007-020072 978-0-672-32937-1
Sams teach yourself Adobe Flash CS3 in 24 hours.
Kerman, Phillip.
Sams, ©2007 547 p. \$34.99 (pa)
Kerman, a trainer in Flash and other authoring tools, walks readers through essentials of creating animations using Adobe Flash CS3 Professional. Twenty-four lessons of one hour or less outline step-by-step instructions for common Flash tasks, and chapter summaries, quizzes, exercises, and FAQs at the end of each chapter offer a review. Material is in sections on assembling graphics for animation, animating in Flash, adding interactivity and video, and linking work to web sites. Rather than the previous edition's three lessons on the difficult topic of ActionScript, this fifth edition offers one lesson on basic ActionScript and two on using ActionScript's Components. An ActionScript primer is available online. This fifth edition also covers Flash's new Photoshop and Illustrator import features, and includes a new lesson on Flash video.

QA76.58 2006-932503 978-1-58603-671-3

Communicating process architectures; proceedings.

WoTUG Technical Meeting (29th: 2006: Edinburgh, Scotland) Ed. by Peter H. Welch. (Concurrent systems engineering series; v.64) IOS Press, ©2006 391 p. \$150.00 (pa)

These proceedings of the September 2006 technical meeting reflect the contributors' commitment to find simple ways to design, implement and reason about concurrent systems. The resulting papers include some very hot topics, including safe and effective programming models for multicore processors and stretch from introductions (to CSP.NET, for example) to comments upon communicating process theory. Specific topics include case studies, CSP mechanisms for the .NET framework, parallel systems on embedded and mobile devices, modern link technology, and applications including video processing, robotics, massive multiplayer gaming, material and biological modeling along with visual design languages and tools for CSP and real-time tools, new process-oriented programming and design environments, efficient cluster computing and debugging of message-passing systems.

QA76.58 2007-927956 978-0-7695-2917-2

Parallel and distributed computing; proceedings.

International Symposium on Parallel and Distributed Computing (6th: 2007: Hagenberg, Austria) Computer Society Press, ©2007 400 p. \$247.00 (pa)

These proceedings of the July 2007 symposium includes 48 papers reflecting the dynamics of this rapidly expanding field, including several case studies, application reports, and a full treatment of the invited talk on knowledge-based platforms for environmental risk management. General topics include parallel computing, with papers on a new execution mechanism for distributed pipeline processing, real-time systems, including a prototype of a social- and economically-based resource allocations system in grid computing, grid computing, including a fully distributed active and passive task management system, peer-to-peer computing, including a new iterative method to improve Internet distance estimation, distributed software components, scheduling and load balancing, cluster computing, programming paradigms and related issues, mobile computing, fault tolerance, and scientific computing and simulations.

QA76.58 2006-052157 978-0-471-73576-2

Task scheduling for parallel systems.

Sinnen, Oliver. Wiley-Interscience, ©2007 296 p. \$80.00

Long a tool of programmers and developers, task scheduling for parallel systems has grown legs of its own and now often resembles a magpie's nest of heuristics, models and methods. Here Sinnen (electrical and computer engineering, U. of Auckland) goes beyond the classical (read "quagmire" approach and shirks resorting to mere tips and tricks to present a consistent theoretical framework with realistic parallel system models that take into consideration heterogeneity, competition for communication resources and the involvement of the processor in communications. He covers parallel systems and programming, graph representations, task scheduling, fundamental heuristics, communications contentions in scheduling and processor involvement in communication.

QA76.6 2001-4987 978-0-87389-720-4

Fundamental concepts for the software quality engineer; v.2.

Title main entry. Ed. by Sue Carroll and Taz Daughtrey. ASQ Quality Press, ©2007 362 p. \$60.00 (pa)

This volume contains reprints of 22 articles published in the last five volumes of *Software quality professional*. The contributors propose an inclusive model for the cost of software quality, a method for scheduling the work required to develop software products, an analytical approach to software metrics management, and a framework for testing the usability of security sensitive systems. Other topics include rule-based design reviews, the problem of over-committing to customers, optimizing software inspections with statistical quality techniques, and software measurement using SCM.

QA76.62 2007-274611 1-59059-620-X

Foundations of F#.

Pickering, Robert. Apress, ©2007 360 p. \$59.99

F# is a programming language that combines functional programming with the .NET platform. This guide to using F# covers installation, functional and imperative programming, object-oriented programming, annotating and quoting code, and the F# libraries. Also covered are user interfaces, data access, distributed applications, language-oriented programming, the F# tool suite and .NET programming tools, and compatibility and advanced interoperation. The book is of interest to .NET programmers. Pickering has been writing about F# since it began.

QA76.62 2007-274611 1-59059-620-X

Practical OCaml.

Smith, Joshua B. (Expert's voice in open source) Apress, ©2006 456 p. \$49.99

Smith, a programmer in the financial industry, introduces OCaml, a general purpose programming language used in industries ranging from microchip fabrication to financial analysis. He overviews the OCaml installation process and the interactive OCaml interpreter as a framework for exploring the language's syntax, semantics, and types. He also covers advanced features such as the documentation-generation tool, threading, and the Camlp4 preprocessor. Examples focus on OCaml-driven applications capable of performing complex log-file processing, web crawling, filtering spam, and broadcasting audio over a network using the Shoutcast protocol.

QA76.625 2007-927696 978-0-321-50313-8

Developing applications with Windows Workflow Foundation. (DVD-ROM included)

Noyes, Brian. Addison-Wesley, ©2007 62 p. \$69.99

In this book/DVD-ROM package, Noyes, a software architect, offers an introduction to the Windows Workflow Foundation. The DVD-ROM contains a set of 20 self-paced, self-contained video lessons, some as short as 15 minutes, others longer, covering topics such as workflow concepts, integration, persistence, Web services, and transactions. Each lesson starts with learning objectives, then transitions to a screen capture of the author's workstation, leading readers through steps required to perform and understand the objectives. The DVD-ROM also contains code samples used in the lessons. The book contains outlines of the lessons, with code. The lessons are geared toward experienced .NET developers and architects who are new to the Windows Workflow Foundation. The hybrid package design features a box that opens like a book, with the DVD-ROM enclosed in a hard-plastic case inside the box, and the slim paperbound manual glued to the inside of the box cover.

QA76.625 2007-272010 978-1-59059-694-4

Pro .NET 2.0 Windows forms and custom controls in VB 2005.

MacDonald, Matthew. (Expert's voice in .NET) Apress, ©2006 1036 p. \$49.99 (pa)

Intended for experienced developers, this dense guide explains how to build user interfaces and custom controls with the latest version of Windows Forms. MacDonald, who is a Microsoft MVP, walks through .NET controls, the Form class, drawing with GDI+, data binding, the WebBrowser control, validation events, document interfaces, multithreading, help systems, skinned forms, and animated buttons. An appendix explores the organization and logic of interface design for usability.

QA76.63 2006-932504 1-58603-674-2

An inductive logic programming approach to statistical relational learning.

Kersting, Kristian. (Frontiers in artificial intelligence and applications; v.148; Dissertations in artificial intelligence) IOS Press, ©2006 228 p. \$131.00

In artificial intelligence, statistical relational learning addresses the integration of probabilistic reasoning with first order logic representation and machine learning. In this treatise, Kersting (Institute for Computer Science, Albert-Ludwigs-U. Freiburg, Germany) develops a general framework of probabilistic inductive logic programming as a foundation for his approach to statistical relational learning, which incorporates the logical concepts of objects and relations among objects into Bayesian networks. Further, Bayesian networks are upgraded to Bayesian logic programs, hidden Markov models to logical hidden Markov models, and Markov decision process to Markov decision programs. Finally, he seeks to show that statistical relational learning approaches naturally yield kernels for structured data and demonstrates these approaches using examples from genetics, bio-informatics, and classical planning domains.

QA76.64 2006-100724 978-1-58488-911-3

A guide to MATLAB object-oriented programming. (CD-ROM included)

Register, Andy H.
Chapman & Hall/CRC, ©2007 354 p. \$79.95 (pa)

This guide covers the documented and undocumented object-oriented features of MATLAB. Register (Georgia Tech Research Institute) explains the required elements of MATLAB and developing a set of functions that give objects first-class status within the environment, covering eight functions that provide object initialization, a simple intuitive interface, interaction with the environment's features, and array capability. The following section covers strategies and implementations for the construction of hierarchies. The book ends with a section on advanced strategies and utilities. Readers are expected to have an intermediate level of MATLAB programming knowledge and superficial knowledge of object-oriented programming. The CD-ROM contains source code and the Class Wizard tool.

QA76.64 978-0-596-52986-4

Learning Ruby.

Fitzgerald, Michael.
O'Reilly Media, Inc., ©2007 238 p. \$34.99 (pa)

Aimed at programmers of all experience levels, this volume uses a series of hands-on tutorials to get them started using the Ruby programming language. It also offers a wealth of code examples they can imitate or modify. Topics include (for example) installing Ruby, using conditionals, manipulating strings, and working with files. The final chapter covers the basics of Ruby on Rails. Fitzgerald is the author of *Ruby Pocket Reference* and several other technology titles.

QA76.64 2007-002589 0-201-89551-X

Object-oriented analysis and design with applications, 3d ed.

Title main entry. Ed. by Grady Booch et al. (The Addison-Wesley Object Technology Series)
Addison-Wesley, ©2007 691 p. \$64.99

Editor Booch (UML founder) and contributors outline object-oriented methods using the Unified Modeling Language 2.0. Problems encountered by system and software developers are enumerated, including concepts, notation, and applications; the book is also appropriate for students and program managers. This edition incorporates an introduction to UML 2.0, a focus on modeling aspects (with five chapters on specific phases of the development lifecycle), new treatment of system architecture using object-oriented analysis and design and UML, an appendix on object-oriented programming languages, and other information. Most of the coding discussions have been removed.

QA76.64 2006-002491 978-0-932633-63-7

Object-oriented computation in C++ and Java; a practical guide to design patterns for object-oriented computing.

Weisert, Conrad.
Dorset House Publishing, ©2007 194 p. \$33.95 (pa)

Consultant Weisert has decades of experience in this field and therefore is not afraid of doing the math. Unlike the authors of many books about object-oriented programming, he does not concentrate on one-dimensional containers or collections and components of the graphical user interface and focuses instead on using numeric objects effectively. He puts those numeric objects in context, then reviews C++ and Java facilities and techniques for defining classes. He defines a pure numeric data type and a numeric type having an additive unit of measure, explains the point-extent pattern for pairs of numeric types, defines families of interacting numeric types and the role of inheritance and polymorphism with numeric types. In closing he describes programming with numeric vectors and matrices. He also provides exercises and problems.

QA76.73 2007-274613 1-59059-735-4

Beginning C; from novice to professional, 4th ed.

Horton, Ivor.
Apress, ©2006 611 p. \$49.99

C is powerful and compact, but it is also simple enough for first-time programmers or those making a switch from an old standby. Practitioner and author Horton assumes that everyone has to start somewhere, so they might as well start with a solid background in the basics. He describes what C does well and what it does not, preparations of programming, such as understanding terms and architectures, making decision in programming, loops, arrays, applications with strings and text, pointers, program structure, advanced functions, essential input and output operations, data structuring, files, and supporting facilities. Horton also provides appendices on computer arithmetic, ASCII character code definitions, reserved words in C and formal specifications for input and output.

QA76.73 2007-008102 978-0-470-05151-1

Beginning JavaScript, 3d ed.

Wilton, Paul and Jeremy McPeak.
John Wiley & Sons, ©2007 767 p. \$39.99 (pa)

Written for professionals familiar with HTML and web page design, this tutorial shows how to add dynamic content to a web application using JavaScript, manipulate objects available in the browser, enhance user interaction with dynamic HTML, and store user information in cookies. The third edition adds a chapter on remote scripting with AJAX and deletes the database chapter.

QA76.73 2007-296696 978-1-59059-622-7

Beginning Visual Basic 2005 express edition; from novice to professional. (CD-ROM included)

Wright, Peter.
Apress, ©2006 520 p. \$29.99 (pa)

Written for beginning and experienced programmers alike, this book/CD-ROM guide begins with a walk-through of the Visual Basic 2005 Express environment and proceeds through basics of the integrated development environment and the Visual basic language. Chapters cover working with variables, classes and object orientation, handling exceptions, code, and building Windows applications. Other subjects covered include files and streams, working with XML, database programming, the Internet and Visual Basic, and threading. The CD-ROM contains Microsoft's Visual Basic 2005 Express Edition. Wright has written many books on Microsoft development tools.

QA76.73 2007-924336 978-0-7695-2855-7

Dependable systems and networks; proceedings.

International conference on Dependable Systems and Networks (37th: 2006: Edinburgh, UK)

Computer Society Press, ©2007 817 p. \$232.00 (pa)

Sponsored by a committee of the IEEE Computer Society, the June 2007 meeting in Edinburgh, UK was the 37th, closing in on the big 4-0 for this annual gathering (and it seems like discussions of dependable systems and networks were born just yesterday). Here again are papers on security protection (architectural approaches); various aspects of software and hardware fault tolerance; and performance and dependability — architecture, measurement and monitoring, evaluation, and modeling, among other topics. Practical experience reports are presented along with research in each area. A concluding section comprises tutorials, workshops, student forums, fast abstracts, and a report on the National Programme for Information Technology in the UK Health Service. Indexing is by author, but not by subject.

QA76.73 2007-016507 0-321-30550-7

Extended STL; v.1: Collections and iterators. (CD-ROM included)

Wilson, Matthew.
Addison-Wesley, ©2007 572 p. \$49.99 (pa)

Go beyond the C++ standard and extend the Standard Template Library (STL) into APIs and non-standard collections. Consultant Wilson takes the time to explain the principles of UNIX programming and to inform readers about what makes for successful C++ software libraries, and gives those whose skills are at a basic level presentation conversions. He then describes STLs and what happens to them in the real world, element reference categories, the curious "untemporary" reference, the *DRY SPOT* principle, contract programming (including enforcement types and mechanisms, constraints, shims, partial structural performance, mutability and resource source, template tools, inferred interface adaptation, and essential components. He then goes through collections such as the *glob* and *opendir/readdir* API, enumerating processes and modules, the Fibonacci sequence, container families, environmental maps, the Z-plane, and string tokenization, finishing up with the various forms of iterators.

QA76.73 978-1-890774-42-4

Murach's Java SE 6. (CD-ROM included)

Murach, Joel and Andrea Steelman. (Training & reference)
Mike Murach & Assoc., ©2007 810 p. \$52.50 (pa)

Intended for beginners and developers transitioning from another language, this book explains how to use the classes in the Java API, create object-oriented programs, develop graphical user interfaces, and store the data for objects. The third edition adds sections on the StAX API for XML documents, automatic driver loading, and the Derby database.

- QA76.73 978-0-470-12472-7
Professional C# 2005 with .NET 3.0.
 Nagel, Christian. (Wrox programmer to programmer)
John Wiley & Sons, ©2007 1748 p. \$59.99 (pa)
 Intended for experienced developers, this guide explains the data types and object-oriented features of the C# language, the base class libraries in the .NET environment, the ADO.NET object model, building client-based application with Windows Forms, ASP.NET, and XML web services. The 2007 edition adds chapters on Windows presentation, communication, and workflow foundations.
- QA76.73 2007-009239 978-0-470-12470-3
Professional VB 2005 with .NET 3.0.
 Title main entry. Ed. by Bill Evjen et al. (Wrox programmer to programmer)
John Wiley & Sons, ©2007 1256 p. \$49.99 (pa)
 This guide explains the primary constructs of the Visual Basic 2005 programming language, and explores how VB 2005 supports the core principles of object-oriented programming, namely encapsulation, inheritance, and polymorphism. The second half of the book dives into the details of Windows Forms, the .NET assembly format, ASP.NET web pages, and XML web services. The 2007 edition adds chapters on Windows presentation, communication, and workflow foundations.
- QA76.73 2007-273022 978-0-9776166-9-5
Rails for Java developers.
 Halloway, Stuart and Justin Gehntland. (Pragmatic programmers/ Facets of Ruby series)
Pragmatic Bookshelf, ©2007 311 p. \$34.95 (pa)
 This guide for experienced Java developers uses a series of parallel examples to introduce the Ruby on Rails web application framework. Drawing upon their own background working with both environments, the authors focus on those aspects of Rails that will be new and of particular interest to Java developers. The volume is not intended as a comprehensive "how-to" manual. Sample code is available online. Distributed in the U.S. by O'Reilly Media.
- QA76.73 2007-007068 0-13-235480-2
Rich client programming; plugging into the NetBeans Platform. (CD-ROM included)
 Boudreau, Tim et al.
Prentice Hall, ©2007 604 p. \$49.99 (pa)
 Built atop Sun Microsystems's Swing graphic user interface library, NetBeans is an open-source integrated development environment for developing Java applications that employs modularity to simplify the creation and modification of features with both reliability and scalability. The authors of this work (all affiliated with the NetBeans project) provide a tutorial on the application programming interfaces of NetBeans that underlie its functionality. The volume is written to version 5.5 of the program. The contents of the CD-ROM are not described in the text.
- QA76.73 2007-014568 978-0-672-32943-2
Sams teach yourself Java 6 in 21 days. (CD-ROM included)
 Cadenhead, Rogers and Laura Lemay.
Sams, ©2007 697 p. \$44.99 (pa)
 This book/CD-ROM tutorial teaches skills necessary for developing three types of programs with Java: applications on a computer, servlets on a web server, and browser-launched Java Web Start applications. The tutorial contains 21 self-contained lessons, each ending with a workshop section of questions, answers, and exercises, including certification practice exercises. The CD-ROM contains source code for examples in the book, Java SE Development Kit 6, NetBeans IDE 5.5, and other material. The readership for the book includes novices who are new to programming, people who have been introduced to earlier versions of Java, and experienced developers in other languages. Cadenhead and Lemay have both written numerous books on Web development.
- QA76.73 2007-000578 978-0-13-149735-1
SQL for MySQL developers; a comprehensive tutorial and reference.
 Lans, Rick F. van der. Trans. by Diane Cools
Addison-Wesley, ©2007 1004 p. \$49.99 (pa)
 Combining a comprehensive tutorial with a reference is a very good idea in the case of this software, which combines a SQL dialect with significant power. SQL master van der Lans works from the ground up so users can be more efficient from the start, and uses case studies and examples throughout to bring reality into the mix. He introduces the product with a case study database as he instructs on installation and theory, moving to querying and updating data, using SELECT statements with table expressions and subqueries (with encyclopedic coverage of the relevant statements and clauses), loading and unloading data, updating tables, creating database objects by with tables and integrity constraints, creating character sets and collations, changing and dropping tables, using indexes, setting up databases and applying security measures. He handles procedural database objects such as stored procedures and functions, triggers and events and concludes with tips on programming with SQL, including creating transactions and multi-user events.
- QA76.73 978-0-596-00957-1
Understanding MySQL internals.
 Pachev, Sasha.
O'Reilly Media, Inc., ©2007 234 p. \$49.99 (pa)
 Pachev, who was on the original MySQL development team explains structures of its code that developers will find helpful in extending the open-source database software to serve specific purposes. Among those structures are client/server communication, thread-based request handling, concurrent access and locking, storage engines, and replication. Administrators and users will find little of use here.
- QA76.73 2007-008741 0-321-50171-3
VBScript, WMI and ADSI unleashed; using VBScript, WMI, and ADSI to automate Windows administration.
 Jones, Don.
Sams, ©2007 555 p. \$49.99 (pa)
 Jones, a Windows scripting consultant, offers a Windows administrator's guide to using Microsoft's key scripting technologies. Introductory chapters on general Windows administrative scripting concepts are followed by a VBScript tutorial leading to the creation of a first script from scratch. Later sections cover Windows Management Instrumentation (WMI) and the Active Directory Services Interface (ADSI), and advanced scripting techniques. The book concludes with a section of real-world examples, from logon/logoff scripts to automated domain administration. Every script is explained line by line, with challenging techniques described in more detail. The material in the book is suitable for use with Windows NT, Windows 2000, Windows Server 2003, and Windows "loughorn" Server environments such as Windows XP and Windows Vista.
- QA76.73 2007-014970 978-0-470-13705-5
Visual Basic 2005 with .NET 3.0 programmer's reference.
 Stephens, Rod.
John Wiley & Sons, ©2007 1152 p. \$39.99 (pa)
 This guide explains the basic program syntax of Visual Basic .NET, custom controls, object-oriented programming, and the graphics device interface. Previously published as *Visual Basic 2005 programmer's reference*, the 2007 edition runs on the Vista operating system and adds chapters on UAC security, Windows presentation foundation, workflow foundation, and communication foundation.
- QA76.758 2006-031366 1-59140-941-1
Advances in machine learning applications in software engineering.
 Title main entry. Ed. by Du Zhang and Jeffrey J. P. Tsai.
IGI Publishing, ©2007 480 p. \$94.95
 The sixteen papers presented by Zhang (California State U.) and Tsai (U. of Illinois at Chicago) describe recent advances in machine learning applications in software engineering. They are organized into five sections that deal with analysis, characterization, and refinement of software engineering data in terms of machine learning methods; present applications of machine learning approaches for helping with software systems development and deployment; describe the use of machine learning methods to establish predictive models for software quality and relevancy; describe state-of-the-art applications of two machine learning methods; and explore areas of future work such as automatic code generation and proactive semantic software engineering.

QA76.758 2006-025796 978-0-8493-3592-1

Effective software maintenance and evolution; a reuse-based approach.

Jarzabek, Stanislaw.

Auerbach Publications, ©2007 392 p. \$79.95

Jarzabek (computer science, National U. of Singapore) addresses both conventional and unconventional means of maintaining software and takes an approach that exploits similarities in software and in patterns of evolutionary change. On the way to green he describes conventional methods, including static program analysis, reverse engineering, model-based design, and configuration management. He then describes reuse-based techniques step-by-step, gives the symptoms and causes of software similarities, develops a mixed-strategy approach to generic design, scales it up, and applies the approach to a range of projects. Distributed by Taylor & Francis.

QA76.758 978-1-59059-844-3

Managing humans; biting and humorous tales of a software engineering manager.

Lopp, Michael.

Apress, ©2007 209 p. \$24.99 (pa)

Using humorous stories about his experiences as a software engineering manager, Lopp presents tips for doing the job and issues relating to handling conflict, managing different personality types, innovation, decision making, saying no, managing products, and building a lasting engineering culture. He also covers interviewing candidates, meetings, and reorganizations. There is no bibliography.

QA76.758 2007-924330 978-0-7695-2856-4

Theoretical aspects of software engineering; proceedings.

Joint IEEE/IFIP Symposium on Theoretical Aspects of Software Engineering (1st: 2007: Shanghai, China)

Computer Society Press, ©2007 494 p. \$198.00 (pa)

This volume collects 46 papers from the first International Symposium on Theoretical Aspects of Software Engineering, held in June 2007. The papers describe advances in such areas as formal methods, safety and reliability security issues, service systems, software architecture and frameworks, testing techniques, verification and validation, and workflow analysis. A few examples of specific topics include unified modeling and analysis base on Petri nets and pi calculus, model checking software at compile time, automating language evolution, specification-based test generation and optimization using model checking, and consistency and minimality of UML class specifications with multiplicities and uniqueness constraints. The volume also contains a tutorial on varieties of static analyzers, as well as keynote speech abstracts on software security and abstractions for real-time systems.

QA76.758 2006-036497 978-0-8493-7228-5

What every engineer should know about software engineering.

Laplante, Phillip A. (What every engineer should know; no.40)

CRC / Taylor & Francis, ©2007 311 p. \$49.95 (pa)

Writing for engineers and students, Laplante (software engineering, Pennsylvania State U.) introduces the principles of software engineering, using a question and answer format. He discusses software engineering as a "profession, an engineering discipline, a culture, and an art form." He describes standards and certifications; software properties and processes; software requirements specification; design; quality assurance; managing projects and engineers; and the future of the field. Some material has been taken from the author's previous books, such as *Software Engineering for Image Processing Systems*, and has been rewritten.

Assume that all books contain appropriate scholarly paraphernalia. We note if the book should contain, but lacks, a subject index and/or a bibliography.

QA76.76 2006-031361 1-59904-265-7

Application of agents and intelligent information technologies.

Title main entry. Ed. by Vijayan Sugumaran.

Idea Group Publishing, ©2007 377 p. \$99.95

Intelligent-agent technology, believes Sugumaran (Oakland U.), has come of age to the point where its applications can be useful in a variety of fields such as electronic commerce, supply-chain management, resource allocation, intelligent manufacturing, mass customization, industrial control, information retrieval and filtering, collaborative work, mobile commerce, decision support, and computer games. In this volume, he presents 15 examples of recent research and applications of agents and other intelligent-information technologies. These include an ontology-based approach to business rules sourcing in supply chain management systems, approaches and tools to optimize and manage clinical processes, agent-based modeling and simulation for explaining the impact of education on malaria healthcare, an intelligent multi-robot system using higher-order mobile agents, instrument validation for strategic business simulation, building sound semantic web frameworks for scalable and fault-tolerant systems, automatic database management, the monitoring and enforcing of online auction ethics, and mail server management with intelligent agents.

QA76.76 2006-031365 978-1-59904-183-4

Architecture of reliable web applications software.

Title main entry. Ed. by Roh'd A. Radaideh and Hayder Al-Ameed.

Idea Group Publishing, ©2007 364 p. \$99.95

Aimed at scholars and practitioners in the field of information technology, this volume considers issues related to the reliability, availability, manageability, performance, scalability, and security of Web applications. Sample topics include: some approaches to minimize a database server's downtime; the use of enterprise metadata methodologies to govern the Web application environment; and the architecture of an information system for personal financial planning. Radaideh is an IT advisor for the Ministry of the Interior, and Al-Ameed is a professor at United Arab Emirates U., in the UAE.

QA76.76 2006-027707 978-1-59904-249-7

Artificial intelligence and integrated intelligent information systems; emerging technologies and applications.

Title main entry. Ed. by Xuan F. Zha.

Idea Group Publishing, ©2007 454 p. \$94.95

Once fantastic, now ubiquitous, artificial intelligence (AI) and integrated intelligent information systems (IIISs) continue to fascinate. Reflecting this fascination are these 20 articles, the contributors of which cover emerging intelligent technologies and applications, hybrid intelligent systems and applications, innovative computing and control, modeling and development of intelligent information systems, and integrated intelligent product design and development. Individual topics include human-based models for ambient intelligence environments, a self-repair and regulation model using information networks as complex systems, soft statistical decision fusion for distributed medical data on grids, layers in hierarchical fuzzy logic systems using genetic algorithms, text mining using evolutionary methods and language technologies, nonlinear time-series prediction, process control of electrochemical discharge machining, face detection through neural networks and 3D genetic template matching, vision-based intelligent systems, object detection, multi-level modeling of multi-mobile agent systems, support of object-oriented software design, virtual product design and development, recommendation services in e-markets.

QA76.76 2007-924279 0-7695-2859-7

Autonomic and autonomous systems; proceedings. (CD-ROM)

Int'l conference on Autonomic and Autonomous Systems (3d: 2007:

Athens, Greece) Ed. by José Neuman et al.

Computer Society Press, ©2006 — p. \$216.00

This CD-ROM presents 69 papers from the June 2007 conference in pdf format. The chapters open in separate windows (a nice feature for printing) and cover topics related to modeling and algorithms; design and development; advanced automation; and management and control. Topics include MOF-EMF alignment; concurrent inference of high level context using alternative context construction trees; autonomously reconstructable semi-structured P2P networks for file sharing; adaptive context-aware access control policy in ad-hoc networks; load redistribution in heterogeneous systems; digital stock control mechanism in electronic retail companies in the UK; and algorithms and design for an autonomous biological system.

- QA76.76 2007-006580 978-0-470-11487-2
Beginning XML, 4th ed.
 Title main entry. Ed. by David Hunter et al.
John Wiley & Sons, ©2007 1039 p. \$39.99 (pa)
 This guide explains the rules for constructing extensible markup language (XML) documents, introduces document type definitions (DTDs) and XML schemas, discusses strategies for storing and retrieving XML documents, and describes programming with the document object model (DOM) and simple API for XML (SAX). The fourth edition adds a chapter on Ajax techniques and a section on Atom.
- QA76.76 2007-927073 978-0-7695-2919-6
Bio-inspired, learning, and intelligent systems for security; proceedings.
 ECSIS Symposium (2007: Edinburgh, UK) Ed. by Adrian Stoica et al.
Computer Society Press, ©2007 163 p. \$170.00 (pa)
 With so many minds on security it is no wonder that research is booming on computational systems that operate partly on fully autonomously in such a way that if the same behavior was observed in animals the observer would assume the animal was therefore intelligent. Many various species and stripes of computational animals are here, many of which are designed to fight cyber-crime, maintain the integrity of financial systems or combine system types for specific applications such as using space vessel systems to perform mapping of the earth. General topics include biometrics, cyber security, sensor networks, adaptive techniques for security, image and signal processing techniques, emerging areas in security research and applications from biology, chemistry and medicine. The editors provide an author index.
- QA76.76 2007-012001 978-0-321-33638-5
Continuous integration; improving software quality and reducing risk.
 Duvall, Paul M.
Addison-Wesley, ©2007 283 p. \$44.99 (pa)
 Continuous integration has been described as “a software practice where members of a team integrate their work frequently” and “each integration is verified by an automated build (including test) to detect integration errors as quickly as possible.” The authors (of Stelligent Incorporated, a software consulting company, and AutomateIT, a service branch of 5AM Solutions) of this guide give instruction on how to automate software integration processes so that they run every time the software under development is changed. Following a discussion of the basic principles and practices of continuous integration, they offer chapters on continuous database integration, testing, inspection, deployment, and feedback.
- QA76.76 2007-006782 978-1-58450-495-5
Data structures and algorithms for game developers. (CD-ROM included)
 Sherrod, Allen.
Charles River Media, ©2007 560 p. \$54.99 (pa)
 This book for beginner, student, and hobbyist game programmers illustrates how to create data structures and write algorithms that will promote the best performance. In addition to game and simulation-related data structures, it covers common data structures and algorithms for general computer programming. It focuses on C++, but the information can be applied to any object-oriented language. Each chapter covers the manual creation of a set of data structures and where applicable, the C++ Standard Template Library counterpart. Topics range from arrays, recursion, and sorting, to trees, heaps, and graphs. The CD-ROM contains all the project files. Sherrod is the author of *Ultimate Game Programming with DirectX* and host of the website UltimateGameProgramming.com.
- QA76.76 2007-007644 978-1-59327-142-8
Designing BSD rootkits; an introduction to kernel hacking.
 Kong, Joseph.
No Starch Press, ©2007 136 p. \$29.95 (pa)
 A rootkit is a set of code designed to conceal processes, files, or system data from a computer's operating system. Although they have a negative image, these tools may be used for either productive or destructive purposes. Aimed at programmers with an interest in introductory kernel hacking, this text provides an overview of current, popular rootkit techniques. Rootkit detection and removal is covered in the final section. A self-taught programmer, Kong is a former system administrator for the City of Toronto.
- QA76.76 2007-011960 978-0-321-39820-8
Domain-specific development with Visual Studio DSL tools.
 Title main entry. Ed. by Steve Cook et al. (Microsoft .NET Development Series)
Addison-Wesley, ©2007 524 p. \$49.99 (pa)
 Cook, a software architect at Microsoft and one of the main designers of the Microsoft DSL Tools, offers a software developer's and architect's guide to using the tools included in the Software Development Kit for Microsoft Visual Studio 2005 for creating domain specific languages (DSLs). He explains how to create and use DSLs, how to tune them to specific needs, and how to employ them within the context of a project. The first and last chapters of the book discuss general issues of DSLs and their design, and the bulk of the book focuses on building DSLs and code generators using the DSL Tools. Screenshots are included on almost every page. The book will also be of value to readers who are interested in the broader general topic of DSLs, or who wish to compare and contrast different approaches to model-driven development.
- QA76.76 2007-007268 978-1-59904-210-7
Emerging free and open source software practices.
 Title main entry. Ed. by Sulayman K. Sowe et al.
IGI Publishing, ©2008 288 p. \$99.95
 Technological, mathematical, economic, business, social, and philosophical and among the aspects of free and open-source software that specialists from around the world consider. They do not attempt to survey or overview the field, but describe the practices that have evolved in their particular milieu or region. The general themes are empirical research, community structures and perception, tools for qualitative development, adoption in public and corporate environments, and case studies of successful and failed projects.
- QA76.76 2006-102505 0-321-37447-9
Essential Windows presentation foundation.
 Anderson, Chris. (Microsoft .NET Development Series)
Addison-Wesley, ©2007 458 p. \$49.99 (pa)
 Assuming familiarity with .NET, this reference explains how an application is built in Windows presentation foundation (WPF), and describes its control library, layout panels, display graphics, and typography. Later chapters tour data binding and templates, actions, events, commands, triggers, and styles. Code examples are provided in C#. The author served as an architect on Microsoft's WPF team.
- QA76.76 2007-270935 1-59059-646-3
Expert .NET 2.0 IL assembler.
 Lidin, Serge. (Expert's voice in .NET)
Apress, ©2006 501 p. \$59.99
 Lidin, a member of the Microsoft Phoenix team, offers a revision and extension of his previous book, *Inside Microsoft .NET IL Assembler* (2002). He explains how .NET 2.0 applications are built, how the runtime functions, and how to program in IL assembly language (ILAsm). He also explains how to build compilers and tools that generate ILAsm code and how to read and analyze the ILAsm code that the IL disassembler generates. Part I overviews ILAsm and common language runtime features, based on a simple sample program. Subsequent sections of the book discuss features of the runtime and corresponding ILAsm constructs, covering underlying structures, fundamental components, the execution engine, special components, and interoperation. The book is for .NET-oriented developers, and will prove especially useful to compiler developers who are targeting .NET.
- QA76.76 2006-287038 0-471-75491-9
Fedora 5 and Red Hat Enterprise Linux 4 bible. (CD-ROM included)
 Negus, Christopher.
John Wiley & Sons, ©2006 1068 p. \$49.99 (pa)
 This beginner's guide provides step-by-step procedures for installing the Fedora operating system and Linux applications, setting up user accounts, automating system tasks, and setting up a variety of server types. The DVD contains the entire Fedora Core 5 distribution, and the CDs contain Fedora 5 live, a network install, and extra software.

QA76.76 2007-014921 978-0-470-04687-6
Hacking Windows Vista.

Sinchak, Steve.

John Wiley & Sons, ©2007

316 p. \$24.99 (pa)

Windows Vista may be a major evolutionary step forward, but the operating system still needs tweaking. Assuming previous Windows experience, a holder of the most valued professional award from Microsoft explains how to make Vista's new features and interface more user-friendly and secure. Sinchak reassures users that they can take advantage of these tips to optimize performance without necessarily buying a new computer. A companion Web site is available.

QA76.76 2007-009429 0-321-36945-9

Implementing the IBM rational unified process and solutions; a guide to improving your software development capability and maturity.

Barnes, Joshua.

IBM Press, ©2007

184 p. \$39.99 (pa)

A consultant on such systems, Barnes provides organizations with a guide to implementing a process solution and tooling, drawing on what other companies have found works the best. He uses the IBM version, but says the procedure is about the same with any of those available. Readers can download actual implementation documents and tools to accompany the text.

QA76.76 2006-031363 978-1-59140-878-9

Intelligent assistant systems; concepts, techniques, and technologies.

Title main entry. Ed. by Roland H. Kaschek.

Idea Group Publishing, ©2007

326 p. \$99.95

Intelligent assistant systems are conceived in this volume as kinds of information software that "are interactive, user-adaptive problem solving aids that understand what they do, accept goals being set as input rather than instructions or deduce such goals, and, once these goals are identified, aim at solving them independently of the user." Kaschek (Massey U., New Zealand) presents 12 papers that explore issues associated with this vision. These issues include foundational problems such as human-computer interaction, computer learning aptitude, precursors of intelligent assistant systems in current search engines, the development of knowledge bases for natural language processing tasks, and means of formalizing user obligations and rights. They also include aspects of applying the "meme media technology" developed by researcher Yuzuru Tanaka for assistant systems and implications of assistant systems for human learning.

QA76.76 2006-929180 978-1-58603-640-9

Knowledge-based software engineering; proceedings.

Joint Conference on Knowledge-Based Software Engineering (7th: 2006:

Tallinn, Estonia) Ed. by Enn Tyugu and Takahira Yamaguchi.

(Frontiers in artificial intelligence and applications; v.140)

IOS Press, ©2006

338 p. \$138.00

Tyugu (Institute of Cybernetics, Tallinn U. of Technology, Estonia) and Yamaguchi (Keio U., Japan) present the proceedings of an August 2006 conference focusing on applications of artificial intelligence in software theory and practice, which featured the work of Japanese and Russian researchers predominately. Eighteen of the papers are featured under the heading "Software Engineering" and examine such topics as intelligent help for managing and training UML software engineering teams, software error estimation method for multi-component software projects, support method for source code modification in changing GUI widgets, deep semantics of visual languages, and detecting defects in object oriented designs using design metrics. Six papers address intelligent agents and include treatment of a correlation-driven reactive layer for situation-aware belief-desire-intention agent architecture, building agent-based appliances with complementary methodologies, and system support of diabetic self-treatments using mobile phones. New to the conference for 2006 is discussion of the semantic web, represented by six papers that examine such subjects as searching over public administration legal documents using ontologies, semantics driven development of software systems based on business ontologies, and temporal constraints using semantic web in role-based access control. A final group of seven papers discusses special techniques and applications, including categories for description of dynamic production systems, linguistic knowledge for search relevance improvement, and reasoning by structural analysis in intelligent decision support systems.

QA76.76 2007-019281 978-0-672-32962-3
Linux starter kit; quick start guide. (DVD-ROM included)

Title main entry.

Sams, ©2007

124 p. \$39.99 (pa)

SUSE Linux is introduced as Novell's candidate for the most widely-used open source operating system (OS). Rather than another A-Z reference or administrators'/developers' handbook, the guide is designed to quickly get SUSE Linux Enterprise Desktop 10 installed and running. Coverage include the choice of two graphical interfaces, YaST (Yet another Setup Tool), and the filesystem. The guide concludes with lists of resources and common commands. The companion DVD-ROM includes the complete OS, video lessons, and a dual-boot option to keep Windows on a computer while running Linux.

QA76.76 978-0-596-00952-6

Linux system administration.

Adelstein, Tom and Bill Lubanovic.

O'Reilly Media, Inc., ©2007

279 p. \$44.99 (pa)

Appropriate for Linux users and Unix administrators, this guide explains how to set up a Linux server on the internet, build a DNS server using BIND, install the ISPConfig software configuration system, and administer the Apache web server. Later chapters discuss load-balanced clusters, the dynamic host configuration protocol (DHCP), virtualization, bash shell commands, and tools for backing up data.

QA76.76 978-0-321-44192-8

Microsoft Windows Vista.

Magid, Larry and Dwight Silverman. (Peachpit learning series)

Peachpit Press, Inc., ©2007

403 p. \$29.99 (pa)

In this "quick reference guide to all that is Vista," two technology columnists introduce the latest major version (and the consumer and business editions) of the Microsoft Windows operating system since the release of Windows XP in 2001. In 16 lessons, they cover upgrading to Vista (after considering if your present PC is Vista-compatible); using its new features (e.g., ReadyBoost for flash drive use); security and gaming enhancements; and inevitably, troubleshooting.

QA76.76 2007-025607 0-672-32964-6

Microsoft XNA unleashed; graphics and game programming for Xbox 360 and Windows. (CD-ROM included)

Carter, Chad.

Sams, ©2008

524 p. \$49.99 (pa)

Assuming familiarity with Microsoft's .NET framework, this tutorial walks through the process of creating games with XNA game studio express. The author demonstrates how to set up a camera for viewing the 3D world, load 3D objects, add sounds, apply effects with shaders, manage game states, light a scene, and create a particle system. The CD-ROM contains the C# examples and an explosion generator tool.

QA76.76 2007-018467 978-0-13-235413-4

The official Ubuntu book, 2d ed. (DVD-ROM included)

Hill, Benjamin Mako et al.

Prentice Hall, ©2007

463 p. \$34.99 (pa)

This guide to the free operating system Ubuntu focuses on version 7.04 and is aimed at home and small business users, server administrators, and programmers. The authors outline installation, configuration, desktop productivity, games, management, support, desktop applications, customization, troubleshooting, and new topics such as its expanded multimedia functionality and Edubuntu offerings for schools and educational settings. The accompanying DVD includes the complete Ubuntu Linux operating system for installation on PCs. Hill serves on Ubuntu's Community Council governance board. The other authors are involved in the administration, community management, documentation, development, and testing of the software.

QA76.76 978-0-7695-2898-4
Principles of advanced and distributed simulation (PADS 2006); proceedings.

International Workshop on Principles of Advanced and Distributed Simulation (21st: 2007: San Diego, CA)
Computer Society Press, ©2007 229 p. \$197.00 (pa)
Papers from a June 2007 workshop reveal recent work in federated applications, asynchronous methods, data distribution and HLA, social science simulations, network simulation, optimistic parallel simulation, computer system simulations, and load balancing. Specific topics addressed include adaptive support for range queries via push-pull algorithms, asynchronous event-driven particle algorithms, macro-micro economic system simulation, and modeling and simulation of TCP MANET worms. Other subjects explored include parallel simulation of hybrid network traffic models, a federated simulation environment for hybrid systems, a flexible dynamic partitioning algorithm for optimistic distributed simulation, and a GPU-accelerated evaluation platform for high fidelity network modeling. There is no subject index.

QA76.76 978-1-59059-782-8
Pro WPF; Windows presentation foundation in .NET 3.0.

MacDonald, Matthew.
Apress, ©2007 980 p. \$49.99 (pa)
In this resource for professional Web developers, Microsoft MVP MacDonald offers in-depth coverage of all of the major features of the Windows Presentation Foundation (WPF). Topics include (for example) layout panels, dependency properties, control templates, and custom elements. It is assumed that the reader is familiar with the .NET platform, the C# language, and the Visual Studio development environment. Previous experience with Windows Forms is useful, but not necessary.

QA76.76 2005-5910113 978-0-672-32892-3
Red Hat Enterprise Linux 5 administration, unleashed.

Fox, Tammy.
Sams, ©2007 597 p. \$49.99 (pa)
This guide explains how to administer Red Hat Enterprise Linux 5 in any production environment, covering the entire system lifecycle, from planning and deployment through maintenance and troubleshooting. It provides guidelines for writing procedures and policies such as backup procedures and user management policies so that they are scalable for future growth, and explains new features of Red Hat Enterprise Linux 5 for virtualization and security. There is extensive coverage of network and web services, including the Apache HTTP sever, Sendmail e-mail services, and remote login with Open SSH. A concise writing style and step-by-step procedures allow readers to find information quickly. The book is for administrators who manage networks of all sizes. Fox is founder of the online *Red Hat Magazine*.

QA76.76 978-0-470-14873-0
Software engineering; Barry W. Boehm's lifetime contribution to software development, management, and research.

Title main entry. Ed. by Richard W. Selby.
Wiley-Interscience, ©2007 818 p. \$80.00
Boehm's career stretches from a brilliant practice in private industry to high-end government work and finally academia (software engineering, U. of Southern California). His projects now include studies of value-based software engineering, product models, property models and success models called "model-based system engineering and software engineering" (MBASE), and his publications, dozens of which appear here, date from the early 1970s onward. Sorted into chronological order by topic, Boehm's articles reflect the wide range of his research across his diverse career and include software architecture and quality, software economics, software tools, the early spiral model of software process, software risk management, emerging extensions in software process, software and systems management, the state of the art and practice of software engineering. He closes with comments on being a software engineer in the software century.

QA76.76 2007-001282 978-0-471-79371-7
Software testing; testing across the entire software development life cycle.

Everett, Gerald D. and Raymond McLeod.
Wiley-Interscience, ©2007 261 p. \$85.00
Intended to serve as the core textbook for university software testing courses, this book describes the fundamental concepts and approaches of the field. The approach adopted first examines the general mind-set of a tester using non-technical examples. It then presents a structured approach to software testing that emphasizes test planning and consists of the following components: specification, premeditation, repeatability, accountability, and economy. The volume also describes the choices of software testing approaches (static testing, functional testing, structural (non-functional) testing, and performance testing), and when during the software development cycle they are normally used, and takes the reader through a full software development lifecycle base on a project performed by the lead author for the State of Colorado. It concludes with coverage of testing complex applications and identification of future directions in testing.

QA76.76 2007-012299 0-7897-3689-6
Tricks of the Microsoft Windows Vista masters.

Bruzzese, J. Peter.
Que Publishing, ©2007 365 p. \$29.99 (pa)
Intended for power users, this guide identifies changes to the latest Windows operating system, describes the contents of the control panel, and explains the new administration tools and security enhancements. Later chapters highlight new features in Internet Explorer 7 and the Office applications, and survey the new networking center, backup and restore center, and group policy management console.

QA76.76 2007-020073 978-0-672-32951-7
Ubuntu unleashed, 2d ed. (DVD-ROM included)

Hudson, Andrew and Paul Hudson.
Sams, ©2008 871 p. \$49.99 (pa)
A mainstay of the Linux operating system, Ubuntu has become popular with users of commercial and open-source installations as a user-friendly distribution tool. The practitioner-authors keep it friendly, introducing novices to the software, its installation and post-installation configuration, then move on to describing associated systems and processes. They cover applications, printing, and games, then describe aspects of system administration (managing users, automatic tasks, backing up, restoring, and remote access), using Ubuntu as a server, programming Linux (using Perl and Python) and housekeeping, including securing machines, tuning performance and conducting advanced operations. The authors include a list of Ubuntu and Linux Internet resources and a DVD with the full 7.04 distribution for Intel x86 computers, the complete OpenOffice.org office suite and a host of additional programs and utilities.

QA76.76 2006-931790 0-9759828-7-7
VBA programming for Microsoft Office project; versions 98 through 2007.

Gill, Rod. (EPM learning)
MSPProjectExperts, ©2006 461 p. \$79.00 (pa)
Gill, a technologist and Microsoft Project Most Valuable Professional, provides guidance for increasing Microsoft Office Project productivity using Visual Basic for Applications (VBA). The book is for use with any version of Microsoft Project from Project 98 to 2007. Coverage begins with a section on Project VBA that is common to VBA for all Microsoft Office applications; it is a beginner's guide to how to enter, edit, test, and debug VBA code, but not a comprehensive one on VBA language. Sections that follow cover the specifics of Project VBA and skills needed to automate Microsoft Project, ending with a discussion of reading and writing data to Project databases and reporting in a Project Server database. Knowledge of Microsoft Project and an aptitude for programming are assumed.

QA76.76 2007-008442 978-0-321-41850-0
Visual Studio team system; better software development for agile teams.

Stott, Will and James Newkirk. (Microsoft .NET Development Series)
Addison-Wesley, ©2007 819 p. \$49.99 (pa)
Based on Beck's *Extreme programming explained*, this guide illustrates the application of agile software development practices to a five-developer team using Microsoft's Visual Studio 2005 team system. The authors explain version control, test-driven development, agile modeling, the framework for integrated testing, story cards for estimating team work, installation programs for deployment, the distributed system designer, the report designer, and lean thinking.

QA76.76 2007-008894 0-672-32953-0

Windows PowerShell unleashed.

Kopczynski, Tyson.

Sams, ©2007

306 p. \$39.99 (pa)

Microsoft's PowerShell is a command line shell and scripting language that allows IT professionals to more easily control system administration and accelerate the automation of tasks. This guide for intermediate-level system administrators covers the basics of PowerShell and explains how it relates to existing Windows scripting practices. Numerous command examples and working scripts illustrate the concepts discussed. Kopczynski (a consultant with Convergent Computing) has written extensively on Microsoft technologies.

QA76.76 978-0-596-00634-1

XQuery.

Walmsley, Priscilla.

O'Reilly Media, Inc., ©2007

491 p. \$49.99 (pa)

Walmsley presents the W3C XQuery 1.0 standard, which was finalized in January 2007, along with the background knowledge namespace, schemes, built-in types, and regular expression relevant to writing XML queries. Readers are assumed to be query writers with some knowledge of XML basics but not necessarily advanced knowledge of related technologies. Cover-to-cover, it serves as a tutorial; hunt-and-peck, it becomes a reference.

QA76.76 2006-103488 978-0-13-149505-0

XUnit test patterns; refactoring test code.

Meszaros, Gerard. (The Addison-Wesley Signature Series)

Addison-Wesley, ©2007

883 p. \$54.99

In this guide to creating automated tests using xUnit, Meszaros, a consultant in agile development, describes 68 patterns for making automated tests easier to write, understand, and maintain. The first part of the book is a detailed tutorial on test automation, covering everything from test strategy to test coding. The second part, a catalog of 18 frequently encountered "test smells," provides trouble-shooting guidelines for determining the root of problems and applying the best patterns. The third part of the book gives detailed descriptions of each pattern, including refactoring instructions illustrated with code samples in multiple programming languages. Material is also applicable to next-generation behavior-driven development frameworks such as RSpec and JBehave. The book will be used by developers, managers, and testers working with any agile or conventional development process.

QA76.87 2007-926988 978-0-7695-2875-5

Natural computation; proceedings; 5v.

International conference on Natural Computation (3rd: 2007: Hainan, China) Ed. by Jingsheng Lei et al.

Computer Society Press, ©2007

2100 p. \$478.00 (pa)

The papers contained within this massive five-volume set were presented at the Third International Conference on Natural Computation, held August 2007 in Haikou, Hainan, China (in conjunction with the Fourth International Conference on Fuzzy Systems and Knowledge Discovery, the proceedings of which have been published separately). Presenting original research by an international group of scientists, the 770 papers are organized into broad topics that include neural network learning algorithms, statistical neural network models and support vector machines, cognitive science, bioinformatics and biomedical engineering, pattern recognition and diagnostics, artificial immune systems, and hybrid intelligent computing and application. Author indexed only.

QA76.889 2006-931142 978-1-58603-660-7

Quantum computers, algorithms, and chaos; proceedings.

International School of Physics "Enrico Fermi" (2005: Varenna, Italy)

Ed. by G. Casati et al. (Proceedings of the International School of Physics "Enrico Fermi"; course 162)

IOS Press, ©2006

606 p. \$238.00

Held in July of 2005 at Italy's International School of Physics "Enrico Fermi," a special course was organized to bring together researchers from physics, mathematics, and computer science to give lectures on quantum information processing and communication. Covering both experimental physical implementations of quantum information processors and theoretical aspects of quantum computation and quantum communication, the course's 16 lectures discussed fundamentals of quantum computing; quantum logic, information, and entanglement; quantum algorithms; error-correcting codes for quantum computations; quantum measurements and control; quantum communications; quantum optics and cold atoms for quantum information; quantum computing with solid-state devices; theory and experiments for superconducting qubits; interactions in many-body systems, quantum chaos, disorder, and random matrices; decoherence effects for quantum computing; and future prospects of quantum information processing.

QA76.9 2007-921603 978-0-7695-2825-0

3D data processing, visualization and transmission; proceedings.

International Symposium on 3D Data Processing, Visualization and Transmission (3d: 2006: Chapel Hill, NC) Ed. by Marc Pollefeys et al.

Computer Society Press, ©2007

1120 p. \$324.00 (pa)

This volume collects the five invited papers, 28 oral presentations, and 109 posters from the June 2006 symposium. The invited papers focus on urban modeling and 3D coding and transmission while the regular papers explore 3D navigation, geometric modeling, visual hulls, multiple view reconstruction, and view planning. The contributors propose a recursive multi-frame planar parallax algorithm, histogram matching for camera pose neighbor selection, an automatic 3D ear recognition system, and range image registration based on circular features. Other topics include 3D city modeling using cognitive loops, point containment in discrete arbitrary dimension, RDTC streaming for remote browsing in image-based scene representations, and 3D skeleton-based body pose recovery. No subject index is provided.

QA76.9 2007-007061 978-0-470-04702-6

Access 2007 VBA bible; for data-centric Microsoft applications.

Feddema, Helen.

John Wiley & Sons, ©2007

700 p. \$39.99 (pa)

This guide provides tutorials and practical applications, in addition to reference and background information, on writing VBA code to exchange data among the main Microsoft Office applications, using Access as the central application for storing data. Written for the Access/Office developer or power user who is familiar with Office applications and VBA code, it covers Access, Word, Excel, and Outlook components and selecting a specific one for a task; working with Access data, Word documents and templates, Excel worksheets, Outlook items, files and folders, external data, and synchronization; and creating COM add-ins, Access add-ins, customizing the ribbon, creating standalone scripts, and working with SQL server data. Feddema, an independent developer specializing in Microsoft Office applications, has written several books on Microsoft Access and is the editor of Access Watch.

QA76.9 2007-013839 978-0-470-04703-3

Access 2007 VBA programmer's reference, 2d ed.

Title main entry. Ed. by Teresa Hennig et al.

John Wiley & Sons, ©2007

1110 p. \$39.99 (pa)

Intended for VBA programmers and experienced Access users, this guide explains how to access data with objects, customize forms and reports, transfer information between Access and other applications, secure databases with VBA code, declare API functions, and build SQL statements. The second edition adds a chapter on the ribbon interface and an appendix on upgrading to Access 2007.

QA76.9 978-0-321-44946-7

Adobe Acrobat 3D version 8. (CD-ROM included)

Title main entry.

Adobe Press, ©2007

223 p. \$59.99 (pa)

This guide describes the features of Adobe Acrobat 3D Version 8 in 10 lessons. Lessons cover the toolkit, work area, converting 3D design files to Adobe PDF, working with PDF models, using Acrobat 3D in the manufacturing workflow, adding security, reviewing and commenting, creating 2D graphics and animations, using models in technical publishing, and adding 3D content to Microsoft Office files. Familiarity with the basic tools and features in Adobe Acrobat 8 is assumed, as is knowledge of 3D concepts and modeling applications. The CD-ROM contains lesson files and instructional movies.

QA76.9 978-0-470-02760-8

Advances in fuzzy clustering and its applications.

Title main entry. Ed. by J. Valente de Oliveira and W. Pedrycz.

John Wiley & Sons, ©2007

434 p. \$130.00

Once the stuff of which we dreamt, fuzzy clustering is now a mature area of research with new applications and methods of study emerging constantly. This collection of research concentrates on new research and that used to counter traditional issues, focusing on the algorithmic and computational augmentations of fuzzy clustering and on presenting the important and relevant phases of cluster design, including information granules, fuzzy sets in the realization of the human-centric facet of data analysis, and system modeling. Contributors give a solid background, then cover relational fuzzy clustering, Minkowski distance functions, soft cluster ensembles, visualization, algorithms and computational aspects such as fuzzy clustering to fuzzy data and infusion-based fuzzy clustering, fuzzy regression clustering, real-time and dynamic clustering, and a wide range of applications in such areas as exploratory analysis, content induction and classification.

QA76.9 2006-924779 1-58603-615-7
Advances in intelligent IT; active media technology 2006; proceedings.

International Conference on Active Media Technology (4th: 2006: Queensland) Ed. by Yuefeng Li et al. (Frontiers in artificial intelligence and applications; v.138)
IOS Press, ©2006 456 p. \$114.00

Active media technology is a new area of intelligent information technology and computer science characterized by developments in human-centered, seamless computing environments, interfaces, devices, and systems, with applications ranging from business and communication to entertainment and learning. In an effort to encourage collaborative research in the field, a 2006 conference brought together researchers from diverse areas, including Web intelligence and data mining, to exchange ideas on applications such as information foraging agents, e-commerce and web services, ontology mining, smart digital media, human-centered robotics, agent-based software engineering, and social applications of active media. This proceedings collects papers presented at the conference. Li is affiliated with Queensland University of technology, Australia. There is no subject index.

QA76.9 2007-009580 0-672-32932-8
Alison Balter's mastering Microsoft Office Access 2007 development.

Balter, Alison.
Sams, ©2007 1268 p. \$59.99 (pa)

Balter, a developer consultant/author of several Sams' books on Microsoft Access and SQL Server, introduces the skills needed to develop applications in Access 2007. For beginners, she offers coverage of the database basics of building queries, forms, and reports. The next level covers macros, VBA (Visual Basics for Applications) language, objects, properties, methods, and events. More advanced instruction treats class modules, ActiveX data objects, debugging and optimization. Appendices (downloadable from a companion website) cover naming conventions and tables structures. A trial subscription to an online version of the book is available.

QA76.9 2007-001277 978-0-470-11486-5
Applied cryptanalysis; breaking ciphers in the real world.

Stamp, Mark and Richard M. Low.
John Wiley & Sons, ©2007 401 p. \$85.00

Stamp (computer science) and Low (mathematics, both San Jose State U., California) introduce applied cryptanalytic attacks in a form accessible to motivated upper-division undergraduate students in any technical field of study. They strive to minimize advanced mathematics, and append some they cannot avoid. Even so, they warn that the material is tough and cannot be grasped unless readers solve at least some of the problems provided. The arrangement is by types of ciphers: classic, World War II, stream, block, hash functions, and public key systems. An instructor's manual is available.

QA76.9 2007-272724 1-59059-693-5
Beginning Hibernate; from novice to professional.

Minter, Dave and Jeff Linwood.
Apress, ©2006 336 p. \$39.99 (pa)

This software product, which allows users to save normal Java objects into a relational database and retrieve them without having to use SQL code. The authors note that this is not a simple process, and that the product, once used in an application, is going to stay there forever. Their approach is to start with the basics and then work toward the smaller details that apply to your specific project, so they even cover integration methods. They begin with configuration, then immediately build a simple application to get readers' appetites going. They describe the persistence life cycle, mapping, mapping with annotations, creating mappings with the product's XML files, using the session feature, conducting searches and queries, making advanced queries, filtering the results of searches, and taking on advanced features. They even include directions for upgrading from the previous version, something that should become standard in such texts.

QA76.9 2007-296384 1-59059-711-7
BizTalk 2006 recipes; a problem-solution approach.

Title main entry. Ed. by Mark Beckner et al.
Apress, ©2006 533 p. \$59.99 (pa)

This reference presents BizTalk integration scenarios and solutions related to areas such as document schemas, document mapping, messaging, orchestration, and activity monitoring. The "recipes" are intended as hands-on exercises, introducing developers and administrators to the different BizTalk Server 2006 components. Recipes are organized by problem statements. Each problem is presented with a practical solution, followed by a discussion of alternatives and best practices. Readers should have BizTalk Server 2006, SQL Server 2005 or 2000, and Visual Studio 2005. The author works in enterprise application integration.

QA76.9 2007-928105 978-0-7695-2912-7
British National Conference on databases; workshop proceedings.

British National Conference on Databases (24th: 2007: Glasgow, UK)
Computer Society Press, ©2007 151 p. \$188.00 (pa)

Papers from two workshops at a July 2007 conference bring together recent work in teaching, leaning, and assessment of databases, and Web information management. Papers having to do with the teaching and learning of databases cover areas such as adopting a student-centered approach, teaching databases internationally, teaching and assessing a data warehouse design course, and teaching and learning applications related to the automated interpretation of ERDs. Papers on Web information management examine topics including integrity checking and maintenance with Active Rule in MXL databases, compressed materialized views of semi-structured data, a workflow model for multi-channel applications, determining output schemas of XQuery queries, and XML query optimization using the binding hash method. There is no subject index.

QA76.9 978-0-7695-2854-0
Computer arithmetic; proceedings.

IEEE Symposium on Computer Arithmetic (18th: 2007: Montpellier, France)
Computer Society Press, ©2007 269 p. \$197.00

These proceedings of the June 2007 symposium include 28 papers on recent advances in the theory and implementation of number systems and basic arithmetic operations to hardware implementation of complete arithmetic units and their language support. General topics include the decimal floating point (including solving constants on the intermediate results of decimal floating point operations), floating point implementation (including a P6 floating point unit and a new architecture for multiple-precision floating point multiply-add fused unit design), floating point issues and operations, crypto algorithms (including asymmetric squaring formulae and spectral modular exponentiation), elementary functions (including a return to hardware), and modular operations. Special topics include an accurate multiple-precision Gauss-Legendre quadrature.

QA76.9 2007-927274 978-0-7695-2894-6
Computer information systems and industrial management applications; proceedings.

Int'l conference on Computer Information Systems and Industrial Management Applications (6th: 2007: Elk, Poland) Ed. by Khalid Saeed et al.
Computer Society Press, ©2007 388 p. \$308.00 (pa)

Sixty papers and eight keynote presentations from the June 2007 conference discuss emerging information system development and its application in digital information management, internet security, data mining, image processing, and optimization. The contributors address data analysis and knowledge discovery tools, decision support systems, graphical user interfaces, web intelligence, cryptography, and robotics. Topics include obfuscation as intellectual rights protection in VHDL language, nonlinear and frequency analysis of the weather in Bialystok, the optimization of public transport travel, and a wireless sensor network for intravenous drip systems. No subject index is provided.

QA76.9 2007-28874 978-0-7695-2819-9

Computer security foundations; proceedings.

International Computer Security Foundations Symposium (20th: 2007: Venice, Italy)

Computer Society Press, ©2007 397 p. \$203.00 (pa)

This proceedings volume contains 25 papers from a July 2007 symposium, organized in sections on authorization, multi-layer protocols and key conjuring, cryptographic foundations, secure implementation, information flow, privacy, vulnerability analysis and information-theoretic security, and security protocol analysis. Some specific topics examined include secure implementations for typed session abstractions, automaton-based confidentiality monitoring of concurrent programs, a flow-sensitive analysis of privacy properties, and creating vulnerability signatures using weakest preconditions. Other topics are probability of error in information-hiding protocols, causality-based abstraction of multiplicity in security protocols, LTL model checking for security protocols, and programmatic access control with explicit identities. No index.

QA76.9 2006-298558 978-1-59140-926-7

Contemporary issues in end user computing.

Title main entry. Ed. by M. Adam Mahmood. (Advanced topics in end user computing series)

Idea Group Publishing, ©2007 337 p. \$94.95 (pa)

This volume reprints 13 articles published in the *Journal of Organizational and End User Computing* during 2006, focusing on end user characteristics and learning, computing software and trends, and web-based end user computing tools and technologies. Topics include internet use among employees, computer conferencing in a dispersed negotiation setting, the diminishing role of age and gender in computer usage, and commercialized business software specifications for consumers.

QA76.9 2006-924056 1-58603-604-1

Cooperative systems design; seamless integration of artifacts and conversations—enhanced concepts of infrastructure for communication; proceedings.

International Conference on the Design of Cooperative Systems (7th: 2006: Carry-le-Rouet, France) Ed. by Parina Hassanaly et al. (Frontiers in artificial intelligence and applications; v.137)

IOS Press, ©2006 287 p. \$108.00

The editors (of Ruhr-U. Bochum in Germany and the U. de Technologie de Troyes and U. Aix Marseille III Paul Cezanne in France) present the proceedings of the May 2006 seventh International Conference on the Design of Cooperative Systems, which brought together researchers from computer science, organizational and management sciences, sociology, psychology, anthropology, ergonomics, linguistics, and other fields relevant to the modeling of collaborative work mediated by technology, design methodologies for cooperative work analysis and cooperative systems design, cooperation-supporting technologies, and socio-technical aspects of cooperative systems applications. Adopting “seamless integration of artifacts and conversations—enhanced concepts of infrastructure for communication” as its theme, the conference addressed such topics as analysis of collaborative work situations, conceptual frameworks for understanding cooperative work, guidelines for designing cooperative systems, the influence of new technologies such as mobile computing and ubiquitous computing on cooperation, expertise sharing and learning in cooperative work, communities and new forms of organization, innovative technological solutions and user interfaces, and methods for participatory design of cooperative systems.

QA76.9 978-1-84564-081-1

Data mining; data, text and web mining and their business applications VIII; proceedings.

International Conference on Data Mining (8th: 2007: The New Forest, England) Ed. by A. Zanasi et al. (WIT Transactions on Information and Communication Technologies; v.38)

WIT Press, ©2007 346 p. \$235.00

Will this young but not nascent industry eventually consolidate or start to find boundaries in its research? According to these proceedings of the 2007 conference it appears the potential applications are still vast and the discipline provides solutions for complex and delicate questions. The papers here cover such topics as categorization methods (including bio-inspired metaheuristic approaches), data preparation (including genetic algorithms in a dynamically changing environment), enterprise information systems (including a double wave warehouse lifecycle model), mining environment and geospatial data (including that sought in a transductive setting), text mining (including the challenges facing search engines), applications in business and government (including self-regulated learning strategies and physician use of the Internet), customer relationship management (including marketing analysis and assessment of service) and national security (terrorist finance, multilingual open source intelligence and encryption systems). The US office of WIT Press is Computational Mechanics.

QA76.9 2006-025099 978-0-471-66655-4

Data mining the Web; uncovering patterns in Web content, structure, and usage.

Markov, Zdravko and Daniel T. Larose.

Wiley-Interscience, ©2007 218 p. \$70.00

Markov and Larose (computer science and statistics respectively, Central Connecticut State U.) seek ways to extract knowledge rather than merely come up with a pile of data by finding meaningful connections in the information spread across the web. With plenty of examples to guide readers from the basics to advanced techniques Markov and Larose cover the basics of web structure mining, including information retrieval and web searches and hyperlink-based ranking, web content mining, including clustering, evaluating clustering and classification and web usage mining, including preprocessing, exploratory data analysis, and modeling for web usage mining through clustering, association and classification.

QA76.9 2006-038737 978-0-471-79049-5

Data modeling fundamentals; a practical guide for IT professionals.

Ponniah, Paulraj.

Wiley-Interscience, ©2007 436 p. \$100.00

Data modeling is essential in such fields as architecture, in which practitioners create plans and models to test ideas and ensure structures are buildable. Information technology (IT) departments within any enterprise are similarly charged, and their digital models often determine whether a firm will succeed in virtually any part of the organization. For those who design such models, consultant and adjunct professor Ponniah offers a desk reference that overviews data modeling concepts and techniques, gives the anatomy of a data model and its various components, identifies relationships amongst entities within the model, gives links from data modeling to database design and implementation, describes decision support systems and reveals upcoming trends. The resulting mix of basic and advanced information should appeal to mature practitioners as well as novices in data modeling.

QA76.9 2006-027721 978-1-59904-364-7

Data warehouses and OLAP; concepts, architectures, and solutions.

Wrembel, Robert and Christian Koncilia.

IRM Press, ©2007 332 p. \$89.95

Wrembel (databases, Poznan U. of Technology, Poland) and Koncilia (applied computer science, U. of Klagenfurt, Austria) present this reference for data warehouse designers, administrators, programmers, and project managers comprising theoretical and technical discussion of many issues related to the integration of multiple data sources in the data warehouse architecture using online analytical processing (OLAP). Eight stand-alone chapters address topics such as: conceptual modeling solutions, structural heterogeneity in OLAP, data quality-based requirements elicitation for decision support systems, advanced ad hoc star query processing, data warehouses and indexing, OLAP with a database cluster, and spatial OLAP concepts, among others.

QA76.9 2007-006863 978-0-8204-8837-0

Digital contagions; a media archaeology of computer viruses.

Parikka, Jussi. (Digital formations; v.44)

Peter Lang Publishing Inc, ©2007 327 p. \$35.95 (pa)

Drawing inspiration from the history of industrial accidents and the history of disease, Parikka (media studies, Humboldt U., Berlin) analyzes the network accident of computer viruses as part of the digital culture of Western modernity, focusing on the high era of computerization from the 1970s to the middle 1990s. He argues that the crucial issues, discussions, and positions concerning viruses and worms were already visible before the middle 1990s.

QA76.9 2006-027724 978-1-59904-066-0

Emerging technologies of augmented reality; interfaces and design.

Title main entry. Ed. by Michael Haller et al.

Idea Group Publishing, ©2007 399 p. \$99.95

Arguing against the idea that sometimes there is too much reality, this collection illuminates the burgeoning field of augmented reality (AR)/mixed reality by describing the neglected area of interface design from the foundation level upward. Topics include vision-based 3D tracking and pose estimation, developing AR systems in the presence of spatial uncertainty, head mounted displays, augmentation based on cell phones and projectors, representing and processing screen space, abstraction and implementation strategies, supported early design activities, outdoor modeling, lessons learned in designing interfaces, human communications in collaborative systems and interaction design for tangible applications. Case studies include those used in industry, virtual environments, memory-making and preserving, physical interactivity and gaming.

QA76.9 2007-013520 978-0-470-13411-5

Expert SQL server 2005 integration services.

Knight, Brian and Erik Veerman.

John Wiley & Sons, ©2007 404 p. \$49.99 (pa)

This guide shows how to apply SSIS functionality to several common industry areas, including data warehouse extraction, transformation, and loading (ETL), data integration ETL, and advanced ETL development and administration. Accessible to those with and without previous ETL background, the guide first provides background and foundation information on scripting and data extraction, and then gives details on data warehousing ETL, error handling, administration, and data integration. There are also chapters on migrating to SSIS and scaling SSIS. The book is targeted to ETL data architects, ETL developers, and database administrators responsible for SSIS, and assumes the developer edition of SQL Server 2005 with SP2 installed. Knight is a contributing columnist for *SQL Server Standard*. Veerman is a winner of *SQL Server Magazine's* Innovator Cup award.

QA76.9 2007-002478 978-1-58488-550-4

Handbook of approximation algorithms and metaheuristics.

Title main entry. Ed. by Teofilo F. Gonzalez. (Chapman & Hall/CRC computer & information science; 10)

Chapman & Hall/CRC, ©2007 — p. \$129.95

For some time this study has received significant attention, and one happy result is the encyclopedic approach taken here in over 85 articles. Covering fundamental and theoretical topics as well as advanced practical applications, this starts with basic approaches and works up to the advanced with full methodologies that include restriction, greedy, relaxation, rounding, primal-dual, local search, transformation and especially metaheuristics. It includes such topics as local search, neural networks, multi-objective optimization, sensitivity analysis, stability, traditional applications, computational geometry and graph applications, and a very interesting range of large-scale and emerging applications. This reference will serve practitioners as well as senior undergraduates and first-year graduate students well, although the enthusiasm and new research it will likely engender may produce a new edition sooner than one might expect.

QA76.9 2006-935041 1-58603-678-5

Information assurance and computer security; proceedings.

NATO Advanced Research Workshop on Information Assurance and Computer Security (2005: Tetouan, Morocco) Ed. by Johnson P. Thomas et al. (NATO security through science series; v.6)

IOS Press, ©2006 203 p. \$144.00

The conference allowed researchers with mature projects in Europe and North America to interact closely with North African researchers working on fledgling computer security programs. They focused on the four main challenges facing computer security: formulating theoretical models, developing tools and languages to ensure security, designing new secure architectures, and applying security models. Only the authors are indexed.

QA76.9 2006-048504 0-8493-7495-2

Information security management handbook, 6th ed.

Tipton, Harold F. and Micki Krause.

Auerbach Publications, ©2007 3231 p. \$159.95

The 227 chapters contained in this handbook address a broad range of issues pertinent to information security and organizational management of information security. The volume opens with treatment of security management concepts and principles; change control management; data classification; risk management; policies, standards, procedures, and guideline; security awareness training; security management planning; and Internet and computer ethics. It then discusses access control in sections covering access control techniques, access control administration, identification and authentication techniques, access control methodologies and implementation, methods of attack, and monitoring and penetration testing. Cryptographic concepts, methodologies, and practices are examined alongside the related topics of private key algorithms, public key infrastructure, and system architectures for cryptographic functions. Physical (environmental) security is addressed, as is computer and network security architecture and design and planning for business continuity and disaster recovery. A large number of chapters variously address relevant topics concerned with telecommunications security, application security, or operation security. The final section discusses law, regulatory compliance, and investigations. Distributed in the US by Taylor & Francis.

QA76.9 2006-033770 1-59904-252-5

Knowledge discovery and data mining; challenges and realities.

Title main entry. Ed. by Xingquan Zhu and Ian Davidson. (Premier reference source)

Information Science Reference, ©2007 274 p. \$165.00

The 13 contributions in this collection share experiences with the application of data mining methods to software quality estimation, multimedia computing, biology, clinical trials, finance, and banking. Topics include genome-wide analysis of epistasis, cross-modal correlation mining using graph algorithms, a decision tree for remotely sensed image data, the business impact of predictive analytics, and semantics enhancing knowledge discovery. The final three chapters on traditional data mining algorithms explore the Dempster-Shafer theory for handling imperfect data, self-organized maps for outlier detection, and rough set theory for estimating error rates.

QA76.9 2006-041348 978-0-89871-626-9

Matrix methods in data mining and pattern recognition.

Eldén, Lars. (Fundamentals and algorithms; 04)

SIAM, ©2007 224 p. \$69.00 (pa)

Eldén (numerical analysis, Linköping U.) uses as examples handwritten digits, text summarization, pagerank computations made famous by a certain very popular search engine (the name of which is now used as a verb) and face recognition to explain how to use very powerful linear algebra techniques to mine data and recognize patterns. He introduces vectors and matrices in data mining and pattern recognition, then gives more details on vectors and matrices, including their inner products, vector norms and linear independence bases. He explains linear systems and least squares, orthogonality, QR decomposition, singular value decomposition, reduced-rank least squares models, tensor decomposition, clustering and nonnegative matrix factorization. In the next section he applies the abstract to real life, throwing in an exercise on extracting an automatic key word and key sentence, and closes with instructions on computing matrix decomposition, including computing eigenvalues and singular values.

QA76.9 2007-010362 0-7897-3669-1

Microsoft Office Access 2007 forms, reports, and queries.

McFedries, Paul.

Que Publishing, ©2007 387 p. \$39.99 (pa)

Acknowledging that Access is more intimidating than Excel or Word (its Office partners), the author of many books on Microsoft products covers the information needed to collect, extract, and present data embedded *somewhere* in their Access tables. McFedries's explanations, practical tips, case studies, and examples of creating basic and specialized forms, reports, and queries address business end-users rather than computer professionals. A trial subscription to an online resources is offered.

- QA76.9 2005-927727 0-7645-9927-5
Microsoft SQL Server 2005 Express Edition for dummies.
 Schneider, Robert. (For dummies)
 John Wiley & Sons, ©2006 390 p. \$24.99 (pa)
 Web developers and administrators can use this reference to find tips on installing and using Microsoft SQL Server 2005 Express Edition. Chapters provide an overview of the new version and offer advice for: setting up the software, administering and managing a system, distributing data with replication, adding and accessing a database, protecting data, programming, and creating applications, among other tasks. Additional resources are listed, and the appendices contain advice on migrating data. SQL Server 2005 Express Edition is provided on the accompanying CD-ROM.
- QA76.9 2007-273310 1-59059-679-X
Pro Oracle collaboration suite 10g.
 Watson, John. (The expert's voice in Oracle)
 Apress, ©2006 437 p. \$64.99
 Watson, who has been using this suite from its first release, gives readers tools that makes a potentially gargantuan project no less big or comprehensive but easier to handle and understand. He covers the functionality behind the user interface, application server architecture and components, suite architecture, deployment and installation, management and control utilities, management of applications and identities as well as users, configuration of calendar and contents services, handling discussions and mail, mobile collaboration, real-time collaboration, search functions, voice mail and fax functions, workspaces, logging, monitoring, tuning, maintenance, backup and restore, fault tolerance and managing for high availability.
- QA76.9 2007-020219 0-672-32922-0
Microsoft SQL server 2005 compact edition.
 Dhingra, Prashant and Trent Swanson.
 Sams, ©2008 601 p. \$59.99 (pa)
 Two project managers at Microsoft explain how to build SQL server compact edition databases for embedded systems in mobile and desktop applications, and how to synchronize data between SQL server and the compact edition with merge replication and remote data access. The guide discusses Transact-SQL syntax, the SQL server management studio, query analyzer, ADO.NET, native access, operators, built-in functions, security features, and performance tuning.
- QA76.9 2006-927922 1-58603-625-4
Proof technology and computation; proceedings.
 NATO Advanced Study Institute on Proof Technology and Computation (2003: Marktobderdorf, Germany) Ed. by Helmut Schwichtenberg et al. (NATO science series; series III, Computer and systems sciences; v.200)
 IOS Press, ©2006 445 p. \$156.00
 Based upon those given at the Marktobderdorf Summer School in 2003, this set of lectures addresses the systematic application of mathematical proof in software engineering, the goal being to integrate proof processing into industrial design and verification tools. Topics include information-intensive proof technology, an introduction to proof theory, the abstraction-refinement framework in model checking, industrial applications in verification, computability and complicity with termination, steps toward a Java-like language, the formulae-as-classes interpretation of constructive set theory, constructive analysis (with witnesses), predicates as types, automatic and logic based systems design, and recursion and proofs. Each lecture includes a set of references.
- QA76.9 2007-018683 978-0-13-233953-7
Mining the talk; unlocking the business value in unstructured information.
 Spangler, Scott and Jeffrey Kreulen.
 Prentice Hall, ©2008 217 p. \$44.99 (pa)
 To an organized mind seeking information, the word processing documents, web sites, spreadsheets and random databases of any enterprise pass almost as a blur. How can someone trained to be logical find a way to sort what appears to be illogical and enormous amounts of information and glean important intelligence about customers, competitors and inside operations? The authors, senior IBM staff members, take data miners, non-specialist technical personnel and managers through a step-by-step process to determine what is important and what is not in that blur of information. They show how to understand business objectives and innovation processes for customers and employees, , develop a taxonomy to filter information, refine that taxonomy to get higher quality information faster, look for trends and correlations, and conduct a stakeholder review. The authors include plenty of examples and include commentary on future applications and a copy of the official IBM manual.
- QA76.9 2006-038895 978-1-56881-314-1
Reconfiguring the firewall; recruiting women to information technology across cultures and continents.
 Title main entry. Ed. by Carol J. Burger et al.
 AK Peters Ltd., ©2007 279 p. \$45.00
 Factors that influence the decision by girls and young women to enter computer based fields are explored in 11 papers from a July-August 2005 conference sponsored by the National Science Foundation and big computer companies eager for female employees who will accept 70% of the pay their male colleagues receive. Scholars of computer science and related fields consider secondary and post-secondary school, and information technology careers.
- QA76.9 2006-931539 978-1-58603-661-4
Multi-relational data mining.
 Knobbe, Arno J. (Frontiers in artificial intelligence and applications; v.145)
 IOS Press, ©2006 118 p. \$106.00 (pa)
 Practitioner Knobbe gives insight on extracting useful insights from large and detailed collections of data cheaply and efficiently. He focuses on relational database theory, applied as multi-relational data mining (MRDM). He covers the theories behind structured data mining, multi-relational data, multi-relational patterns, multi-relational rule recovery, multi-relational decision tree induction, aggregate functions and pre-positionalization, aggregate functions and rule discovery, MRDM primitives, MRDM in action as a blueprint and project and then as a way to locate transformation rules, and the validity of the MRMD approach.
- QA76.9 2006-032160 1-59904-271-1
Research and trends in data mining technologies and applications.
 Title main entry. Ed. by David Taniar. (Advanced topics in data warehousing and mining; v.1)
 Idea Group Publishing, ©2007 339 p. \$94.95
 Taniar (Monash U., Australia) presents 12 papers by authors and editorial board members from the *International Journal of Data Warehousing and Mining*. The papers discuss data mining techniques applied to data warehouse Web logs, data cubes, and high-dimensional datasets; techniques utilizing pattern comparisons, frequent patterns, and vertical mining patterns; data mining applications in bioinformatics, including hierarchical classification, topological analysis, and sub-network mining; and data-mining techniques using multiple criteria optimization, support vector machine classifiers, graph-based mining, and Web services.
- QA76.9 2006-937305 978-0-7695-2767-3
Policies for distributed systems and networks; proceedings.
 IEEE International Workshop on Policies for Distributed Systems and Networks (8th: 2007: Bologna, Italy)
 Computer Society Press, ©2007 284 p. \$201.00 (pa)
 As new technologies mature, or take hold in various formats or configurations, master practitioners and leading industries must assemble policies that will make these technologies work across a variety of applications. These proceedings for the June 2007 workshop include materials on the invited talks and posters, as well as the papers, which cover modeling policies, policy design and management, XML-based policies, policy languages, software policy languages, policy enforcement, policy analysis and semantic enhancements, policy negotiations and resolution, and applications.
- QA76.9 2006-033967 978-0-8493-7921-5
Security in distributed, grid, mobile, and pervasive computing.
 Xiao, Yang.
 Auerbach Publications, ©2007 420 p. \$89.95
 Computer scientists from North America, Europe, and China synthesize the current research in security for the four types of computing, considering such aspects as key management and agreement, authentication, intrusion detection, false data detection, secure data aggregation, anonymity, privacy, access control, and standardization. Distributed in the US by Taylor and Francis.

- QA76.9 2007-010226 978-0-321-42477-8
Secure programming with static analysis. (CD-ROM included)
 Chess, Brian and Jacob West.
Addison-Wesley, ©2007 567 p. \$49.99 (pa)
 When programmers, or more properly their code, face the big ugly world out there, both must be prepared to deflect digital bullets. Consultants and practitioners Chess and West support using the technique of static analysis, which will uncover errors of omission and commission that could let a monster into the works. Focusing on the 70 or so most common security defects, they delineate the real software security problems out there and introduce static analysis, including its use as part of the code review process. They describe static analysis internals and then turn to pervasive problems, such as input, buffer overflow, errors and exceptions and examine feature, including web applications, XML and web services, business and personal privacy and secrets and privileged programs. They also supply nearly 20 extended exercises for C and Java with answers.
- QA76.9 2007-927952 978-0-7695-2925-7
Services computing; proceedings.
 IEEE Int'l Conference on Services Computing (2007: Salt Lake City, UT) Ed. by Liang-Jie (Lj) Zhang et al.
Computer Society Press, ©2007 750 p. \$255.00 (pa)
 The proceedings of the July 2007 conference consists of 29 research papers, six short papers, 50 industry papers, and 19 works in progress. The research papers explore service-oriented architecture, business process integration, service agreements, work flow management, and web service discovery. The industry papers describe a distributed e-healthcare system, fault-tolerant middleware architectures for storage services, a public administration domain ontology, agent-mediated knowledge sharing, and efficient integration of web services in portals.
- QA76.9 2007-926796 978-0-7695-2861-8
Service-oriented computing and applications; proceedings.
 IEEE International conference on Service-Oriented Computing and Applications (2007: Newport Beach, CA) Ed. by Kuo-Ming Chao et al.
Computer Society Press, ©2007 318 p. \$193.00 (pa)
 These 37 papers from the June 2007 conference explore web services technologies, service-oriented architectures, service systems development, operational models, services quality, application development, and runtime services. The researchers present a new approach to the formal verification of workflow-based compositions of web services, an ontology-based dynamic process collaboration framework, and a network description for high-performance grid computing. Other topics include negotiating agreements using policies in ubiquitous computing scenarios, improving transparent adaptability in web service composition, allocating services to applications using Markov decision processes, and runtime testing of third party web services. No subject index is provided.
- QA76.9 2006-025587 978-1-4200-4418-8
Simulation of dynamic systems with MATLAB and SIMULINK.
 Klee, Harold.
CRC / Taylor & Francis, ©2007 762 p. \$129.95
 Klee (University of Central Florida) derives mathematical models of continuous-time systems and the discrete-time system models created to simulate them. The two-semester textbook explores how linear time invariant systems respond to different inputs, provides Matlab code examples, introduces the continuous simulation program Simulink, explains one-step methods and multistep formulas for numerical integration, and addresses dynamic errors.
- QA76.9 978-0-7695-2893-9
Software engineering education & training; proceedings.
 Conference on Software Engineering Education and Training (20th: 2007: Dublin, Ireland) Ed. by Helen Edwards and Ramanathan Narayanan.
Computer Society Press, ©2007 369 p. \$205.00 (pa)
 A July 2007 conference on software engineering education emphasized issues arising in the specific context of globalized software development. Forty papers from the conference are presented here in sections on student projects, educational theory and pedagogy, meeting the needs of industry, curriculum and design of courseware, learning environments and tools, drivers for effective software engineering education, innovative tools for delivery of instruction, software architecture in software engineering education, and larger societal aspects. Some specific topics examined include increased retention of computer science and software engineering students using pair programming, using students as subjects in experiments, student collaboration using wikis, and laptop enabled active learning in the classroom.
- QA76.9 2007-008959 0-7897-3597-0
Special edition using Microsoft Office Access 2007. (CD-ROM included)
 Jennings, Roger.
Que Publishing, ©2007 1460 p. \$49.99 (pa)
 Like Access, this hefty volume takes a *tabula rasa* approach, not assuming any prior familiarity with Microsoft's relational database management software. Following a summary of the new user interface and features of Access 2007, chapters—which follow the typical steps of database application design—include a large sample database to work with, tips, a troubleshooting section, Web resources, an extensive glossary, and cross-references to the bundled CD-ROM containing files for the sample database. A trial subscription to an online resources is offered.
- QA76.9 2007-004444 978-1-58488-941-0
Stochastic relations; foundations for Markov transition systems.
 Doberkat, Ernst-Erich. (Chapman & Hall/CRC studies in informatics series)
Chapman & Hall/CRC, ©2007 345 p. \$99.95
 Doberkat develops the theory of stochastic relations as a foundation for Markov transition systems, investigating such central ideas as congruences and morphisms and applying them to monoidal structure. He also examines bi-similarity and behavioral equivalence under the same framework and puts the general theory of algebras into the context provided by the subprobability factor. He shows that bi-similarity, behavioral, and logical equivalence are the same for general model logics and for continuous time stochastic logic with and without a fixed point operator. Sections include a tutorial on Polish and analytic spaces, measurable selectors, probability measures and categories, and then material on stochastic relations as monads, Eilenberg-Moore algebras for stochastic relations, the existence of semi-pullbacks and interpreting modal and temporal logics.
- QA76.9 2007-007415 978-0-321-50891-1
Succeeding with SOA; realizing business value through total architecture.
 Brown, Paul C.
Addison-Wesley, ©2007 244 p. \$32.50 (pa)
 Business managers and IT architects applying total architecture concepts for project management will find in this book advice on correctly implementing service-oriented architectures (SOA) to effectively integrate information systems and business process in multi-system projects. Strategies for SOA project leadership are outlined, and emphasis is placed on avoiding pitfalls and choosing an effective team.
- QA76.9 2006-102335 978-1-59904-387-6
Temporal and spatio-temporal data mining.
 Hsu, Wynne et al.
IGI Publishing, ©2008 279 p. \$99.95
 Spatio-temporal databases have been the subjects of a significant amount of academic and industrial research, resulting in advances including modeling, indexing and moving of objects and spatio-temporal data. This addresses one of the issues in such research, which is mining topological patterns in such databases by imposing temporal constraints into the process of mining spatial collocation patterns. Using a variety of techniques, including two partition-based algorithms designed by the authors, this gives background and advanced research into mining dense periodic patterns in time series databases, mining sequence patterns in evolving databases, mining progressive confident rules in sequence databases, understanding early works in spatio-temporal mining, mining topological patterns, mining flow patterns, mining generalized flow patterns, mining spatio-temporal trees and graph patterns, and preparing for future advances in the field.
- QA76.9 2007-013096 978-1-58488-832-1
Understanding complex datasets; data mining with matrix decompositions.
 Skillicorn, David B. (Data mining and knowledge discovery series)
Chapman & Hall/CRC, ©2007 236 p. \$69.95
 For researchers who have complex datasets that garden-variety data-mining techniques do not handle well, Skillicorn explains some of the common matrix decomposition techniques, which break a dataset into its constituent parts in order to analyze it. They are singular value and semi-discrete decompositions, independent component analysis, non-negative matrix factorization, and tensors. The book could serve as a supplemental text in a graduate course on data mining.

QA76.9 2007-005652 0-321-44773-5

User interface design for mere mortals.

Butow, Eric. (For mere mortals series)

Addison-Wesley, ©2007

286 p.

\$49.99

In this introductory textbook, technical writer and editor Butow describes a software-independent approach to designing user-friendly interfaces for desktop and web applications. Particular attention is paid to understanding the psychology of users and anticipating their actions. Usability test design is covered in the final chapter. The text is based on an online course taught by the author at California State U., Sacramento.

QA90 2006-010275 978-0-19-530662-0

Graph design for the eye and mind.

Kosslyn, Stephen M.

Oxford U. Press, ©2006

290 p.

\$49.95 (pa)

Graphs are used to present data in myriad ways and are ubiquitous. Their usefulness, however, is relative to their presentation of the material. In this engaging and eminently practical text, Kosslyn (psychology, Harvard U.; neurology, Massachusetts General Hospital) describes in clear terms why some graphs fail miserably, the psychological principles behind how we see and understand, and how these principles can be applied to make graphs successful in lucidly presenting information. Many examples are given, accompanied by visual examples in a “don’t” and “do” format.

QA135 2006-940629 978-1-4129-4609-4

Mathematics for primary and early years; developing subject knowledge, 2d ed.

Cooke, Heather.

Sage Publications, ©2007

222 p.

\$120.00

How a child learns mathematics early in life will determine his or her educational and employment for life. This task-driven text emphasizes strategies and processes and keeps the unconfident in mind while promoting active learning. It covers the process of learning and doing within the context of teaching mathematics, the concept of numbers and why we use them, measures and proportions, early studies in statistics and algebra, geometry, chance, proof and reasoning. Each section includes examples and lessons along with instruction ideas, a comprehensive introduction and summary, and resources for further study. It includes a self-assessment section and study helps, including a guide to improving your mathematical knowledge and developing a mathematical dictionary.

QA135 2006-007321 978-1-4129-3993-5

Write for mathematics, 2d ed.

Rothstein, Andrew et al.

Corwin Press Inc., ©2007

279 p.

\$37.95

Going far beyond tips on where to put the decimal point in a vertical list of numbers, this gives elementary and secondary teachers both the “how” and the “why” behind effectively communicating mathematical topics, including mathematical material as needed in other disciplines, and assessing skills in mathematics through careful analysis of it in verbal form. This guides elementary and secondary teachers through the words and symbols of mathematics, mathematical word play, metacognition for mathematical thinking, defining formats that increase clarity, expanding mathematical vocabularies through morphology and etymology, using profiles and frames to improve organization, explaining concepts clearly, relating mathematical writing to other disciplines, using the personal touch, including humor, and making the most of knowing how to communicate through mathematics. The authors include reproducible templates for students.

QA141 2006-025221 978-1-56881-290-8

Numbers at work; a cultural history.

Taschner, Rudolf.

AK Peters Ltd., ©2007

209 p.

\$39.00

Sometimes it pays to rest one’s mind with numbers and abstractions, an activity long enjoyed by guys in togas all the way to the current chino-clad crop of mathematical thinkers. Taschner (mathematics, Technical U. of Vienna) is committed to bringing the beauty of the mathematical to the public, and this shows how many concepts are sanctuaries with all those shouting realities, even on a daily basis. Taschner focuses on a set of mathematicians whose work shows up in our thinking and daily lives consistently, including Pythagorus, Bach, Hofmannsthal, Descartes, Leibnitz, Laplace, Bohr and Pascal, exploring numbers and their relationship to symbol, music, time, space, logic, politics, matter and spirit. This is, quite simply, a very good read even for those who consider themselves mathematical Neanderthals.

QA152 2007-920848 978-0-495-10826-9

Algebra and trigonometry with analytic geometry, 12th ed. (Instant Access included)

Swokowski, Earl W. and Jeffery A, Cole.

Brooks/Cole Publishing, ©2008

902 p.

\$132.95

Designed primarily to prepare students for calculus, this edition includes personalized study plans for each chapter and a companion web site. Cole (mathematics, Anoka-Ramsey Community College) builds on the foundation set by the late Swokowski by providing more than 100 new examples and exercises as well as new graphing calculator examples. He also includes a substantial number of well-done illustrations. The result covers fundamental concepts of algebra, equations and inequalities, functions and graphs, polynomial and rational function, inverse functions, exponential and logarithmic functions, trigonometric functions, analytical trigonometry, applications of trigonometry, systems of equations and inequalities, sequences, series and probability, and topics from analytical geometry. Cole includes discussion questions, warnings for common mistakes, answers to selected exercises, an index of applications, a handy list of graphing calculator topics and an even handier set of summaries on the end papers.

QA152 2006-940283 978-0-495-10851-1

Elementary and intermediate algebra; a combined course, 3d ed. (Instant Access included)

McKeague, Charles P.

Brooks/Cole Publishing, ©2008

783 p.

\$138.95

Intended for a two-semester series, this introductory textbook covers graphing equations in two variables, polynomials, factoring, rational expressions, radicals, quadratic functions, logarithms, conic sections, and sequences. The third edition adds 2,000 new problems in reorganized problem sets. McKeague teaches at Cuesta College.

QA164 2007-060765 978-0-8218-4262-1

Combinatorial problems and exercises, 2d ed.

Lovász, László.

AMS Chelsea Publishing, ©2007

639 p.

\$69.00

Lovász provides extensive help to those wishing to learn existing techniques in combinatorics, approaching the topic in a participatory lecture format and providing hundreds of progressive exercises. In fact, his approach is to have student learn almost entirely from the exercises, which he has updated extensively from the previous edition. Along with the exercises come both hints and solutions as he works through basic enumeration, the sieve process, permutations, classical enumeration problems in graph theory, parity and duality, connectivity, factors of graphs, independent sets of points, chromatic number, problems for graphs, the spectra of graphs and random walks, automorphisms of graphs, hypergraphs, Ramsey theory and reconstruction. Students beginning in graph theory, combinatorics or their applications will find this particularly useful, as will researchers who wish to apply the concepts to their studies in mathematics, computer science, management science, or electrical engineering.

QA166 2007-011016 978-0-470-05332-4

The construction of optimal stated choice experiments; theory and methods.

Street, Deborah J. and Leonie Burgess.

Wiley-Interscience, ©2007

312 p.

\$85.00

The modeling of decision making has gone from a packet of graph paper and a brave pencil or two to fully automated systems that can track massive quantities of data. Street and Burgess (statistics and mathematics respectively, U. of Technology, Sydney) offer an accessible guide to the methods you need to design robust models for decision making while building in real life. They cover these “stated choice experiments” with such topics as working with factorial designs (including irregular fractions), building the multinomial logit model and comparing designs, constructing binary comparison designs for binary attributes, using larger choice set sizes for binary attributes, designing asymmetric attributes, finding practical techniques for constructing choice experiments. They provide a range of exercises as well as a concise bibliography.

QA166 2007-003650 978-1-58488-838-3

Introduction to combinatorial designs, 2d ed.

Wallis, W. D. (Discrete mathematics and its applications)

Chapman & Hall/CRC, ©2007 311 p. \$89.95

Wallis (mathematics, Southern Illinois U.) takes a rigorous but kind-hearted approach to this popular study, and includes references to classical approaches that help advanced undergraduate readers and those who wish to study on their own get a solid background from the ground up. Wallis is also careful to take on contemporary designs based on applications in a variety of fields from the very beginning, in which he introduces balanced designs and finite geometries. He proceeds to difference sets and difference methods, the "main existence" theorem, Latin squares and orthogonality, one-factorization and applications, Steiner triple systems, Kirkman triple systems, Hadamard matrices, room squares and advanced applications. This is a remarkably accessible treatment of a complex topic of study.

QA174 2007-060761 978-0-8218-3713-9

Quantum groups; proceedings.

International Conference on Quantum Groups (2004: Haifa, Israel) Ed.

by Pavel Etingof et al. (Contemporary mathematics; v.433)

American Mathematical Society, ©2007 336 p. \$99.00 (pa)

Donin was published before he completed his MA at Moscow State U. and again before he completed his Ph.D. He proposed a new approach based on the Banach manifold and the Banach Lie group techniques of Douady. His later work on deformations of homomorphic bundles over complex spaces with singularities and versal deformations of germs of complex spaces was even more distinguished. These proceedings of the July 2004 conference reflect the high regard in which contributors held Donin, and include a survey of his research along with such topics as bicrystals and crystal bases, the small quantum group and the Springer resolution, Fourier transforms for Hopf algebras, quantization, basic representations of quantum current algebras in higher genus, Poincaré-Birkhoff-Witt expansions of the canonical elliptic differential form, the Drinfeld double for orbifolds, symmetrically factorizable groups and set-theoretical solutions for the pentagon equation, the dynamical reflection equation and Carter-Rieger-Saito movies.

QA182 2005-938840 1-58603-582-7

Semigroups and automata; selecta, Uno Kaljulaid (1941-1999).

Kaljulaid, Uno. Ed. by Jaak Peetre and Jaan Penjam.

IOS Press, ©2006 472 p. \$178.00

This collection of works includes published papers as well as manuscripts prepared by the eminent algebraist Kaljulaid (late mathematics, U. of Tartu), whose work embraced many fields within mathematics and related sciences. His skills as a prized teacher also come into play here, as despite the sophistication of his work Kaljulaid somehow manages to make it accessible. Topics include representations of subgroups and algebras, automata theory, majorization, combinatorics, and the history of mathematics, particularly that of the work of Møller. The articles Kaljulaid prepared to promote the popularization of mathematics are extremely interesting and explain such topics as polynomials and formal series, Galois theory and Mordell's problem. The editors include bibliographic and biographical information.

QA241 2006-103073 978-3-11-019029-8

Combinatorial number theory; proceedings.

Integers Conference 2005 (2005: Carrollton, GA) Ed. by B. Landman et al.

Walter de Gruyter, ©2007 489 p. \$186.00

These proceedings from the October 2005 conference contains selected refereed papers based on lectures given in celebration of the seventieth birthday of Professor Ronald Graham, who is not only a great mathematician but a past president of the International Jugglers Association. Topics include Ramsey number theory (that there cannot be complete disorder and in any large system there must always be some structure), additive number theory, multiplicative number theory, combinatorial games, sequences, elementary number theory and graph theory. Individual topics include an upper bounds for the Davenport constant, five guidelines for partition analysis with applications to lecture hall-type theorems, the Raleigh game partition regulation of matrices, a characterization of lattice-ordered graphs and the game of Take Turn.

QA241 2006-035406 978-1-59102-475-0

The fabulous Fibonacci numbers.

Posamentier, Alfred S. and Ingmar Legmann.

Prometheus Books, ©2007 385 p. \$28.00

Far from being obscure and the toy solely of the mathematical, Fibonacci sequences are found in natural structures such as the arrangement of seeds on a pine cone and the branches of certain plant stems. Posamentier (mathematics education, City U. of New York) and Lehman (mathematics, Humboldt U. in Berlin) fully explore this fascinating phenomenon, starting with its discover and taking it to the golden rectangle, music, and art as well as its many applications in nature. They keep the mathematically challenged in mind, and their text is both lively and accessible without talking down to readers.

QA247 2007-012794 978-3-11-019952-9

Rings and nearings; proceedings.

International Conference on Algebra (2005: Tainan, Taiwan) Ed. by

Mikhail Chebotar et al.

Walter de Gruyter, ©2007 167 p. \$158.00

Seven papers discuss and celebrate the work of respected ring theorist Kostia Beidar. Their topics include Boolean valued models and semi-prime rings, Beidar's contributions to module and ring theory, lie maps in prime rings, and Beidar's contribution to radical theory and related topics. No index is provided.

QA248 2007-927066 978-0-7695-2874-8

Fuzzy systems and knowledge discovery; proceedings; 4v.

International Conference on Fuzzy Systems and Knowledge Discovery

(4th: 2007: Hainan, China) Ed. by Jingsheng Lei et al.

Computer Society Press, ©2007 1600 p. \$401.00

The 586 papers of this proceedings were presented at the Fourth International Conference held in Haikou, Hainan, China in August 2007. Written by scientists worldwide, the papers are grouped by subject and present research in topics that include fuzzy theory and models, stability of fuzzy systems, uncertainty management in data mining, statistical and probabilistic methods of data mining, and machine learning. Individual paper topics include a data classifier based on TOPSIS method, a homogeneous set-theoretical frame for clustering fuzzy relational data, a quick ant clustering algorithm, and approaches to context-based knowledge share and reuse. Each article includes an abstract and list of references. Author index only.

QA268 2007-060819 978-0-8218-4298-0

Recent trends in coding theory and its applications.

Title main entry. Ed. by Wen-Ching Winnie Li. (Studies in advanced mathematics; v.41)

American Mathematical Society, ©2007 200 p. \$59.00 (pa)

Coding theory includes a wide range of mathematical topics, both pure and applied, a fact which is reflected in the contributions here, which include algebraic geometry codes such as Elkes's modularity conjecture and explicit towers and codes, improved algebraic geometry codes and upper and lower bounds for $A(q)$, graph-based codes such as Reed Muller codes and symplectic geometry, and quantum codes including a new description of quantum error-correcting code.

QA272 2006-051392 978-0-691-12514-5

Chases and escapes; the mathematics of pursuit and evasion.

Nahin, Paul J.

Princeton U. Press, ©2007 253 p. \$24.95

Nahin (emeritus, electrical engineering, U. of New Hampshire) introduces the mathematics of pursuit and evasion to an audience understood to be familiar with the first two years of undergraduate mathematics (calculus and ordinary differential equations). He describes many of the classic puzzles and problems of the field, often providing historical context. His treatment draws upon game theory, linear algebra, and target-tracking algorithms, among other topics.

QA274 2007-060749 978-0-8218-4059-7
Stochastic analysis and partial differential equations; emphasis year 2004-2005 on stochastic analysis and partial differential equations, Northwestern University, Evanston, Illinois.

Title main entry. Ed. by Gui-Qiang Chen et al. (Contemporary mathematics; 429)
American Mathematical Society, ©2007 278 p. \$79.00 (pa)
This volume consists of 16 original research papers and expository articles written by speakers invited to the mathematics seminars and June 2005 conference at Northwestern University. The researchers report recent progress in the stochastic analysis of turbulent mixing, construct weak solutions of the Navier-Stokes equations, and investigate the spectral properties of subordinate processes in domains. Other topics include homogenization of stochastic Hamilton-Jacobi equations, general relative entropy in a nonlinear McKendrick model, pointwise Fourier inversion in analysis and geometry, and a class of one-dimensional Markov processes with continuous paths.

QA276 2007-920862 978-0-495-38393-2
Basic statistics; tales of distributions, 9th ed.

Spatz, Chris.
Wadsworth Publishing Co., ©2008 476 p. \$131.95
This textbook for a one-term course in statistics concentrates on conceptualization and interpretation of problems, and draws examples from behavioral, health, and social sciences. Spatz (psychology, Hendrix College) explains descriptive statistics before diving into hypothesis testing and effect size, analysis of variance, and chi square tests. The ninth edition adds a chapter on one-factor repeated measures ANOVA.

QA276 2006-940137 978-0-495-38386-4
Elementary statistics, 10th ed. (Instant Access included)

Johnson, Robert and Patricia Kurby.
Brooks/Cole Publishing, ©2008 910 p. \$132.95
This textbook introduces methods for organizing data into graphical displays and numerical statistics in order to accurately describe a sample, and explains concepts for making inferences about a population based on the information found in the sample. Colorful graphs, real-life applications, and instructions for Minitab and Excel exercises are provided.

QA276 2006-933904 978-0-495-11873-2
Introduction to statistics and data analysis, 3d ed. (with web access)

Peck, Roxy et al.
Duxbury Press, ©2008 853 p. \$135.95
Intended for advanced placement high school courses, this textbook introduces methods for collecting and describing data, the principles of probability, basic one- and two-sample inferential techniques, multiple regression models, analysis of variance, and nonparametric procedures. The third edition adds an optional section on logistic regression, 80 examples, and 180 exercises from current newspapers.

QA276 978-0-470-51024-7
The R book.

Crawley, Michael J.
John Wiley & Sons, ©2007 942 p. \$110.00
After reviewing the basic syntax of the R language for data analysis, this reference explains the R functions for calculating a variety of statistical techniques spanning all the way from elementary classical tests, through regression and analysis of variance and generalized linear modeling, up to spatial statistics, multivariate methods, tree models, and time series analysis. Crawley (Imperial College) focuses on the assumptions behind the tests, fostering a crucial approach to statistical modeling without requiring statistical theory and advanced mathematics. The final chapter provides instructions for changing the look of graphics.

QA276 978-1-59047-693-2
SAS graphics for Java; examples using SAS AppDev Studio and the output delivery system.

Bohnenkamp, Wendy and Jackie Iverson.
SAS Institute, ©2007 342 p. \$51.95 (pa)
This reference guide features instruction for programmers at all levels of experience on how to create SAS graphs, and their attributes, parameters, and options. The basics of SAS 9 are described, along with what is new about it, but the authors cover only the graph objects in SAS AppDev Studio. They discuss webAF, SAS AppDev Studio 2 and 3 tags and their options, and using Output Delivery System statements and the Java Device Driver to create graphs. The book is aimed at those who already know how to use SAS AppDev Studio to create and deploy a JSP or servlet application. It is not meant to be a best practice guide. A basic level of SAS ODS programming knowledge is assumed. Bohnenkamp is a SAS BI Consultant who has been working with data systems for over a decade. Iverson is a Global Training and Development Consultant at SAS.

QA278 2006-037003 978-1-58488-701-0
Applied nonparametric statistical methods, 4th ed.

Sprent, Peter and Nigel C. Smeeton. (Chapman & Hall/CRC texts in statistical science series)
Chapman & Hall/CRC, ©2007 530 p. \$79.95
The textbook is for undergraduate students making their first foray into nonparametric methods, either in a mainstream statistics course or in service courses for students majoring in other disciplines. It can also be used for self-study or as a reference by professionals in various fields who understand basic statistics but have little acquaintance with nonparametric methods. Like previous revisions since 1989, this edition reflects current levels of computing power and the scope of applying nonparametric or distribution-free methods, especially the tendency to combine them with other methods.

QA278 2006-940618 978-0-495-38496-0
Applied regression analysis and other multivariable methods, 4th ed.

Kleinbaum, David G. et al. (Duxbury applied series)
Duxbury Press, ©2008 906 p. \$153.95
Regression analysis has become a mainstay of research in diverse fields; in this edition the authors take this popularity into consideration along with the fact that computers are everywhere. They cover concepts and examples of research, classification of variables and the choice of analysis, statistics, the workings of regression analysis, straight-line regression analysis, the correlation coefficient and straight-line regression analysis, the analysis of variable table, multiple regression analysis, testing hypotheses in multiple regression, various types of correlation, confounding and interactions, dummy variables, adjusting continuous data, regression diagnoses, polynomial regression, selecting the best regression equation, one-way analysis of variance, randomized blocks, two-way anova with equal and unequal cell numbers, maximum likelihood, logistic regression analysis, polytomous and ordinal logistic regression, Poisson regression analysis, analysis of co-related data, and sample size planning for linear and logistic regression and analysis of variance.

QA278 978-1-58488-616-7
Correspondence analysis in practice, 2d ed.

Greenacre, Michael. (Interdisciplinary statistics)
Chapman & Hall/CRC, ©2007 280 p. \$79.95
Greenacre (statistics, U. Pompeu Fabra, Spain) draws upon decades of social and environmental research to show how to use correspondence analysis (CA) for data visualization in a variety of applications. He also examines the ways in which CA, multiple CA and joint CA can translate two-way and multi-way tables into more readable forms, characteristics that make CA and its variants invaluable in such fields as social and environmental research and work in health sciences, marketing, and economics. Greenacre covers such topics as scatter plots and maps, profiles and the profile space, plotting chi-square distances, reducing dimensionality, working with two-dimensional maps and multi-way tables, correspondence analysis biplots, scaling, canonical correspondence analysis, and aspects of stability and inference. For those who need it, the appendices include such topics as the theory of CA, computation of CA and a bibliography.

QA278 2007-927070 978-0-7695-2869-4

Voronoi diagrams in science and engineering; proceedings. (CD-ROM included)

International symposium on Voronoi Diagrams in Science and Engineering (4th: 2007: Pontypridd, Wales) Ed. by Christopher Gold. *Computer Society Press*, ©2007 305 p. \$201.00 (pa)
A July 2007 symposium brought together researchers from many disciplines to present the latest developments and applications of Voronoi diagrams, a type of data structure in computational geometry. Key topics for the symposium were theoretical aspects of Voronoi diagrams, computational and implementation aspects of Voronoi diagrams, generalization of Voronoi diagrams, Voronoi art, and applications of the Voronoi/Delaunay methodology to other areas. Papers from the symposium are presented here, covering specific topics such as greedy beta-skeletons in three dimensions, high-order Voronoi sculpture, and the role of quasi-regular tetrahedra in dense ordered packings of hard spheres. Other subjects examined include a new algorithm in geometry of numbers, variants of a jump flooding algorithm for computing discrete Voronoi diagrams, and Voronoi tessellations, spatial patterns, and clustering across the universe. There is no subject index.

QA279 2007-007222 978-1-59904-141-4

Bayesian network technologies; applications and graphical models.

Title main entry. Ed. by Ankush Mittal and Ashraf Kassim. *Idea Group Publishing*, ©2007 356 p. \$99.95
As Mittal (Indian Institute of Technology, India) and Kassim (National U. of Singapore, Singapore) explain, a "Bayesian network is a high-level representation of a probability distribution over a set of variables that are used for building a model of the problem domain" and Bayesian networks are now being used in a variety of artificial intelligence and machine learning applications. They present 15 papers that they hope will serve to make Bayesian networks more accessible to the wider research and academic community. The papers describe modeling and classification applications using Bayesian networks and include discussion of the modeling of complex domains, data mining of Bayesian network structure, database querying, reliability analysis, and Bayesian modeling for management information systems. They also present five specific applications in image processing and four in bioinformatics.

QA303 2006-939651 978-0-495-01160-6

Calculus, 6th ed.

Stewart, James. *Brooks/Cole Publishing*, ©2008 1321 p. \$173.95
Stewart (McMaster University) strives to convey the beauty of calculus in addition to explaining concepts and developing technical competence. The text can be used with or without graphing calculators and computers, and includes four types of projects: applied projects, laboratory projects involving technology, writing projects asking students to compare present-day methods with those of the founders of calculus, and discovery projects that encourage pattern recognition. This sixth edition adds four diagnostic tests in basic algebra, analytic geometry, functions, and trigonometry, with referrals to web sites for more help for students who don't do well. This edition is reorganized to allow more flexibility of coverage, and also contains new key terms and margin notes, updated examples and exercises, and extra steps provided for some of the existing examples. The accompanying web site now includes brief animations of various figures from the text.

QA303 978-0-495-38430-4

Calculus for the managerial, life, and social sciences, 7th ed. (CD-ROM included)

Tan, S.T. *Brooks/Cole Publishing*, ©2008 673 p. \$137.95
In this text/CD-ROM package, Tan (Stonehill College) takes a results-driven approach to calculus, using real-life examples, applications, and current technology to demonstrate how to apply theory in business, economics, and in the behavioral, life, physical, and social sciences. This seventh edition features 100 new applications on high-interest topics such as Blackberry subscribers, smoking bans, and Google's revenue, plus profile boxes showing how real professionals use calculus in their work. Other learning features include discussion and concept questions, computational exercises, and application problems. Technology subsections offer optional material on the use of graphing calculators. The CD-ROM contains step-by-step instructions for popular calculators, plus video instructions keyed to examples in the text. The text is suitable for a one-semester or two-quarter introductory calculus course.

QA303 2006-939652 978-0-495-01161-3

Single variable calculus, 6th ed.

Stewart, James. *Brooks/Cole Publishing*, ©2008 913 p. \$138.95
In this undergraduate textbook, Stewart (McMaster University) explains the concepts behind functions, limits, derivatives, integrals, first-order differential equations, parametric curves, and series. Several applications of differentiation and integration are described. The sixth edition replaces one quarter of the exercises and updates data in the examples.

QA311 978-0-88385-337-5

A garden of integrals.

Burk, Frank E. (The Dolciani mathematics expositions; no.31) *Mathematical Assn. of America*, ©2007 281 p. \$51.95
Burk (California State U. at Chico) provides a survey of the integrals used in calculus and related subjects. In individual chapters, he covers the integrals of Cauchy, Riemann, Riemann-Stieltjes, Lebesgue, Lebesgue-Stieltjes, Henstock-Kurzweil, Weiner, and Feynman. For each, he describes basic properties, highlights differences and similarities, and discusses their applications. The material is geared towards advanced undergraduate audiences and up.

QA313 2007-060037 978-0-8218-3869-3

Ergodic theory and related fields; proceedings.

Chapel Hill Ergodic Theory Workshop (2004-2006: Chapel Hill, NC) Ed. by Idris Assani. (Contemporary mathematics; 430) *American Mathematical Society*, ©2007 145 p. \$49.00 (pa)
This volume collects seven contributions from participants of the February 2004, 2005, and 2006 Chapel Hill ergodic theory workshops. The mathematicians investigate the pointwise convergence of weighted averages linked to averages along cubes, divergent ergodic averages along the squares, the one-sided ergodic Hilbert transform, deterministic walks in Markov environments with constant rigidity, limit theorems for sequential expanding dynamical systems, and random Fourier-Stieltjes transforms. No index is provided.

QA320 978-1-904275-24-4

Computational functional analysis, 2d ed.

Moore, Ramon E. and Michael J. Cloud. *Horwood Publishing*, ©2007 180 p. \$60.00 (pa)
Written for senior undergraduate and first-year graduate students, this introduces functional analysis tools and prepares readers for further studies in numerical mathematics of mathematical modeling. Moore (computer and information science, Ohio State U.) and Cloud (electrical and computer engineering, Lawrence Technological U.) offer more than 100 exercise while covering linear spaces, topological spaces, metric spaces, normed linear spaces and Banach spaces, inner product spaces and Hilbert spaces, linear functionals, types of convergence in function space, reproducing kernel Hilbert spaces, order relations in function spaces, operators in function space, completely continuous operators, approximation methods for linear operator equations, interval methods for operator equations, contraction mappings and iterative methods, Newton's method in Banach spaces, variants of Newton's methods, and homotopy and continuation methods and a hybrid method for a free-boundary problem. Distributed by ISBS.

QA321 2007-272100 0-486-45352-9

Topological vector spaces, distributions and kernels. (reprint, 1967)

Trèves, François. (Dover books on mathematics) *Dover Pub. Co.*, ©2006 565 p. \$29.95 (pa)
Those with the original 1967 edition of this classic on their bookshelves keep their office doors locked. Trèves (mathematics, Rutgers U.) wrote this for upper-level undergraduates and early graduate students as they studied functional analysis as well as the analysis relevant to the solutions of partial differential equations, an expansion that has proved invaluable to a couple of generations of mathematicians, engineers and other scientists. Along with the astounding 390 exercises, Trèves fully topological vector spaces and spaces of function, with forays into Cauchy filters and Fréchet spaces, Hilbert spaces and partitions of unity, then moves to duality and spaces of distribution with radon measures, the continuous linear map and Sobolev spaces, then into tensor products and kernels, which includes very interesting commentary on nuclear mapping.

QA329 2007-060758 978-0-8218-4146-4
Cones and duality.

Aliprantis, Charalambos D. and Rabee Tourky. (Graduate studies in mathematics; v.84)
American Mathematical Society, ©2007 279 p. \$55.00

In the last 100 years or so researchers have worked with ordered vector spaces and cones, often alongside their work in the different perspective of functional analysis and operator theory. About 50 years ago mathematicians from a range of schools worldwide started studying ordered vector spaces systematically, often to solve optimization problems. As a result this field has become integral to engineering, economics and the social sciences. Here the authors consider cones anew and show how their ideas apply to various fields, aiding researchers and graduate students in mathematics, economics and finance. They cover cones, cones in topological vector spaces, Yudin and pull-back cones, Krein operators, K -lattices, order extensions, piecewise affine functions and in a fascinating appendix, linear topologies.

QA329 978-1-59454-877-2
Fixed point theory and applications; v.7.

Title main entry. Ed. by Yeol Je Cho et al. (Series: title)
Nova Science Publishers, ©2007 203 p. \$79.00

These papers come from an international conference on nonlinear functional analysis and applications held August 2004 at Gysongsang National U and Kyungnam U and cover a variety of topics, including fixed point theory, convex and set-valued analysis, variational inequality and complementary problem theory, nonlinear ergodic theory, difference, differential and integral equations, control and optimization dynamic systems theory, inequality theory, stochastic analysis and probability theory and a number of applications. Participants include references and the editors provide a general index.

QA329 2007-060704 978-0-8218-3965-2
Operator theory in function spaces, 2d ed.

Zhu, Kehe. (Mathematical surveys and monographs; v.138)
American Mathematical Society, ©2007 348 p. \$89.00

Zhu (mathematics. State U. of New York at Albany) covers Toeplitz operators, Hankel operators and composition operators on both Bergman space and Hardy space. His setting is the unit disk and he emphasizes size estimates of these operators in terms of boundedness, compactness, and membership in the Schatten classes. His results concern the relationship between operator-theoretic properties of these operators and function-theoretic properties of the inducing symbols. Writing for research mathematicians and graduate students in complex analysis and operator theory, Zhue begins with bounded linear operators, continuing with the interpolation of Banach spaces, integral operators on L_p spaces, Bergman spaces, Bloch and Besov spaces, the Berezin transform, Toeplitz operators on the Bergman space, Hangel operators on the Bergman space, Hardy spaces and BMO, Hankel operators on the Hardy space, and the aforesaid composition operators. Zhue provides exercises with each section.

QA331 2007-060745 0-8218-3319-7
Functions of several complex variables and their singularities.

Ebeling, Wolfgang. Trans. by Philip G. Spain. (Graduate studies in mathematics; v.83)
American Mathematical Society, ©2007 312 p. \$59.00

Ebeling introduces the theory of functions of several complex variables and their singularities, emphasizing the topological aspects. He provides all the necessary prerequisites for graduate students and practitioners, describing Riemann surfaces (including coverings, analytical continuation, and Puiseux expansion), holomorphic functions of several variables (including analytic sets and analytic set germs as well as regular and singular points of analytic sets), isolated singularities of holomorphic functions (including isolated critical points and the universal unfolding), fundamentals of differential topology (including singular homology groups and linking numbers), and the topology of singularities (including the Picard-Lefschetz theorem, the Milnor fibration, the Coxeter-Dynkin diagram, the Seifert form and the action of the braid group).

QA331 2007-060747 978-0-8218-4227-0
In the tradition of Ahlfors-Bers; proceedings.

Ahlfors-Bers Colloquium (4th: 2005: Ann Arbor, Michigan) Ed. by Dick Canary et al. (Contemporary mathematics; 432)
American Mathematical Society, ©2007 229 p. \$79.00 (pa)

Lars Ahlfors and Lipman Bers created significant mathematical legacies within the fields of algebraic geometry, mathematical physics, dynamics, geometric group theory, number theory and topology. In these proceedings of the May 2005 colloquium that bears their names, contributors present new research and also some expository material in such studies as uniformly exponential growth and mapping of class groups of surfaces, curvature and stretchiness and their relation to dynamics, some special loci in the Segal space of genus two, a new approach to the automorphism theorem for Teichmüller spaces, the energy of twisted harmonic maps of Riemann spaces, small eigenvalues and maximal laminations on complete surfaces of negative curvature, a generalized hyperbolic metric for plane domains, random hyperbolic surfaces and measured laminations and, as befitting, a survey of the complete analyst's traveling salesman theorems.

QA331 2007-922096 978-0-495-10837-5
Precalculus; functions and graphs, 11th ed. (includes web access)

Swokowski, Earl W. and Jeffrey A. Cole.
Brooks/Cole Publishing, ©2008 862+ p. \$139.95

This textbook introduces polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, systems of equations and inequalities, sequences, series, probability, and analytic geometry. Real-life applications and graphing calculator examples are provided. Cole teaches at Anoka-Ramsey Community College.

QA331 2006-939524 978-0-495-39276-7
Precalculus; mathematics for calculus, 5th ed. (CD-ROM included)

Stewart, James et al.
Brooks/Cole Publishing, ©2007 1030 p. \$140.95

New to the 5th edition of this textbook is a focus on models and applications with expanded sections for both in each chapter. The first chapter is a review of algebra and analytic geometry. The chapters contain related hands-on activities that can be completed in groups, and frequent inset boxes contain facts, stories, and biographies that provide a context for the math. Review exercises and their answers conclude each chapter and there are additional exercises online.

QA353 2006-048036 978-0-8218-2873-1
Automorphic forms and applications.

Title main entry. Ed. by Peter Sarnak and Freydoon Shahidi. (IAS/Park City mathematics series; v.12)
American Mathematical Society, ©2007 427 p. \$75.00

Each year, the Institute for Advanced Study/Park City Mathematics Institute holds a graduate summer school. In 2002, the topic chosen for discussion was developments in analytic aspects of automorphic forms and their applications. This volume contains the lecture notes from the summer school and covers introductory issues, the basic theory of Eisenstein series, converse theorems and the Langlands-Shahidi method, Ramanujan conjectures and applications, analytic theory of $GL(2)$ forms and L -functions, arithmetic quantum chaos, and unipotent flows on Γ/G and applications.

QA371 2006-101376 978-1-4129-4108-2
Differential equations; a modeling approach.

Brown, Courtney. (Quantitative applications in the social sciences, a Sage publications series; 7-150)
Sage Publications, ©2007 106 p. \$16.95 (pa)

Brown (Emory University) explains the separation of variables technique and three numerical methods for solving linear first-order differential equations as well as graphical techniques for analyzing systems of differential equations. Three classic examples with military and economic themes encourage social scientists to consider differential equations when modeling continuous time change.

QA377 2005-000173 1-59454-273-2
Advances in grid generation.

Title main entry. Ed. by Olga V. Ushakova.
Nova Science Publishers, ©2007 382 p. \$129.00

Writing for the benefit of young researchers, undergraduate and graduate students and engineers in the fields of computational and applied mathematics, mechanics and physics, this collection focuses on grid generation and numerical simulation of physical field phenomena and processes. Papers on two-dimensional algorithms address such topics as elliptic barrier-type grid generators for problems with moving boundaries, a class of quasi-isometric grids, triangle distortions under quasi-isometries, grid optimization and adaptation, moving mesh calculations in unsteady two-dimensional problems, generation of curvilinear grids in multiply connected domains of complex topology. Papers on three-dimensional algorithms cover numerical simulation of component vortex flows by MAH-3 code, nondegeneracy conditions for different types of grids, application of optimal grid generation algorithms to the volumes of revolution, an algorithm that constructs optimal grids in domains of the "pipeline" type and conservative remapping on hexahedral meshes.

QA377 2007-060763 978-0-8218-3853-2
High-dimensional partial differential equations in science and engineering; proceedings.

Title main entry. Ed. by André Bandrauk et al. (CRM proceedings & lecture notes; v.41)
American Mathematical Society, ©2007 194 p. \$79.00 (pa)

Until the genesis of computational resources sufficient to handle them, these equations have been a stumbling block in many fields of study. Now, however, they can be managed by combining recent developments in numerical and computational techniques and the use of computers with parallel structures. Taken from a meeting held at the U. of Montreal in August 2005, these papers describe the many new applications these advances have made, including kinetic plasma physics equations, the many-body Schrödinger equation, Dirac and Maxwell equations for molecular electronic structure and nuclear dynamic computations, options pricing equations in mathematical finance and Fokker-Planck and fluid dynamics equations for complex fluids.

QA379 978-1-84564-072-9
Fluid structure interaction and moving boundary problems IV; proceedings.

Int'l Conferences on Fluid Structure Interaction (4th: 2007: The New Forest, UK) Ed. by S.K. Chakrabarti and C.A. Brebbia. (WIT transaction on the built environment; v.92)
WIT Press, ©2007 352 p. \$245.00

These proceedings of the May 2007 conferences on fluid structure interactions and moving boundaries address a range of situations when fluid meets other materials and structures. Along with the situational studies these papers describe the basic mathematical formulations of fluid structure interaction and their complex modeling, focusing on the borders or interphase boundaries determined as part of the solution. Topics include hydrodynamic forces, offshore structure and ship dynamics, offshore engineering, response of structures including fluid dynamics, computational methods, experimental studies and validation, flow-induced vibration, moving boundary problems, and acoustics and noise. Each paper is complete with references. The US office of WIT Press is Computational Mechanics.

QA401 2006-053185 978-0-8311-3337-5
Guide to mathematical modelling, 2d ed.

Title main entry. Ed. by Dilwyn Edwards and Mike Hamson.
Industrial Press, ©2007 326 p. \$37.50 (pa)

Edwards (University of Greenwich) and Hamson (Glasgow Caledonian University) outline a method for formulating a mathematical model of both scientific and organization problems, and develop models with continuous function variables and random variables. The examples model driving speeds, animal populations, price wars, windshield wipers, and demolition cranes. The second edition adds a chapter on difference equations.

QA402 978-0-7695-2780-2
Computational complexity; proceedings.

Annual IEEE Conference on Computational Complexity (22d: 2007: San Diego, CA)
Computer Society Press, ©2007 357 p. \$210.00 (pa)

Papers from a June 2007 conference shed light on recent work in areas such as halfspace matrices, time-space tradeoffs for counting NP Solutions modulo integers, unbalanced expanders and randomness extractions from Parvesh-Vardy codes, and quantum versus classical proofs and advice. Other topics examined include approximate majority and probabilistic time, the complexity of polynomials and their coefficient functions, a linear round lower bound for Lovasz-Schrijver SDP relaxations of vertex cover, and directed planar reachability in unambiguous log-space. Heuristic time hierarchies, mathgate computations, a new interactive hashing theorem, and parity problems in planar graphs are some other subjects explored. There is no subject index.

QA402 2006-929652 978-0-940600-65-2
Optimality; proceedings.

Erich L. Lehmann Symposium (2d: 2004: Houston, TX) Ed. by Javier Rojo. (Lecture notes-monograph series; v.49)
Inst./Mathematical Statistics, ©2006 339 p. \$75.00 (pa)

The primary purposes of the Lehman Symposia are to encourage new interest in fundamental questions of theoretical statistics while also recognizing issues that arise from seeking to solve contemporary interdisciplinary problems. Judging from these proceedings of the May 2004 symposium the symposia have been successful not only in encouraging research but also in bringing new blood into the field. Topics of the refereed papers include testing (including a t-test for scale mixture errors), multiple testing (including step down control of the false discovery proportion), philosophy (including using frequentist statistics as a theory of inductive inference and a new look at the problem of specification), transformation models and proportional hazards (including modeling inequality and spread in multiple regression), copulas and decoupling, regression trees (including tree models for designated experiments), competing risks, robustness, multiple stochastic processes, asymptotics and density estimation.

QA402 2006-051292 978-0-89871-621-4
Real-time PDE-constrained optimization.

Title main entry. Ed. by Lorenz T. Biegler et al. (Computational science and engineering; 3)
SIAM, ©2007 312 p. \$99.00 (pa)

Partial differential equations, the workhorses of the engineering and scientific worlds, are singular and significant elements of design, control and parameter estimation. However, their potential complexity can make it impossible to achieve rapid solutions, particularly in the case of time-sensitive applications such as simulation-based decision making. Contributed by practitioners and academics, this focuses on new formulations, methods and algorithms researchers and engineers need to optimize PDE-controlled situations. Topics include the constrained optimal feedback control of systems governed by large differential algebraic equations, a stabilizing real-time implementation of nonlinear model prediction control, numerical feedback controller design, a least-squares finite element method, a collection of fast PDE-constrained optimization solvers, recommendations for reduced-order modeling and a range of applications.

QA431 2007-922339 978-1-84564-101-6
Integral equations and their applications.

Rahman, M.
WIT Press, ©2007 356 p. \$252.00

Rahman (applied mathematics and fluid mechanics, Dalhousie U.) offers senior undergraduate and first-year graduate students of engineering and science courses (as well as of mathematics and physical sciences) recent developments, including preliminary backgrounds of formulations of integral equations governing physical situations and elegant analytical and numerical methods. He covers Volterra integral equations, Fredholm integral equations, nonlinear integral equations, the singular integral equation, integro-differential equations, symmetric kernels and orthogonal systems of functions, and a range of applications. He includes appendices including a table of Laplace transforms and specialized Laplace inverses. The US office of WIT Press is Computational Mechanics.

QA448 2007-925752 978-0-7695-2901-1
Geometric modelling and imaging; proceedings.

International Conference on Geometric Modelling and Imaging (2007: Zurich, Switzerland) Ed. by Muhammad Sarfraz and Ebad Banissi. Computer Society Press, ©2007 161 p. \$185.00 (pa)

This proceedings volume from the 2007 International Conference on Geometric Modeling and Imaging contains 28 papers for students and practitioners in the following fields: computer aided and geometric design, computer graphics and vision, image processing, and pattern recognition. Specific topics include: a pseudo real-time system for visualization of 3D scenes, modeling and visualization of moving objects on a digital map, a comparison of efficient decimation algorithms for polygonal models, and an indoor navigational aid system for the visually impaired. This book contains an author index only.

QA460 2006-050969 978-0-691-12526-8
The Pythagorean theorem; a 4,000-year history.

Maor, Eli. Princeton U. Press, ©2007 259 p. \$24.95

Maor (mathematics, Loyola U., Chicago) traces the history of the most famous geometrical theorem ever, including some of the more interesting of the more than 400 proofs. He places it within the larger philosophical system attributed to Pythagoras, and samples its use down the centuries in science, art, and literature.

QA465 2007-273245 978-0-486-45315-6
Foundations of measurement; v.2. (reprint, 1989)

Suppes, Patrick et al. Dover Pub. Co., ©2007 493 p. \$27.95 (pa)

If you cannot measure it, it probably does not exist to many scientists, and this volume in the series sets out to prove that measurements at the far ranges do exist. This reprint of the Academic Press edition is unabridged and is slightly corrected, giving overviews of geometric units and threshold and error units, geometrical representations, including vector and metric representations, axiomatic geometry and applications, including affine and absolute spaces, proximity measurement, including multidimensional representations, color and force measurement, including Grassmann structures and proofs, representations with thresholds, including ordinal theory and semi-ordered additive structures and representations of choice probabilities, including ordinal representations for pair comparisons and random variable representations.

QA601 2007-006588 978-0-8311-3338-2
Geometric transformations for 3D modeling, 2d ed.

Mortenson, Michael E. Industrial Press, ©2007 353 p. \$59.95

After explaining the theory of transformations and vector spaces, this advanced textbook explores rigid body motion, reflection and symmetry, dilations, and projections. Topics include isometries, affinities, eigenvalues, tensors, rotation, central inversion, reflections in space, ornamental groups, polygonal symmetry, shear in a plane, map projections, and nonlinear transformations.

QA612 2006-047074 978-0-8218-3812-9
Elements of the homology theory.

Prasolov, V.V. (Graduate studies in mathematics; v.81) American Mathematical Society, ©2007 418 p. \$69.00

Prasolov developed from his seminars on topology for second-year graduate students at the Independent U. of Moscow, so his treatment of homology and cohomology takes a very structured form rather than emerging as a series of mathematical vignettes. Prasolov starts with the definition of simplicial homology and cohomology and backs this up with examples and applications, describes calculations, the Euler characteristic and the Lefschetz theorem. He then introduces cohomology rings in terms of the Kolmogotov-Alexander multiplication in cohomology, the homology and cohomology of manifolds, and the Künneth theorem, then turns to applications of simplicial homology, including homology's relationship with homotopy, characteristic classes, group actions and Stenrod squares, singular homology, Čech cohomology and de Rham cohomology. Other topics include the Alexander polynomial, the Arf invariant, embeddings and immersions, complex manifolds, Lie groups and H -spaces. Prasolov includes solutions for selected exercises.

QA613 2006-048014 978-0-8218-4230-0
Collected papers of John Milnor; differential topology.

Milnor, John Willard. (Collected works; v.19.3) American Mathematical Society, ©2007 343 p. \$69.00

Milnor (mathematics, State U. of New York at Stony Brook) feels very fortunate to have started with the topology of manifolds in the 1950s; he was able to make very significant contributions to a fresh and dynamic field, and these papers prove it. Ranging from the later 1950s and into the later 1960s, these papers and include the "exotic spheres," including a procedure for killing homotopy groups of differentiable manifolds; expository lectures on topology, differentiable structures, and smooth manifolds with boundary based on "Varietades diferenciables con frontera", papers on relations with algebraic topology, and a series on cobordism that is evidence of a staggering level of work done in a very short time. papers are in facsimile form and contain their original pagination. The author also provides a lively account of why he dedicated this volume to Georges De Rham, Hassler Whitney, and their beloved mountains.

QA613 2007-060684 978-0-8218-4304-8
Foliations in Cauchy-Riemann geometry.

Barletta, E. et al. (Mathematical surveys and monographs; v.140) American Mathematical Society, ©2007 256 p. \$75.00

In this study of the relationship between foliation theory and differential geometry and analysis on Cauchy-Riemann (CR) manifolds, the main objects are transversally and tangentially CR foliations, Levi foliations of CR manifolds, solutions of the Yang-Mills equations, tangentially Monge-Ampere foliations, the transverse Beltrami equations and CR manifolds. This is a novel, multidisciplinary approach that uses the methods of foliation theory for specific applications. Punctuated by open problems designed to pique the interest of mathematicians, this includes such topics as foliated Lorentz manifolds, holomorphic extensions of Levi foliations, analysis on pseudoconvex domains, CR submanifolds of maximal CR dimension, the Graham-Lee connection, flows, degenerate CR manifolds, and a review of orbifold theory.

QA614 2007-924394 978-0-88385-748-9
Differential geometry and its applications, 2d ed.

Oprea, John. Mathematical Assn. of America, ©2007 469 p. \$59.95

With its hearty history and its many triumphs in the study of everything from the fundamentals of nature to DNA, differential geometry is not an ordinary branch of mathematics. Oprea (mathematics, Cleveland State U.) argues that differential geometry combines features of geometry, calculus, linear algebra, differential equations, complex variables, the calculus of variations and ideas taken from the sciences, and makes his case with this undergraduate text that works with computer algebra programs to achieve visible results. He covers the geometry of curves, surfaces, curvatures, constant mean curvature surfaces, geodesics, metrics, isometries, holonomy and the Gauss-Bonnet theorem, the calculations of variations and geometry, and higher dimensions.

QA614 2006-102211 978-3-11-019092-2
Getting acquainted with fractals.

Helmberg, Gilbert. Walter de Gruyter, ©2007 177 p. \$98.00

Helmberg balances the fascinating geometric aspects of fractals with the serious mathematics underlying them at a level accessible to advanced undergraduate students in either discipline. He cites works that provide the next level of detail, and contain exercises. The sections cover fractals and dimensions, iterative function systems, and the iteration of complex polynomials—Julia sets and the Mandelbrot set. Color illustrations.

QA670 2007-060760 978-0-8218-4319-2
Geometric analysis on the Heisenberg group and its generalizations.

Calin, Ovidiu et al. (AMS/IP studies in advanced mathematics; v.40) American Mathematical Society, ©2007 244 p. \$59.00

Although designed as a course or seminar text for graduate students interested in developments in the subRiemannian manifolds (manifolds with the Heisenberg principle built in) and sub-elliptic operators theory, this also works as a resource for pure and applied mathematicians and theoretical physics working in quantum mechanics. One of the authors' most interesting innovations is introducing the complex Hamiltonian mechanics techniques and use them to describe the fundamental solutions and heat propagators in quantum mechanics. They introduce geometric mechanics on the Heisenberg group, then give geometric analyses of the step 4 case, the step $2(k+1)$ case, the geometry of higher dimensional Heisenberg groups, complex Hamiltonian mechanics and quantum mechanics on the Hiesenberg group. The result is fresh and lively while also being thorough. The authors provide exercises for each chapter.

QA808 2006-052201 978-0-89871-620-7

Mathematics applied to continuum mechanics.

Segel, Lee A. (Classics in applied mathematics; 52)
SIAM, ©2007 590 p. \$85.00 (pa)

This advanced textbook applies tensors to derive the constitutive equations for viscous fluids and linearly elastic solids, illustrates the solution of elastic and dynamic problems, and develops a system of linear partial differential equations to describe the motion of water waves. The SIAM edition is an unabridged reprint of the work originally published by Macmillan in 1977.

QA922 978-1-84564-079-8

Computational methods in multiphase flow IV; proceedings.

Int'l conference of Computational and Experimental Methods in Multiphase... (4th: 2007: Bologna, Italy) Ed. by A.A. Mammoli and C.A. Brebbia. (WIT Transactions on engineering sciences; v.56)
WIT Press, ©2007 400 p. \$265.00

Drawn from those presented at the June 2007 conference, these papers describe new work in one of the great unsolved problems in fluid mechanics. Flows are very diverse in nature and so the laws that explain them are also varied, and length scales are often fully coupled, further complicating an already complicated situation. By way of finding an elegant solution, the topics of these papers include multiphase flow simulation, including a methodology for momentum flux measurements in two-phase blast flows, flow in porous media, including transient groundwater flow in a single fracture, interfaces, including micro-scale distillation simulation, bubble and drop dynamics, including the nonlinear dynamics of lipid-shelled ultrasound microbubble contrast agents, suspensions, including an experimental investigation of sedimentation of flows in suspensions of biological water treatment plants, and turbulent flows, including notes on crossing trajectory effects in gas-particle turbulent flows. The US office of WIT Press is Computational Mechanics.

ASTRONOMY

QB16 2007-386740 978-1-905785-05-6

Island of the setting sun; in search of Ireland's ancient astronomers.

Murphy, Anthony and Richard Moore.
Liffey Press, ©2006 326 p. \$42.95 (pa)

They saw the sky, and realized there was something to it, and they wanted it. Although they were capable of generating tales as tall as that sky they know they could not simply scale their words and bring it to earth without something to pin it, so they used what was at hand, namely stones. The result, according to journalist/photographer Murphy and painter Moore, is a systematic way of understanding vast quantities of time and space and humans' place in it. Murphy and Moore find those who created such places as Newgrange and Dowth were doing much more than telling time; apparently these people, who began their work over 5,000 years ago, had a cosmic consciousness and also a great curiosity about what we were to make of their stones, myths and artifacts and found a way to speak to us through them. Distributed by Dufour.

QB64 978-0-642-27632-2

Australian backyard astronomy.

Bhathal, Ragbir and Jenny Bhathal.
National Library of Australia, ©2006 131 p. \$29.95 (pa)

This children's book describes the planets in our solar system, the main star constellations as seen from the southern hemisphere, and Aboriginal stories about them. Some of the color photographs are quite impressive, and the activities will hold bright children's attention for hours. Distributed in the U.S. by Antipodes Books & Beyond.

QB82 2006-937896 978-1-58381-225-9

The Spitzer space telescope; new views of the cosmos; proceedings.

Conference on the Spitzer Space Telescope; New Views of the Cosmos (2004: Pasadena, CA) Ed. by L. Armus and W. T. Reach. (Astronomical Society of the Pacific conference series; v.357)
Astronomical Soc./Pacific, ©2006 317 p. \$77.00

The telescope had been operating in its science phase for about a year when astronomers gathered to report on its observations and interpretations of them regarding the solar system, the galaxy, and the rest of the cosmos. Their topics include the formation and evolution of planetary systems and how our own solar system measures up, solid-state components of varying composition in the outflow of the Red Rectangle, and detecting clusters of galaxies at high red-shift. A profile of Lyman Spitzer and a brief history of the telescope named after him are also included.

QB117 2006-937860 978-1-58381-224-2

Revealing the molecular universe; one antenna is never enough; proceedings.

Symposium on Revealing the Molecular Universe; One Antenna is Never Enough (2005: Berkeley, CA) Ed. by D.C. Backer et al. (Astronomical Society of the Pacific conference series; v.356)
Astronomical Soc./Pacific, ©2006 314 p. \$77.00

Astronomers! You give them an antenna, and they want two. Twenty-six papers and six poster presentations represent a September 2005 symposium held in Berkeley, California honoring Jack Welch's retirement from his long career at the U. of California. The papers address topics pertaining to radio telescope facilities, the development of Berkeley's remote Hat Creek Radio Observatory, and star and star formation science; the posters are on the North American ALMA prototype antenna, interstellar molecules in K-12 education, the recently discovered Class O source Barnard 1-c, a massive protobinary system in the hot core, results from the SCUBA public archive, and the impact of galaxy outflows. Concluding remarks address the past and future radio astronomy activities at Berkeley.

QB135 978-1-58381-232-7

The future of photometric, spectrophotometric and polarimetric standardization; proceedings.

Conference on the Future of Photometric, Spectrophotometric and Polarimetric... (2006: Blankenberge, Belgium) Ed. by Christiann Sterken. (Astronomical Society of the Pacific conference series; v.364)
Astronomical Soc./Pacific, ©2007 633 p. \$77.00

These proceedings from the May 2006 conference focus on the present status and the future of standardization and calibration of these fields, including the production process for those standards and the construction and use of calibration apparatus. Topics include the basic concepts of standardization; the construction, calibration and maintenance of photometric systems; sky surveys in photometry; standardization of spectrophotometry; spectrophotometric and photometric absolute flux calibrations; standardization for the infrared; standardization of polarimetry; synthetic data and models; reduction techniques, procedures and methods; standardization of unusual objects such as supernovae and variable stars; and recommendations for the future. The editors have provided object, subject and author indices and have dedicated this volume to Arlo U. Landolt in commemoration of his life's work.

QB461 2007-009980 978-0-470-01305-2

Astrophysics; decoding the cosmos.

Irwin, Judith A.
John Wiley & Sons, ©2007 417 p. \$70.00 (pa)

Irwin (physics, Queen's U., Canada) opens up astrophysics for undergraduates and others with a bent for examples of theory in practice. She covers signals as they are observed, defined and measured, matter and radiation; signals as they are perturbed, as in the interaction of light with matter and light with space; signals emitted, whether as continuum or line emissions; and the signal decodes in forensic astronomy. Appendices give both undergraduate and graduate students background and the many color plates reveal, among other fascinating things, that Betelgeuse and Rigel can be visible to the naked eye in daylight and a cute dog is a darn good model for a lesson on heat and light.

QB472 2006-938411 978-1-58381-228-0

AGN variability from X-rays to radio waves; proceedings.

Workshop on AGN Variability From X-Rays to Radio Waves (2004: Crimea, Ukraine) Ed. by C. Martin Gaskell et al. (Astronomical Society of the Pacific conference series; v.360)
Astronomical Soc./Pacific, ©2006 292 p. \$77.00

The emission produced by secretion onto supermassive black holes in AGN dominates the overall emission of the universe over almost all of the electromagnetic spectrum, particularly the far UV and soft x-ray regions where the power from most AGN peaks. In these proceedings from the June 2004 conference includes significant research on the nature, causes and implications of AGN variability. General topics include optical variability, including long-term optical quasar variability, IR variability, including the correlation of near infrared and optical variability on NGC 4151, x-ray variability, including the relationship between optical and x-ray variability in Seyfert galaxies, radio variability, including 3C 120 and the disk-jet connection, blazars, including photometric and polarimetric observations of BL Lac objects in the optical region, including flows and shocks in Seyfert Galaxy nuclei and general considerations, including closing thoughts on AGN variability by the conference chair.

- QB472 2007925921 978-1-58381-236-5
The physics of chromospheric plasmas; proceedings.
 Coimbra Solar Physics Meeting (2006: Coimbra, Portugal) Ed. by C. Petr
 Heinzel et al. (Astronomical Society of the Pacific conference series;
 v.368)
Astronomical Soc./Pacific, ©2007 653 p. \$77.00
 Papers from an October 2006 meeting present recent work on spectrohe-
 liograph equipment and observations, the structure and dynamics of the
 solar chromosphere, active regions and sun spots, prominences and fila-
 ments, chromospheric flares, long-term solar variations, and solar
 physics instrumentation. Papers examine new developments at the
 Coimbra University observatory, the long-term evolution of the chromo-
 sphere, and solar irradiation variability and its effects on space weather.
 Specific topics include the origin of solar white-light flares, modeling the
 hemispheric pattern of solar filaments, stellar atmospheres and the dia-
 magnetic effect, observations of running waves in a sunspot chromo-
 sphere, and acoustic shocks in the quiet solar chromosphere. There is no
 subject index.
- QB521 978-1-58381-238-9
Solar and stellar physics through eclipses; proceedings.
 Solar and Stellar Physics Through Eclipses workshop (2006: Antalya,
 Turkey) Ed. by Osman Demircan et al. (Astronomical Society of the
 Pacific conference series; v.370)
Astronomical Soc./Pacific, ©2007 380 p. \$77.00
 Eclipse phenomena provide opportunities for deducing new astronomical
 information because it is a kind of scanning, in which information on the
 eclipsed and eclipsing objects are scanned together with their envi-
 ronment. In this volume, Demircan (physics, Çanakkale U., Turkey),
 Selam (astronomy and space sciences, Ankara U., Turkey), and Albayrak
 (astronomy and space sciences, Ankara U.) present the results of a March
 2006 workshop devoted to the study of eclipse phenomenon. Seventeen
 opening papers address eclipse-related issues of solar system physics,
 including eclipses and planetary transits, mass determination of small
 solar system bodies with ground-based observation, damping of magne-
 tohydrodynamic waves as a heating mechanism of solar corona, coronal
 heating and acceleration of the solar wind. A further seventeen papers
 address eclipse-related issues of extra-solar physics, including solar and
 stellar eclipse mapping, line profiles during eclipse of binary stars, clas-
 sification of eclipsing binaries, photometric and spectroscopic studies of
 the eclipsing binary, the light curve variation of the Be Star EM Cep, and
 determination of physical parameters of cataclysmic variables from
 analysis of their light curves. Also included are 23 poster presentations
 on similar topics.
- QB539 2006-937910 978-1-58381-226-6
Solar polarization; proceedings.
 International Workshop on Solar Polarization (4th: 2005: Boulder, CO)
 Ed. by R. Casini and B. W. Lites (Astronomical Society of the Pacific
 conference series; v.358)
Astronomical Soc./Pacific, ©2006 477 p. \$77.00
 Proceedings from an international workshop held in Boulder, Colorado,
 in September, 2005. Eighty contributions are organized into sections on
 photospheric magnetism, radiative transfer methods and inversion tech-
 niques, new solar polarimeters and techniques, atomic spectro-
 polarimetry, theory of collisional polarization, laboratory experiments
 and molecular spectro-polarimetry, stellar spectro-polarimetry, and chro-
 mospheric electromagnetism. A sampling of topics: the microstructure of
 a sunspot penumbra, penumbral moving magnetic features, SOLIS-VSM
 solar vector magnetograms, multigrad methods for polarized radiative
 transfer, tunable narrow-band filter for imaging polarimetry, the dif-
 fraction limited spectro-polarimeter, a brief overview of the Second Solar
 Spectrum, polarizability factors for molecular bands, spectro-polarimetry
 of cool stars, molecular diagnostics of the internal structure of starspots
 and sunspots, and the effect of turbulent electric fields on the scattering
 polarization of hydrogen lines. No subject index. Illustrated in b&w.
- QB581 2006-102611 978-0-8109-9307-5
The moon.
 Carlowicz, Michael.
Harry N. Abrams, ©2007 240 p. \$19.95
 In this lavishly-illustrated 6x6" book on our nearest neighbor in the
 cosmos (and a few other moons), Carlowicz, a science writer/editor with
 the Woods Hole Oceanographic Institution, holds forth knowledgeably on
 the science, and mythological, religious, and popular culture associations
 with the moon. Resources are listed under the whimsical heading
 "Moonlighting on the Web and in print."
- QB600 72-82137 978-0-8243-2035-5
Annual review of earth and planetary sciences; v.35, 2007.
 Title main entry. Ed. by Raymond Jeanloz et al.
Annual Reviews, ©2007 807 p. \$216.00
 With 23 articles and a prefatory chapter, this is the largest volume in the
 series to date. Topics range from climate change and geological aspects
 of public health to the application of quantum mechanics in geochem-
 istry. The topics of each volume in the series now span well beyond the
 solid-Earth and planetary disciplines that previously dominated the
 series, with articles on subjects of immediate societal relevance, such as
 the articles on climate change in the past 200 years found in this volume.
 Chapters reflect current work in Earth science's efforts to provide infor-
 mation on the geological past, and developments in geophysical methods.
 Specific topics covered include the Aral Sea disaster, microprobe mon-
 azite geochronology, microsampling and isotopic analysis of igneous
 rocks, the crustal dichotomy on Mars, and the tectonics and climate of
 the Southern Central Andes. Material is illustrated with full-color images,
 diagrams, and tables. Jeanloz is affiliated with the University of
 California-Berkeley.
- QB641 2006-016848 0-525-94985-2
Postcards from Mars; the first photographer on the red planet.
 Bell, Jim.
Dutton Books, ©2006 196 p. \$55.00
 Bell led the team that built the "Pancam" cameras installed on the Mars
 rovers *Spirit* and *Opportunity*. The some 100 double-page (and some fold-
 out) prints collected here depict the preparation of those missions as well
 as the stark Martian panoramas captured in images both single and com-
 posite, both real- and false-color. Bell applies his sensibilities as a lifetime
 landscape photographer to select artful and varied depictions of the
 texture of the Red Planet. The book is oversize: 11.75x11.75".
- QB791 2007-925922 978-1-58381-233-4
SINS-small ionized and neutral structures in the diffuse interstellar medium; proceedings.
 SINS-Small Ionized and Neutral Structures in the Diffuse Interstellar
 Medium (2006: New Mexico) Ed. by M. Haverkorn and W. M. Goss.
 (Astronomical Society of the Pacific conference series; v.365)
Astronomical Soc./Pacific, ©2007 360 p. \$77.00
 These proceedings from the May 2006 meeting include papers include
 research on structures observed at scales from astronomical units to kilo-
 meters. One intriguing feature is that despite a wealth of data, no single
 theory satisfactorily explains the phenomenon. The structure may consist
 of discrete objects rather than being part of a spectrum, indicating these
 objects are over-pressurized in comparison to their medium. It is not even
 clear as yet whether the ionized, atomic and molecular structures are
 connected, which are discrete objects (technically, "things") and which
 are part of a power spectrum (technically, "spooks"). Here contributors
 describe recent work on small-scale structures, theory and numerical
 simulations along with observational and theoretical reviews of the
 session.
- QB801 978-3-527-40602-9
Nuclear physics of stars.
 Iliadis, Christian.
Wiley-VCH, ©2006 666 p. \$100.00 (pa)
 Iliadis (physics, University of North Carolina-Chapel Hill; Triangle
 Universities Nuclear Laboratory) explains nuclear processes that generate
 the energy that makes stars shine, covering nucleosynthesis, nuclear
 energy generation in stars, and other topics at the intersection of nuclear
 physics and astrophysics. Most equations are derived, and concepts are
 explained in as simple a manner as possible. The book begins with cov-
 erage of basic concepts in nuclear physics and stellar evolution, and pro-
 gresses with material on nuclear reactions, nuclear processes in stellar
 plasma, experimental information needed to perform measurements in
 nuclear astrophysics, and theory of stellar nucleosynthesis. With chapter
 exercises and 50 pages of reference appendices, the book can be used as
 a text or reference for undergraduates, graduate students, and
 researchers in nuclear physics and astrophysics. Students should have
 taken an undergraduate course in modern physics with elementary cov-
 erage of wave functions. An undergraduate course in quantum
 mechanics or nuclear physics is helpful but not required. Color photos
 and images are included.

QB801 2007-925920 978-1-58381-230-3
Stellar astrophysics; proceedings.

Pacific Rim conference on Stellar Astrophysics (7th: 2005: Seoul, Korea)
Ed. by Young Woon Kang et al. (Astronomical Society of the Pacific
conference series; v.362)

Astronomical Soc./Pacific, ©2007 322 p. \$77.00

These proceedings of the November 2005 conference include descriptions of research in topics ranging from the births to the deaths of stars, single stars to multiple stellar systems, normal stars to the truly strange and from the stable to the widely variable, with most presentations describing optical observations and theories on binary stars and neutron stars. The papers on binary systems include the interplay between diffusion and accretion in nuclear reactions and tidal effects in binaries, while those on compact star systems include reports on the phase-resolved spectra of the crab pulsar and high energy emissions from strange stars. Papers cover cataclysmic and symbiotic variables (amongst others) and include such topics as the structure and evolution of magnetic cataclysmic variables, while those on star formation and stellar clusters include papers on the initial mass function of stars and a simulation of protostar flares and the expected x-ray spectrum.

QB806 2006-037043 978-0-8165-2654-3
Protostars and planets V.

Title main entry. Ed. by Bo Reipurth et al. (The University of Arizona
space science series)

U. of Arizona Press, ©2007 951 p. \$90.00

Derived from the Protostars and Planets V conference held in October 2005 on the island of Hawaii, and featuring a focus on the early evolution of the solar system, the chapters of this large volume present the current state of knowledge in the field, co-authored by an international array of 249 scientists. The chapters are grouped into nine major topics: molecular clouds, star formation, outflows, young stars and clusters, and circumstellar disks, among others. Water in the small bodies of the solar system, comparative planetology and the search for life beyond the solar system, and growth of dust as the initial step toward planet formation comprise a small sample of the topics of individual chapters. Each of the chapters includes an abstract and list of references. The volume is authoritative but approachable and will be useful to students as well as specialists in astronomy.

QB820 2007-925456 978-1-58381-234-1
Transiting extrasolar planets; proceedings.

Transiting Extrasolar Planets Workshop (2006: Heidelberg, Germany)
Ed. by C. Afonso et al. (Astronomical Society of the Pacific conference
series; v.366)

Astronomical Soc./Pacific, ©2007 342 p. \$77.00

Sixty-one papers from the September 2006 workshop discuss methods for finding extrasolar planets by detecting their transit around a star, and report the results of recent transit surveys. Several of the contributions focus on the determination of planetary system parameters after observations are complete. Topics include an optimal deconvolution-based photometric reduction method, signal search and reconstruction by a trend filtering algorithm, the color of noise in SuperWASP data, the life cycle of an XO planet, and planetary transits in the Lupus galactic plane. No index is provided.

PHYSICS

QC16 2007-271614 978-1-4027-3787-9
E = Einstein; his life, his thought and his influence on our culture.

Title main entry. Ed. by Donald Goldsmith and Marcia Bartusiak.
Sterling Publishing Co., ©2006 352 p. \$19.95

The current bestseller list (Isaacson's biography) reflects continuing interest in Einstein. Goldsmith (astrophysicist, Berkeley, CA) and Bartusiak (science writing, Massachusetts Institute of Technology) present 30 reprinted essays (1979-2005) exploring the scientific, political, personal, and cultural icon aspects of the 20th century's most renowned physicist. Leading scientists including Stephen Hawking are contributors. The anthology includes an Einstein chronology (1879-1955) cross-referenced to the essays; contextual asides; photographs; and illustrations relating to his revolutionary theories.

QC16 2007-000832 978-0-7503-0755-0
Yoshio Nishina; father of modern physics in Japan.

Kim, Tong-won.

Taylor & Francis, ©2007 195 p. \$69.95

Kim (history of science and technology, Johns Hopkins U.) intends this biography of Yoshio Nishina to add dimension to the physicist's reputation, which in the West is limited to his co-founding of the Klein-Nishina formula, and in East Asia is that of a flawless idol. Nishina studied under Niels Bohr, mentored two Japanese Nobel Laureates, and while at the Institute of Physical and Chemical Research at Riken completed significant research on cosmic rays and the controversial construction of two cyclotrons. The author tells his story with an eye to the questions of how Nishina practiced physics, how good he was, and what he contributed to Japanese and global science.

QC20 2006-051255 978-0-89871-625-2
Continuum modeling in the physical sciences.

Title main entry. Ed. by E. van Groesen and Jaap Molenaar.

(Mathematical modeling and computation)

SIAM, ©2007 228 p. \$65.00 (pa)

Van Groesen (University of Twente) and Molenaar (Wageningen University) apply dimensional analysis, the transport theorem, differential equations, wave equations, and variational models to problems from the natural sciences. The undergraduate textbook explains conservation principles, constitutive relations, stability, robustness, polymer dynamics, fiber spinning, surface water waves, and waveguide optics.

QC20 978-3-527-40627-2
Introduction to mathematical physics.

Vaughn, Michael T.

Wiley-VCH, ©2007 527 p. \$75.00 (pa)

The marriage between mathematics and physics is a long and hardy one with many similarly advantaged progeny. Vaughn (physics, Northeastern U.) transmits this understanding of how mathematics and physics work together in this text for beginning graduate students in physics, engineering, and related disciplines. His chapters could also serve professionals needing specific information or reminders as he covers infinite sequences and series, finite-dimensional vector spaces, geometry in physics, functions of a complex variable, differential equations and related analytical methods, Hilbert spaces, linear operators on Hilbert space, partial differential equations, finite groups, Lie groups and Lie algebras. Vaughn supplies exercises, bibliographies and notes with each section and uses a range of applications throughout to explain concepts and maintain inter-disciplinary interest. The result is accessible, thorough and, in the case of many of the examples, fun.

QC20 2007-060768 978-0-8218-4089-4
Probability and mathematical physics; a volume in honor of Stanislav Molchanov.

Title main entry. Ed. by Donald A. Dawson et al. (CRM proceedings & lecture notes; v.42)

American Mathematical Society, ©2007 475 p. \$129.00 (pa)

Molchanov (mathematics, North Carolina U.) accomplished much (he has published over 250 papers), and not the least of which was his participation in the development of the intermittency theory for non-stationary random particles. These papers by friends, students and colleagues indicate the range of his study and his generosity, as the cover such topics as some new estimates on the spectral shift functions associated with random Schrödinger operations, asymptotics of the Poincaré functions, localization of low energies for attractive Poisson random Schrödinger operators, Fermi-Dirac generators and tests for randomness, a hierarchical Anderson model, Green's functions of generalized Laplacians and orthogonal polynomials with exponentially decaying recursion coefficients. The editors include a biography of Molchanov.

QC21 2007-061153 978-0-393-97422-5
Physics for engineers and scientists, 3d ed. (parts 1-5, chapters 1-36)

Ohanian, Hans C. and John T. Markert.

W.W. Norton, ©2007 1339 p. \$149.50

Coverage in this third edition text includes motion, force, and energy oscillations; waves; fluids temperature; heat; thermodynamics; electricity and magnetism; waves and optics; and the theory of special relativity. Ohanian is affiliated with the U. of Vermont; Markert, with the U. of Texas at Austin.

QC21 2006-936870 978-0-495-01312-9

Physics for scientists and engineers, 7th ed. (Instant Access included)

Serway, Raymond A. and John W. Jewett, Jr.
Brooks/Cole Publishing, ©2008 1152 p. \$183.95

This introductory text for undergraduates covers fundamental topics in classical physics and provides an introduction to relativity and modern physics. A general problem-solving strategy is outlined in Chapter 2, and this strategy is employed explicitly in every example. For this seventh edition, Serway (James Madison University) and Jewett (California State Polytechnic University) have added new chapter questions and problems designed to hold student interest, and present worked examples in a new two-column format, with steps for solving the problem on the left and mathematical manipulations and results on the right. The format for chapter summaries has been revised to include three sections on definitions, concepts, and analysis models for problem-solving. The math appendix is updated to show math tools such as algebra, trigonometry, and calculus in a physics context. There is also new material on analyzing deformable systems.

QC23 2007-927947 978-0-495-11943-2

Inquiry into physics, 6th ed.

Ostdiek, Vern J. and Donald J. Bord.
Brooks/Cole Publishing, ©2008 520+ p. \$132.95 (pa)

A tennis racquet exerts a large force on the tennis ball for a short time. A radio is a detector that can select a single-frequency radio wave. With simple examples like these, lively excursions into the lives and works of people essential to the development of modern physics, and a strong reliance on words rather than numbers, this text for high school or non-major undergraduate students draws heavily on everyday phenomena to get the point across. Authors Ostdiek (physics, Benedictine College) and Bord (physics, U. of Michigan, Dearborn) have thoroughly updated this edition to be sure beginning physics students will get basic concepts such as motion, Newton's laws, energy and conservation laws, the physics of matter, temperature and heat, waves and sound, electricity, electromagnetism and electromagnetic waves, optics, atomic physics, nuclear physics, special relativity and elementary particles.

QC28 2007-011160 978-1-934015-26-1

Engineering physics; fundamentals and modern applications. (CD-ROM included)

Khare, P. and A. Swarup.
Infinity Science Press, ©2007 566 p. \$69.95

This text/reference and CD-ROM package provides students, practicing engineers, and scientists with the fundamental physical laws and current applications used in industry. Coverage encompasses modern physics theory (quantum physics) and its current applications, such as laser techniques and fiber optics, nuclear fusion, and digital electronics. An extensive review of Boolean algebra and logic gates is included. The text emphasizes only the level of mathematics needed to master concepts used in industry. With in-text examples, solutions, and self-study exercises, the book can be used as a refresher for engineering licensing exams or as a text for a full-year course. The CD-ROM contains simulations and third-party software demos. Khare is a university instructor. Swarup is a consultant for the World Bank's Energy Access Project.

QC173 978-0-88385-336-8

Hesiod's anvil; falling and spinning through heaven and earth.

Simoson, Andrew J. (The Dolciani mathematical expositions; no.30)
Mathematical Assn. of America, ©2007 344 p. \$54.95

How could Dante's imaginary model of the earth imply the existence of a black hole at its core? How did Hesiod, a contemporary of Homer, decide the universe was the length a hammer would fall in nine days? Simoson (King College) finds such questions fascinating and intends to make students with a year or so of calculus in their heads to feel the same. He calls upon all the muses and much that is amusing to describe how artists and writers perceived the movements of the heavens and physical phenomena, and accounts for such topics as space travel and habitation, and perceptions of space-time or even just plain old space and time. Simoson also retrieves the venerable H.G. Wells from time to time, falls through the various images of earth, and scans some beautiful curves. Written as an enrichment text, it also serves as inspiration for honors projects.

QC173 978-0-19-921486-0

Liquid crystal elastomers.

Warner, M. and E. M. Terentjev. (International series of monographs on physics; no.120)
Oxford U. Press, ©2007 407 p. \$59.50 (pa)

Warner and Terentjev (both U. of Cambridge) examine the phenomena arising when liquid crystals and polymers are combined into a material even more mysterious than its parents. They concentrate on such polymers that are cross-linked into networks: elastomers and gels made from polymer liquid crystals. Much has happened in the field since the cloth edition was published in 2003, but rather than trying to stuff all the new developments between paper covers, they focus on nematic photo-elastomers and smectic elastomers.

QC173 2007-011307 978-0-393-06013-3

The new time travelers; a journey to the frontiers of physics.

Toomey, David M.
W.W. Norton, ©2007 391 p. \$25.95

Long a topic of speculation for science fiction, the possibility of time travel has in more recent years become a more serious subject of study for theoretical physics, based on work in special and general relativity, quantum mechanics, and provisional models of quantum gravity. Toomey (technical and nonfiction writing, U. of Massachusetts-Amherst) summarizes these efforts for a general audience.

QC174 2007-060762 978-0-8218-4062-7

Geometric and topological methods for quantum field theory; proceedings.

Summer School on Geometric and Topological Methods for Quantum Field Theory (2005: Villa de Layva, Colombia) Ed. by S. Paycha and B. Uribe. (Contemporary mathematics; 434)
American Mathematical Society, ©2007 255 p. \$79.00 (pa)

Based upon lectures and other communications at the July 2005 summer school, this introduces readers to some recent developments in active research on the interface between geometry, topology and quantum field theory. In five survey lectures the contributors cover anomalies and non-commutative geometry, deformation quantization and Poisson algebras, and topological quantum field theory and orbifolds. These are followed by nine cutting-edge articles with topics including n-flat connections, Dirac equations in a black hole background, homological matrices, quantitative properties of stratified flows, property (T) and tensor products by certain irreducible finite dimensional representations, Painleve equations for invariant instantons, quantum statistical mechanics and class field theory, Kashiwara's quantization of complex contact manifolds and K-theoretic labeling for quasicrystals.

QC174 978-81-902190-9-9

Quantization in astrophysics, Brownian motion, and supersymmetry.

Title main entry. Ed. by F. Smarandache and V. Christianto.
MathTiger, ©2007 504 p. \$89.95 (pa)

With recent discoveries of planets outside our solar system but within our galaxy, questions about quantization have become hotter as we seek to understand the configurations of those off-worlds. This collection of 26 articles includes those from peer-reviewed journals that give background to such questions as the nature of Tiffit redshift and generalized Schrödinger equations; Weyl geometry, extended relativity, supersymmetry and their applications in astrophysics; the pion condensate, including five articles authored or co-authored by Christianto; Cartan-Weyl space time, torsion fields and Navier-Stokes; and the hypergeometrical universe, pioneer anomalies and quaternion relativity. The publisher is located in Chennai, Tamil Nadu, India.

- QC174 978-3-527-40687-6
Quantum theory of optical coherence; selected papers and lectures.
 Glauber, Roy J.
Wiley-VCH, ©2007 639 p. \$165.00
 This work compiles the most renowned and groundbreaking articles and lectures by Nobel Laureate Roy J. Glauber. It includes his lectures held at the Les Houches summer school in 1964 on "Optical Coherence and Photon Statistics," which has been a milestone for generations of students and researchers. Some other topics addressed are the quantum theory of optical coherence, correlation functions for coherent fields, quantum theory of parametric amplification, photon statistics, and coherence and quantum detection. Amplifiers and attenuators, the quantum mechanics of trapped wavepackets, superfluorescence, and density operators for fermions are some other areas examined. A foreword gives a brief overview of Glauber's career and accomplishments. Glauber is affiliated with Lyman Laboratory at Harvard University. The book can be used not only as a reference for experts, but also for graduate students and beginning researchers who wish to gain insight into the basic theories of the field.
- QC174 978-0-19-921151-7
Scale-free networks; complex webs in nature and technology.
 Caldarelli, Guido.
Oxford U. Press, ©2007 309 p. \$98.50
 Thinking systematically, many social and scientific phenomena can be described in a mathematical framework. Exemplars of such phenomena range from governance to food systems and even human interactions in workplaces. Caldarelli (finance, U. Sapienza, Rome) finds these systems to have only a few elements with many connections and many with only a few, a situation he says is a "scale-free" network. He describes the theoretical underpinnings and algorithms necessary to study these structures and features by introducing readers to graphs, and then explains communities in terms of graph structures, scale-invariance, the origins of power-law functions, and graph-generating models, then gives examples in the forms of networks in the cell, geophysical and ecological networks, the Internet and the world-wide web, social and cognitive networks and financial networks. The appendices include a glossary and material on graph quantities, basic statistics, matrices and eigenvectors, and population dynamics.
- QC175 1-58488-760-5
The quantum phase operator; a review.
 Barnett, Stephen M. and John A. Vaccaro. (Series in optics and optoelectronics)
Taylor & Francis, ©2007 499 p. \$129.95
 Since the early days of modern quantum theory describing the phase of an electromagnetic field mode or harmonic oscillator has been an obstacle to progress. The quantum phase operator problem only got worse with the invention of the maser and laser, and was only resolved with the Pegg-Barnett formalism developed in the 1980s. This brings together the most significant works published on the ideas that led to the current theory of the phase operator and provides a clear picture of the progress made since Pegg-Barnett. These key historic and modern papers trace the development of the quantum phase observation theory, including the early difficulties, by covering the precursors of the 1920s through the 1980s, the phase operator, including the original Pegg-Barnett papers, mathematical elaborations from the 1990s, phase dynamics and uncertainty, the theory of phase measurement, experimental demonstrations, and as an added treat, relevant papers on time.
- QC176 2006-052651 978-0-8412-3843-5
Electron correlation methodology.
 Title main entry. Ed. by Angela K. Wilson and Kirk A. Peterson. (ACS symposium series; 958)
American Chemical Society, ©2007 218 p. \$155.00
 Computational chemistry is one of the fastest-growing fields of study in science, but *ab initio* calculations are often costly in terms of time, memory, and disk space. This is particularly so in such fields as bond breaking, determining the best approach toward functional development in density functional theory, aspects of thermonuclear kinetics and reliable predictions of the molecular properties of transition metal systems. These 12 papers address methods and approaches for these specific applications and for the reduction of computing cost in general, with topics including explicitly correlated basis functions for large molecules, Hartree-Fock-Wigner calculations in a two-electron-density functional theory, the spin-flip method, electronic descriptions of electron correlation, multilevel methods for thermochemistry and thermochemical kinetics, and the equilibrium structure of the silicon timer.
- QC176 2007-921347 978-0-87339-664-6
Materials processing under the influence of external fields; proceedings.
 TMS Annual Meeting & Exhibition (2007: Orlando, FL) Ed. by Qingyuo Han et al.
TMS (Minerals, Metals...Soc.), ©2007 246 p. \$60.00 (pa)
 Twenty-nine papers from the February 2007 symposium report on the development of high-performance materials through processing in extreme environments involving various field phenomena. The researchers investigate the use of magnetic field, electro-magneto field, electric field, ultrasonic vibrations, and microwaves for processing metal and alloys, organic materials, and ceramics. Topics include rapid ceramic processing by field-assisted sintering, the degassing of molten aluminum using ultrasonic vibrations, solidification behavior under intensive forced convection, and steel production with microwave-assisted electric arc furnace technology.
- QC176 2006-020627 978-1-60021-326-7
Spectroscopy of solid-state laser and luminescent materials.
 Luo, Zundu et al.
Nova Science Publishers, ©2007 353 p. \$69.00
 This work explores spectroscopic principles of rare earth ions and transition metal ions doped in solids as active ions of lasers and luminescent emissions. Coverage progresses from elements of atomic spectroscopy and basic mathematical theory of symmetry, through rare earth ions, light emission and absorption, lattice vibration, nonradiative transition, and spectroscopic properties of rare earth ions in nanocrystals. Five appendices provide mathematical tables. The book derives all calculation formulas from first principles of physics. Unlike other books, discussions in this book are based on the fact that the media environment of active ions is composed of host materials instead of a vacuum. The book can be used as a reference for researchers in solid-state physics, spectroscopy, and laser and luminescent science and technology, and as a supplemental text for advanced undergraduate and postgraduate students with some understanding of optics, quantum mechanics, spectroscopy, and condensed matter physics. The review copy contained frequent minor grammatical mistakes due to rough translation. Author information is not given.
- QC178 978-0-19-921252-1
Quantum gravity, 2d ed.
 Kiefer, Claus. (International series of monographs on physics; 136)
Oxford U. Press, ©2007 361 p. \$120.00
 Quantum gravity is the field of theoretical physics that attempts to reconcile quantum mechanics with Einstein's theory of relativity. This volume by Kiefer (Institute for Theoretical Physics, U. of Cologne) introduces quantum gravity in its broad outlines. He explores the general features that a quantum theory of gravity is expected to show and gives an overview of the primary approaches. Chapters discuss covariant approaches to quantum gravity, parametrized and relational systems, Hamiltonian formulation of general relativity, quantum geometrodynamics, quantum gravity with connections and loops, quantization of black holes, quantum cosmology, string theory, and quantum gravity and the interpretation of quantum theory.
- QC183 978-90-6764-455-6
Adhesion aspects of thin film; v.3.
 Title main entry. Ed. by K.L. Mittal.
VSP Publications, ©2007 276 p. \$162.00
 These papers include those presented at the Second International Symposium on Adhesion Aspects of Thin Films (including Adhesion Measurement and Metallized Plastics) held in Savannah, Georgia in November 2005 and cover leading research on the stress and adhesion aspects of thin films and on characteristics of metallized plastics. Specific topics include control of refractive index and internal stress in tantalum oxide films deposited by modified plasma sputtering, adhesion layer effects on the fabrication of MEMS-based PZT devices deposited on substrates coated with silicon nitride, adhesion assessment of ultra-thin plasma-polymerized coatings on stainless steel stents using the small punch test, surface modification of micro-patterned polytetrafluoroethylene films through grafting of viologen for electronless metallization and surface treatments of plastic substrates for improved adhesion of thin metal films through ion bombardment for an anode layer ion source. VSP is a subsidiary of Brill.

- QC183 978-90-6764-452-5
Silanes and other coupling agents; proceedings; v.4.
 Symposium on Silanes and Other Coupling Agents (5th: 2005: Toronto, Canada) Ed. by K. L. Mittal.
VSP Publications, ©2007 409 p. \$242.00
 Twenty-six papers are compiled here, from the proceedings of the Fifth International Symposium on Silanes and Other Coupling Agents, held in Toronto, Canada, in June of 2005. Presenters are from academia, industry, and research organizations around the world. Their papers cover the ramification of silanes and coupling agents and fundamental and applied aspects. Sections focus on silane coupling agents, corrosion inhibition and protection, and general topics. These include adsorption on a variety of substrates, investigation of silane-substrate interactions, composites, and interaction with rubber. Additional topics are DNA immobilization, surface photografting, surface functionalization of textile fibers, self-assembled monolayers, application in dental biomaterials, various deposit methods, performance factors, metal and alloy surfaces, and relevance in nanotechnology. No index is provided. VSP is a subsidiary of Brill.
- QC189 2005-036608 978-0-19-518782-3
Rheology and processing of polymeric materials; v.1: Polymer rheology.
 Han, Chang Dae.
Oxford U. Press, ©2007 707 p. \$174.50
 Han (polymer engineering, U. of Akron) has written a two-volume opus (the volumes are sold individually) laying out the rheological behaviour of polymer materials in v.1 and their applications in polymer processing in v.2. The initial chapters of v.1 describe basic concepts, including the kinematics and stresses of deformable bodies, continuum and molecular theories for the viscoelasticity of flexible homogeneous polymeric liquids, and experimental methods for measurement of the rheological properties of polymeric fluids. These basics are followed by nine chapters detailing the rheological behavior of specific polymeric materials, including flexible homopolymers, miscible polymer blends, block copolymers, liquid-crystalline polymers, and thermoplastic polyurethanes. Both author and subject indexes are provided.
- QC189 2005-036608 978-0-19-518783-0
Rheology and processing of polymeric materials; v.2: Polymer processing.
 Han, Chang Dae.
Oxford U. Press, ©2007 579 p. \$174.50
 Han (polymer engineering, U. of Akron) has written a two-volume opus (the volumes are sold individually) laying out the rheological behavior of polymer materials in v.1 and their applications in polymer processing in v.2. Following on the foundations laid out in v.1, v.2 describes the basic processing operations used for thermoplastic polymers and thermosets. Rather than giving recipes, the chapters describe the basic concepts and principles behind the technology, offering engineers in the field thought-provoking material for potential future development. For thermosets, three processes are described: reaction injection molding, pultrusion, and compression molding. For thermoplastic polymers ten separate processes are described. All the chapters are well illustrated with diagrams, tables, drawings, and photos. Both author and subject indexes are provided.
- QC318 2007-008242 978-1-4200-5159-9
Mass transfer and separation processes; principles and applications, 2d ed.
 Basmadjian, Diran.
CRC / Taylor & Francis, ©2007 487 p. \$89.95
 Thoroughly updated to convey a greater sense of scale (with numerous photographs of installations) and to present the math as simply as possible, this edition also includes more information on biomedical and environmental applications as well as newly worked examples and exercises. Basmadjian (late chemical engineering, U. of Toronto) took pains to continue his tradition of providing a lively and accessible text while covering basic rates of mass transfer, modes of mass transport, diffusion through gases and liquids as well as solids, transient diffusion and diffusion with reaction, phase equilibria, staged operations, continuous-contact operations, and simultaneous heat and mass transfer. He included appendices on the D-operator methods and hyperbolic functions and ODES.
- QC367 2006-036226 978-0-471-48404-2
Optical shop testing, 3d ed. (CD-ROM included)
 Title main entry. Ed. by Daniel Malacara.
Wiley-Interscience, ©2007 862 p. \$150.00
 Malacara (Centro de Investigaciones en Optica, Mexico) presents an updated edition of a text describing all of the tests used in optical shop testing. Its 18 chapters cover the Newton, Fizeau, Haidinger, Twyman-Green, common-path, lateral shear, radial shear, rotational shear, reversal shear, multiple-beam, and multiple-pass interferometers; the Foucault, wire, phase modulation, Ronchi, Hartmann, Hartmann-Shack tests; star tests; testing of aspheric wavefronts and surfaces; Zernike polynomial and wavefront fitting; phase shifting interferometry; surface profilers, multiple wavelength, and white light interferometry; optical metrology of diffuse surfaces; angle, prisms, curvature, and focal length measurements; and mathematical representation of an optical surface and its characteristics. In order to maintain a reasonable length for the text despite the expanded coverage for the new edition, mathematical description has been significantly reduced and all but the most relevant references have been relegated to the accompanying CD-ROM. The CD-ROM also contains two Windows programs, one of which displays common interferogram types, test patterns, and transverse or wave aberration functions, while the other helps in the design of phase shifting algorithms with the desired properties by using Fourier mathematical representation.
- QC374 2006-038151 978-0-8247-2761-1
Physical properties and data of optical materials.
 Title main entry. Ed. by Moriaki Wakaki et al. (Optical science and engineering; 125)
CRC / Taylor & Francis, ©2007 561 p. \$139.95
 Two professors at Tokai University chart optical properties from the vacuum ultraviolet region to the infrared region for 102 metal, semiconductor, and ionic crystal materials. Organized alphabetically, each entry summarizes the crystal system, natural production and artificial growth methods, and electrical properties before commenting on transmittance and reflectance spectra, optical constants, the dispersion relation, emissivity, and spectroscopy applications. The electrical engineering reference is partially based on *Figures and tables of fundamental physical properties of optical materials* published in 1972 by Kyoritu Shuppan Co.
- QC374 2006-018373 978-1-60021-290-1
Trends in optical materials research.
 Title main entry. Ed. by Owen G. Gardens.
Nova Science Publishers, ©2007 266 p. \$129.00
 Progress on optical materials and their applications seems to be approaching the speed of light itself. The array of materials now extends to crystals, films, fibers, glass, certain composites and exotic materials still under basic research. This collection of papers includes several on laboratory testing and measurement techniques for new materials and others covering such topics as the optical properties of certain derivatives investigated by a range of standard methods, studies on the morphology of organic molecules in thin solid films, up-conversion luminescence properties of rare-earth doped oxide nanocrystals, the photo-physics involved in the excitation of pyryllium slats, and reports on materials employing new combinations of chemicals, silica and new materials.
- QC454 2006-027635 978-0-471-68229-5
Fundamentals of contemporary mass spectrometry.
 Dass, Chhabil.
Wiley-Interscience, ©2007 585 p. \$110.00
 Mass spectrometry has become a significant research and diagnostic tool with particular impact in proteomics and drug delivery. Dass (chemistry, U. of Memphis) concentrates on modern mass spectrometry instrumentation, techniques and applications, bringing practitioners up to date while simultaneously serving as a classroom text. Dass starts with the basics of operation and then covers modes of ionization, mass analysis and ion detection, tandem mass spectrometry, hyphenated separation techniques, organic mass spectrometry, inorganic mass spectrometry, structure determination of proteins and peptides and their post-translational modifications, higher order structures, oligosaccharides, characterizations of lipids, and structure determination of oligonucleotides.

QC454 2007-011030 978-0-470-06978-3

A practical guide to magnetic circular dichroism spectroscopy.

Mason, W. Roy.

Wiley-Interscience, ©2007 223 p. \$125.00

Mason (chemistry and biochemistry, Northern Illinois U.) explains magnetic circular dichroism (MCD) spectroscopy and its use in the interpretation of molecular electronic spectra. The presentation is descriptive to help the reader visualize the optical spectroscopic effects of MCD measurements. The text begins with discussions of polarized light and the theoretical framework and includes lengthy chapters of case studies. Chapters on magnetic vibrational circular dichroism (MVCD) and x-ray magnetic circular dichroism (XMCD) and magnetic linear dichroism spectroscopy round out the book. Familiarity with wave properties of light, quantum chemistry, electronic states, and molecular structure is assumed. Scientists and graduate students in spectroscopy, organometallic chemistry, nanotechnology, and bioinorganic chemistry are the intended audience for the book.

QC462 2006-029158 978-1-4200-0693-3

Optical spectroscopy of lanthanides; magnetic and hyperfine interactions.

Wybourne, Brian G. and Lidia Smentek.

CRC / Taylor & Francis, ©2007 333 p. \$199.95

The late Wybourne, a pioneer in the spectroscopy of rare earth ions who taught at Nicolaus Copernicus U. in Poland, and Smentek, a professor of chemistry at Vanderbilt U., provide a theoretical description of spectroscopic properties of lanthanides doped in various materials. Smentek adapted Wybourne's lecture notes for about half of the book, which, before his death, they had meant to write together. The lecture format is kept, when possible, and includes MAPLE routines, several derivations of new expressions, and additional problems. The book begins with the basic knowledge of the theories of nuclei and angular momentum, develops through the standard description of the fine and magnetic hyperfine interactions, and their impact on the energy structure of the lanthanide ions, and includes advanced description of f to f electric and magnetic dipole transitions. This includes sensitized luminescence and its application in the detection and treatment of cancer in various tissues. One chapter discusses radial integrals.

QC463 2007-006014 978-0-470-01662-6

Vibrational spectroscopy of polymers; principles and practice.

Title main entry. Ed. by Neil J. Everall et al.

John Wiley & Sons, ©2007 574 p. \$225.00

Vibrational spectroscopy, according to Everall (ICI Measurement Science Group, UK), Chalmers (VS Consulting, UK), and Griffiths (U. of Idaho, US), continues to have a vital impact in applied and fundamental polymer research in areas ranging from fundamental studies of polymer structure to the control of the manufacturing process. Covering both infrared and Raman spectroscopy, their volume collects 17 papers describing recent research and applications of vibrational spectroscopy in polymer research. They have sought a balance between discussions of spectroscopic theory, instrumentation, polymer science, and applications. Specific topics include measurements of the chemical and physical characteristics of polymers, depth profiling of polymers, measurement of the thermal and solar properties of polymers, polymer optical and dielectric properties, infrared linear dichroism of polymers, trichroic infrared measurements of orientation, dynamic infrared linear dichroism of polymers, analysis of rubber composites, and theory and applications of vibrational spectroscopy of conducting polymers.

QC479 2006-037695 978-1-4200-5270-1

Cathodoluminescence and photoluminescence; theories and practical applications.

Ozawa, Lyuji. (Phosphor science and engineering; v.2)

CRC / Taylor & Francis, ©2007 155 p. \$99.95

Startling new research goes on in the fields of cathodoluminescence (CL) and photoluminescence (PL). One of the pioneers and practitioners in the field, Ozawa focuses on getting more out of the possibilities within CL and PL, although he makes sure readers also receive a solid theoretical background. He covers luminescent properties generated in phosphor particles, improved luminescence from phosphor screens in display devices, improving the image quality of phosphor screens in CL displays, screening phosphor powders on faceplates and the production of phosphor powders. Dr. Ozawa should be commended for his close attention to safety issues in CL and PL production and research.

QC485 2005-031796 978-1-59454-793-5

Frontiers in cosmic ray research.

Title main entry. Ed. by Igor N. Martsch.

Nova Science Publishers, ©2007 25 p. \$129.00

Physicists, most in eastern Europe and Russia, report their own research and that of others into cosmic rays. Among their topics are primary cosmic ray studies based on atmospheric Cherenkov light techniques at high-mountain altitude, possible sources and spectra for ultra-high energy cosmic rays, and the search for cosmic antimatter.

QC611 2006-030548 1-60021-462-2

Recent developments in superconductivity research. (CD-ROM included)

Title main entry. Ed. by Barry P. Martins.

Nova Science Publishers, ©2007 350 p. \$129.00

This volume collects nine examples of recent research into high-temperature superconductivity and its applications. The papers discuss progress towards room-temperature superconductivity, synthesis and thermophysical performance of barium doped bismuth-based superconductors, development and characteristics of joint properties in bismuth-2223/silver tape and coil, preparation and thermopower behavior of new cobalt oxyhydrates prepared by the aqueous permanganate solution, vortex state microwave response in superconducting cuprates, and universal cause of high-temperature superconductivity and anomalous of heavy fermion metals.

QC665 978-0-471-26388-3

Electromagnetic fields, 2d ed.

Van Bladel, Jean G. (IEEE Press series on electromagnetic wave theory)

Wiley-Interscience, ©2007 1155 p. \$145.00

This update of the 1964 edition takes into account the application of massive computing power to complex problems in the fields of telecommunications and power as well as new developments in such industrial and medical areas of research as nondestructive testing, remote monitoring of forests, and tumor detection. In introductory chapters, Van Bladel (emeritus, Ghent U., Belgium) provides a survey of methods used in the field including linear analysis and variational techniques. Subsequent chapters apply these methodologies to specific types of problems relating to electrostatic fields, radiation, high- and low-frequency fields, and the electrodynamics of moving bodies. Technical appendices include various types of vector analysis and special functions (e.g., Bessel, Legendre, Mathieu, the delta function).

QC665 2007-004557 978-0-8194-6728-7

Electromagnetic wave propagation in turbulence; evaluation and application of Mellin transforms, 2d ed.

Sasiela, Richard J.

SPIE, ©2007 366 p. \$84.00

Writing for two groups—those interested in problems of electromagnetic wave propagation in turbulence, and those interested in evaluating integrals, Sasiela develops a systematic way of expressing solutions to problems of electromagnetic wave propagation in turbulence in integral form. He also develops Mellin transform techniques used to evaluate said integrals analytically and express the results either as infinite series or as sums of generalized hypergeometric functions.

QC718 978-1-59033-928-2

Advances in plasma physics research; v.5.

Title main entry. Ed. by Francois Gerard.

Nova Science Publishers, ©2007 249 p. \$105.00

These ten papers describe recent advances in plasma physics achieved by Russian, Central Asian, Indian, and Chinese researchers. Initial topics addressed include nonlinear hydromagnetic surface waves instability in porous media, microwave heating of the dense plasma in the epsilon device, the proportional discharge mechanism in nonelectronegative gases, shock wave surfing acceleration, observations of superluminescence in argon plasma by means of acoustic waves, and the role of complex magnitudes in plasma electrodynamics. Other subjects covered include electron gas oscillations in plasma theory and applications, effects of suction and injection on magnetohydrodynamic heat transfer in stagnation point flow with variable body temperature, and multiharmonic treatment of non-resonant growing of electromagnetic wave amplified by energetic electrons with ring-beam distribution.

- QC718 978-3-527-40681-4
Plasma processes and plasma kinetics; 586 worked out problems for science and technology.
 Smirnov, Boris M.
 Wiley-VCH, ©2007 572 p. \$100.00 (pa)
 In an effort to fill the gap between plasma physics textbooks and the real world students are likely to encounter, Smirnov (high temperatures, Russian Academy of Sciences) offers problems with a wide variety of applications, covering distribution and equilibria for particle ensembles, elementary processes in plasma, slow atomic collisions, collisions involving electrons, elementary radiative processes in excited gases, Boltzman kinetic equations, transport and kinetics of electrons in gases in external fields, transport of ions and atoms in gases and plasmas, kinetics and radiative transport of excitation in gases, processes in photoresonant plasmas, waves in plasma and electron beams, relaxation processes and processes with strong interactions in plasma, cluster plasma, aeronomy processes, and gas discharge plasmas.
- QC762 2007-060808 978-0-8412-3995-1
Modern NMR spectroscopy in education.
 Title main entry. Ed. by David Rovnyak and Robert Stockland. (ACS symposium series; 969)
 American Chemical Society, ©2007 390 p. \$150.00
 Nuclear magnetic resonance (NMR) spectrography has become essential to research in chemistry over the last decade or so, and it promises to contribute to more extraordinary advances in the near future, if upcoming researchers receive sufficient training to use it wisely and well. This collection of 24 articles describes the process current educators must take to train undergraduate students to use NMR across the curriculum, a sentiment endorsed by no less than six of these articles, with one encouraging NMR training for high school students. Contributors describe providing NMR training with computer modules that assisting teaching both theory and interpretation, and providing NMR training for students in physical chemistry, advanced organic chemistry, biochemistry, biophysics, and inorganic chemistry. The final three articles describe applications of permanent magnet Fourier transform NMR to the laboratory. Distributed by Oxford U. Press.
- QC774 2005-037944 978-1-57241-147-0
Marietta Blau—stars of disintegration; biography of a pioneer of particle physics.
 Strohmaier, Brigitte and Robert Rosner. (Studies in Austrian literature, culture, and thought)
 Ariadne Press, ©2006 220 p. \$27.00 (pa)
 Austrian physicist Blau (1894-1970) developed the photographic method for detecting nuclear particles in emulsion plates during the 1920s, which became one of the most successful tools for investigating nuclear phenomena. Though nominated three times for the Nobel Prize, she was not noted even with an obituary when she died. Fellow Austrian scientists Strohmaier and Rosner describe her life as a woman, a teacher and friend, and a scientist. Readers are not expected to know much physics. *Marietta Blau—Sterne der Zertrümmerung* was published in 2003 by Böhlau Verlag in Vienna; the English has been expanded.
- QC786 2007-397134 92-64-02857-9
Perspectives on nuclear data for the next decade; proceedings.
 Workshop on Perspectives on Nuclear Data For the Next Decade (2005: Bruyères-le-Châtel, France) Ed. by E. Bauge. (Data bank)
 OECD, ©2006 245 p. \$94.00 (pa)
 Thirty-two papers from the September 2005 workshop explore to what extent pure microscopic model-based evaluation can be performed on nuclear data, whether complex models such as MCAS and CDCC are ready to be used in evaluation, and the ability to supply complete uncertainty information at every stage of the modeling process. Topics include development of the photonuclear activation file, nuclear data for minor actinides, differential cross sections of complex particle emission reactions, Monte Carlo simulation of the fission fragments evaporation process, random matrix theory in statistical analysis of resonances, and nuclear data services. No index is provided.
- QC787 2006-102839 0-9638314-5-3
LSC 2005, advances in liquid scintillation spectrometry; proceedings.
 2005 International Liquid Scintillation Conference (2005: Katowice, Poland) Ed. by Stanislaw Chalupnik et al.
 Radiocarbon, ©2006 449 p. \$70.00
 These proceedings from the October 2005 conference recognize that ultra low level liquid scintillation spectrometry and alpha-beta discrimination are now state-of-the art and firmly established as primary tools, although recent concerns about radiation give spectrometry the edge. The editors also recognize the large number of young contributors, noting that the field continues to attract new research. The nearly 50 papers here cover such topics as instrumentation, including questions about new advances, methods that have proven efficacious, new and improved scintillators, natural and artificial radionuclides and the human health concerns for each along with steps being taken to improve safety, and work in tritium and radiocarbon.
- QC793 978-0-19-850871-7
Fundamentals of neutrino physics and astrophysics.
 Giunti, Carlo and Chung W. Kim.
 Oxford U. Press, ©2007 710 p. \$90.00
 Giunti (physics, U. di Torino) and Kim (physics, Korea Institute for Advanced Study and The Johns Hopkins U.) gather what we know about neutrino physics and astrophysics (and what we do not) based upon experimental data, and produce a self-contained reference for practitioners and students. They include thorough analyses of the data and the emergent theories as they cover quantized Dirac fields, the standard model, three-generation mixing, neutrino interactions, massive neutrinos, neutrino oscillations in vacuum and the associated theory, neutrino oscillations in matter, solar neutrinos, atmospheric neutrinos, terrestrial neutrino oscillation experiments, phenomenology of three-neutrino mixing, direct measurements of neutrino mass, supernova neutrinos, cosmology, and relic neutrinos. Appendices give background information on special relativity, Lagrangian theory, Gauge theories and Feynman rules of the standard electroweak model.
- QC793 2006-050482 1-58488-798-2
The new cosmic onion; quarks and the nature of the universe.
 Close, Frank.
 Taylor & Francis, ©2007 219 p. \$39.95 (pa)
 Although he has not designed this as a promotional tool for the Hadron Collider at CERN, Close (physics, Oxford U.) certainly excites curiosity and anticipation as he describes the experiments likely to be conducted there that will change our understanding of particle physics and thereby the universe. Close helps those whose reach exceeds their grasp of particle physics, explaining what we now understand of the nature of the universe, atoms, the nucleus, the forces of nature, nuclear particles and what he calls the “eight-fold way,” quarks, quantum chromodynamics, the electroweak force, charm, quantum foresight, CP violation, neutrinos, the bits beyond the standard model, and the relationship among cosmology, particle physics and the big bang, which is where one suspects the Hadron Collider could be especially handy.
- QC871 978-0-86341-573-9
Thermal microwave radiation; applications for remote sensing.
 Title main entry. Ed. by C. Mätzler. (IET electromagnetic waves series; 52)
 IET, ©2006 555 p. \$99.00
 Mätzler (remote sensing, University of Bern) combines work on theoretical concepts with experimental results on thermal microwave radiation in this overview of the latest applications in the field. Emphasis is on radiative transfer models. Following a historical overview of radiative transfer and microwave radiometry, the book covers atmospheric, terrestrial, and technical factors affecting the use of thermal microwave radiation in remote sensing applications, with chapters on the absorption and emission spectra of atmospheric gases, the interaction of solid and liquid hydrometeors with microwave radiation, radiative-transfer modeling of the microwave surface emission, and dielectric properties of important materials found at the terrestrial surface. Appendices offer original data tables. Books from the UK's Institution of Engineering & Technology (IET) are distributed in the US by Books International.

- QC879 978-92-807-2823-1
Montreal Protocol on Substances that Deplete the Ozone Layer; 2006 assessment report of the Technology and Economic Assessment Panel (TEAP).
 Title main entry.
UN Environment Programme, ©2006 154 p. \$30.00 (pa)
 Updating the 2002 report, this 2006 report summarizes the current status and what has been achieved, what is left to be achieved, and the way forward with regard to curbing the impact of chemicals, foams, halons, medical applications, methyl bromide, refrigeration and air conditioning and heat pumps.
- QC879 978-92-807-2821-7
Montreal Protocol on Substances that Deplete the Ozone Layer; 2006 assessment report on the environmental effects of ozone depletion and the interaction with climate change.
 Title main entry.
UN Environment Programme, ©2006 209 p. \$40.00 (pa)
 This assessment reports on new findings since the last full assessment of 2002, in the areas of ozone and UV changes, health, terrestrial systems, aquatic ecosystems, air quality, and materials damage.
- QC879 978-92-807-2825-5
Montreal Protocol on Substances that Deplete the Ozone Layer; 2006 assessment report of the Halons Technical Options Committee (HTOC).
 Title main entry.
UN Environment Programme, ©2006 144 p. \$30.00 (pa)
 This report reviews progress that has been made in the military, civil aviation, merchant shipping, oil and gas production, and explosion suppression sectors to reduce the need for halons in fire protection systems, and assesses the current state of cooperative or individual arrangements to ensure adequate stocks of halons to meet future needs.
- QC879 978-92-807-2827-9
Montreal Protocol on Substances that Deplete the Ozone Layer; 2006 assessment report of the Methyl Bromide Technical Options Committee (MBTOC).
 Title main entry.
UN Environment Programme, ©2006 453 p. \$80.00 (pa)
 The Methyl Bromide Technical Options Committee was established by the Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer to identify existing and potential alternatives to methyl bromide (MB). This report by the committee examines MB usage, the quantities produced and consumed, and existing and potential alternative treatments for uses of MB as a soil fumigant, as a fumigant of durable commodities and structures, and as a fumigant for quarantine and pre-shipment.
- QC879 978-92-807-2822-4
Montreal Protocol on Substances that Deplete the Ozone Layer; 2006 assessment report of the Refrigeration, Air Conditioning and Heat Pumps Technical Options Committee. (RTOC); 2006 report.
 Title main entry.
UN Environment Programme, ©2006 223 p. \$50.00 (pa)
 This report offers an update on progress in the use of alternatives to ozone-depleting substances in the refrigeration, air conditioning, and heat pump industry. The report presents data summaries and surveys the status and research needs in areas of refrigerants, domestic and commercial refrigeration, large refrigeration systems, transport refrigeration, air conditioning and heat pumps, chillers, vehicle air conditioning, and refrigerant conservation.
- QC879 978-92-807-2826-2
Montreal Protocol on Substances that Deplete the Ozone Layer; 2006 assessment report of the Rigid and Flexible Foams Technical Options Committee (FTOC).
 Title main entry.
UN Environment Programme, ©2006 — p. \$30.00 (pa)
 Updating the 2002 assessment, this report surveys the technically viable options available to eliminate the use of CFC and other ozone depleting substances as blowing agents in a variety of industries worldwide. It concentrates on the transition status of each foam product group, and highlights issues affecting transition in different regions.
- QC944 2007-009742 978-0-15-101287-9
Storm world; hurricanes, politics, and the battle over global warming.
 Mooney, Chris.
Harcourt, ©2007 392 p. \$26.00
 The author of *The Republican War on Science*, whose mother's house was devastated by Hurricane Katrina, presents a fair examination of the facts, leading scientists' theories, political debate, media spin, and insurance industry concerns over whether global warming is causing more intense storms. Drawing on extensive interviews, the Washington journalist includes an explanation of hurricane and cyclone scales, and diagrams.
- QC981 978-9-97954-727-3
How the world will change with global warming.
 Valsson, Trausti.
University of Iceland Press, ©2006 168 p. \$19.95 (pa)
 While not a naysayer with regard to the global warming trend, Valsson (planning, U. of Iceland) atypically emphasizes advantages (yin) rather than the dark side (yang) of global warming. E.g., warming of the far North and increased Arctic shipping will compensate for areas that become too hot for habitation. The book includes color illustrations, websites, a glossary, and a poem reflecting his "Let's Embrace Change" attitude. Distributed in North America by The David Brown Book Co.
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- CHEMISTRY**
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- QD31 2006-933355 0-495-11282-8
Chemistry for today; general, organic, and biochemistry, 6th ed.
 Seager, Spencer L. and Michael R. Slabaugh.
Brooks/Cole Publishing, ©2008 761+ p. \$155.95
 Intended for nursing and life science students, this textbook introduces general and organic chemistry in sufficient breadth to make biochemistry understandable. The authors (Weber State University) describe chemical reactions, solutions and colloids, acids and bases, alkanes, unsaturated hydrocarbons, aldehydes, carbohydrates, proteins, enzymes, and amino acid metabolism. The sixth edition adds example chemistry questions found on typical entrance exams to allied health programs.
- QD31 2006-933543 0-495-11279-8
Introductory chemistry for today, 6th ed. (with Web access)
 Seager, Spencer L. and Michael R. Slabaugh.
Brooks/Cole Publishing, ©2008 403+ p. \$110.95 (pa)
 Volume one of this two-volume set introduces the structure of atoms and molecules, chemical reactions, the states of matter, the characteristics of solutions, reaction rates, acids and bases, and the importance of organic compounds. The sixth edition adds example chemistry questions from typical entrance examinations to allied health profession programs.
- QD31 2006-941020 978-0-534-49366-0
Principles of modern chemistry, 6th ed.
 Oxtoby, David W. et al.
Brooks/Cole Publishing, ©2008 1064 p. \$172.95
 Appropriate for college freshmen, this textbook introduces chemical formulas, atomic mass, the structure of elements and compounds, the ideal gas law, the properties of solids and liquids, equilibrium in chemical reactions, chemical kinetics, and the modern materials being used to develop new products. The sixth edition moves the quantum mechanics chapters to Unit II.
- QD39 978-0-470-11281-6
Reviews in computational chemistry; v.24.
 Title main entry. Ed. by Kenny B. Lipkowitz and Thomas R. Cundari.
Wiley-VCH, ©2007 500 p. \$175.00
 Although continuing in the tradition of providing the latest to professionals and especially students, this volume in the series is unique in that it contains a single monograph on confined fluids, including the thermodynamics of confined phases, elements of statistical thermodynamics, one-dimensional hard-rod fluids, mean-field theory, combined fluids with short-range interactions, confined fluids with long-range interactions, and statistical mechanics of disordered confined fluids. The appendices, which are extremely well done and should serve as a model for others to follow, include materials on the mathematical aspects of equilibrium and statistical thermodynamics, one-dimensional hard-rod fluids, mean-field theories, Monte Carlo simulations, Ewald summation and replica formalism. The authors hail from the Technische U. Berlin.

- QD39 978-1-58488-687-7
Self assembly; the science of things that put themselves together.
 Pelesko, John A.
Chapman & Hall/CRC, ©2007 307 p. \$59.95 (pa)
 The science of self-assembly offers the most promising route available to true molecular nanotechnology, proclaims Pelesko, and explains how it works in the natural world, engineered systems, and the future. He does not expect readers to be specialists in any particular field. Exercises are included for use in courses or for self-study.
- QD40 2006-011252 978-1-60021-186-7
Advances in chemistry research; v.2.
 Title main entry. Ed. by David V. Zinger.
Nova Science Publishers, ©2007 221 p. \$129.00
 This work compiles the latest research in chemistry, in areas including solar cells, brain chemistry, agricultural chemistry, and synthetic fuels. Ten chapters are presented, covering topics such as electrochemical processes for the treatment of organic pollutants, mathematical and experimental modeling of electrodialysis with ion exchange membranes, metallomacrocyclic complex bridged polymers, the catalytic concept of some phenomena in solid state transformations, and systemic *in vitro* and *in vivo* studies of urinary stones.
- QD77 2006-033572 978-0-471-76352-9
Discrimination of chiral compounds using NMR spectroscopy.
 Wenzel, Thomas J.
Wiley-Interscience, ©2007 549 p. \$110.00
 Researchers routinely use nuclear magnetic resonance (NMR) spectroscopy to determine optical purity and assign the absolute configuration of many classes of compounds, a process that requires mastery of a broad array of reagents. Wenzel (chemistry, Bates College) describes chiral NMR derivatizing solvating agents, metal-based reagents and liquid crystals and explains the compounds for which they can be used for analysis. He includes special cases such as ionic liquids and the formation of chiral aggregates from achiral building blocks and experimental strategies and reagents researchers can use as he describes aryl-containing carboxylic acids and other carboxylic acid-based reagents; hydroxyl- and thiol-containing reagents; amine-based reagents; organic-based chiral derivatizing and solvating agents; reagents incorporating phosphorus, selenium, boron and silicon atoms; host compounds as chiral NMR discriminating agents; chiral discrimination with metal-based reagents; and chiral NMR discrimination with highly ordered systems. His index is particularly comprehensive, as are his references.
- QD79 2006-036196 978-0-470-85902-5
Chemical analysis; modern instrumentation and methods and techniques, 2d ed.
 Rouessac, Francis and Annick Rouessac. Trans. by Francis Rouessac et al.
John Wiley & Sons, ©2007 574 p. \$165.00
 This text offers an explanatory review of the basic concepts behind 20 methods used most often for qualitative, quantitative, and structural chemical analysis in chemical, pharmaceutical, agricultural, and other sectors. Material is in sections on separation methods, special methods, and other methods. An introductory chapter covers general aspects of chromatography, and final chapters cover sample preparation and basic statistical parameters. Chapter problems and detailed solutions are included. The text is appropriate for undergraduate and post-graduate students, especially students of chemical analysis. Specialist technicians in university support, research, and industrial training will also find the book useful. This second edition is revised and updated throughout, and includes new material on emerging techniques such as APXS, AMS, and IMS, and devices such as AGS. A new chapter on elemental analysis has been added, and there are new problems. The authors are affiliated with the University of Le Mans, France. The book was first published in French in 1992 by Masson.
- QD96 2006-022115 978-0-471-19404-0
Fourier transform infrared spectrometry, 2d ed.
 Title main entry. Ed. by Griffiths, Peter R.
Wiley-Interscience, ©2007 529 p. \$115.00
 For this second edition of a reference for chemists, analysts, and students, Griffiths (chemistry, University of Idaho) adds new material reflecting advances in the field over the past 20 years, new chapters on different techniques for measuring spectra by Fourier transform- infrared (FT-IR) spectrometry, a new chapter on the theory of vibrational spectrometry, and a new chapter on FT Raman spectrometry. The book begins with an in-depth description of the theory and current instrumentation of FT-IR spectrometry, followed by descriptions of sampling techniques and data processing routines. The aim of the book is to provide users of FT-IR spectrometers with a detailed description of how their instruments work and the types of experiments that can be performed on even the less expensive instruments.
- QD151 59-13035 978-0-471-68242-4
Progress in inorganic chemistry; v.55.
 Title main entry. Ed. by Kenneth D. Karlin. (Series: title)
Wiley-Interscience, ©2007 759 p. \$175.00
 Inorganic chemistry has elicited sincere interest for some time and with its myriad commercial applications and the advent of new technologies the pace of study has sharply accelerated. These papers represent some of the latest developments and covers some surprisingly multidisciplinary topics, such as the elucidation of electron-transfer pathways in copper and iron proteins by pulse radiolysis; peptide- or protein-cleaving agents based on metal complexes; the structure of coordination polymers of the lanthanide elements; the supramolecular chemistry of gases; the organometallic chemistry of Rh-, Ir, Pd- and Pt-based radicals; unique complexes in the diverse world of metal-alkyne chemistry; oxygen activation chemistry of Pacman and Hangman porphyrin architecture based on xanthene and dibenzofuran spacers; metal-containing nucleic acid structures based on synergetic hydrogen and coordination bonding; and bispidine coordination chemistry.
- QD169 2006-022512 978-1-4051-3890-1
Organic reactions in water; principles, strategies and applications.
 Title main entry. Ed. by U. Marcus Lindström.
Blackwell Publishing, ©2007 405 p. \$199.99
 Linström (organic chemistry, McGill U., Canada) brings together 12 essays that examine the principles of using water as a reaction solvent and its effective use in synthetic organic chemistry. Examples of reactions performed with less than 50 percent water content are generally not included. Contributors, who are chemists and others from Europe, the US, and Asia, describe the physical and chemical properties of water; acid catalysis; metal-mediated C-C bond formations; pericyclic reactions; catalyzed reductions; oxidations; nucleophilic additions and substitutions; reactions in nearcritical water; biocatalysis; organic synthesis in aqueous suspension; and the chemical manufacturing industry perspective on the topic.
- QD253 2006-933546 978-0-495-11280-8
Organic and biochemistry for today, 6th ed. (with Web access)
 Seager, Spencer L. and Michael R. Slabaugh.
Brooks/Cole Publishing, ©2008 427+ p. \$122.95 (pa)
 Volume two of this two-volume set explains the structure, properties, and physiological effects of organic compounds, and describes the characteristics of carbohydrates, lipids, proteins, enzymes, nucleic acids, and nutrients vital for the human body. The sixth edition adds example chemistry questions from typical entrance examinations to allied health profession programs.
- QD255 2006-102177 978-0-471-71342-5
Computational organic chemistry.
 Bachrach, Steven M.
Wiley-Interscience, ©2007 478 p. \$110.00
 Bachrach (chemistry, Trinity U., Texas) provides a practical overview of computational methods and applications in organic chemistry that predict the structure and activity of organic molecules. Along with a very accessible text that steps briskly through the topics, and concise illustrations that work very well with the text, Bachrach offers extensive case studies, showing how certain methods work best in certain situations. He describes quantum mechanics for organic chemistry, fundamentals of organic chemistry, pericyclic reactions, diradicals and carbenes, organic reactions of anions, solution-phase organic chemistry, and organic reaction dynamics, all of which he punctuates with personal interviews with leading lights in the field. The result is definitely for majors but even some non-majors will find the approach accessible.

- QD255 2006-034748 0-471-76129-X
Comprehensive organic reactions in aqueous media, 2d ed.
 Li, Chao-Jun and Tak-Hang Chan.
Wiley-Interscience, ©2007 417 p. \$125.00
 The authors (both affiliated with McGill U., Canada) have updated and greatly expanded their earlier monograph on organic chemistry in water, *Organic Reactions in Aqueous Media*. Given the broadened nature of the subject, they have reorganized the material on the basis of functional groups and offer 12 chapters that parallel most classical organic chemistry textbooks in their coverage of alkanes, alkenes, alkynes, alcohols and ethers, organic halides, aromatics, aldehydes and ketones, carboxylic acid and derivatives, conjugated carbonyl compounds, amines, and pericyclic reactions.
- QD257 978-3-527-31302-0
Functional organic materials; syntheses, strategies and applications.
 Title main entry. Ed. by Thomas J. J. Müller and Uwe H. F. Bunz.
Wiley-VCH, ©2007 591 p. \$315.00
 Müller (chemistry, University of Düsseldorf, Germany) and Bunz (chemistry, Georgia Institute of Technology) offer an overview the development of modern functional organic materials, focusing on target molecules that have shown interesting properties as materials or models in physics, biology, and chemistry. Content is divided into four sections on 3-D carbon-rich systems, strategic advances in synthesis, molecular muscles, switches, and electronics, and the interplay of electronic interaction and structure. Some chapter topics are cyclophenacene from fullerene, diversity-oriented synthesis of chromophores, functional material via multiple noncovalent interactions, nonlinear optical properties of organic materials, and photoinduced electron transfer processes in synthetically modified DNA. The book is intended for graduate students and scientists working in the field of organic materials.
- QD262 2006-034932 978-0-471-92963-5
Organic synthesis; strategy and control.
 Wyatt, Paul and Stuart Warren.
John Wiley & Sons, ©2007 909 p. \$90.00 (pa)
 For chemists and students, Wyatt (chemistry, U. of Bristol, UK) and Warren (organic chemistry, U. of Cambridge, UK) provide a text on organic synthesis that follows Warren's *Organic Synthesis: The Disconnection Approach*, which focused on the planning behind the synthesis of compounds. In this volume, they focus on strategy and control: solving problems through alternative strategies or by controlling established ones. The sections cover selectivity, carbon-carbon single and double bonds, stereochemistry, and functional group strategy. The format moves from classic to modern methods and strategic considerations. Heterocyclic chemistry is incorporated throughout with full mechanistic explanations described as part of organic chemistry.
- QD281 2006-028909 978-1-60021-435-6
Monomer and polymers research frontiers.
 Title main entry. Ed. by Alberto D'Amore and Gennady Zaikov.
Nova Science Publishers, ©2007 152 p. \$89.00
 The 12 papers in this collection investigate the radical polymerization of methyl methacrylate initiated with threefold systems, the influence of media on radical copolymerization, and linear multiparametric equations for generalizing the effects of solvent-polymer interaction. The Russian researchers also explore thermo-mechanical destruction of polypropylene, polymer nanocomposite reinforcement, the fractal-like kinetics of the re-esterification reaction with a catalyst, and the structure and thermo-oxidation of polymer blends of isotactic polypropylene and triple ethylenepropylenediene.
- QD281 2006-025951 978-1-60021-415-8
Reactions and properties of monomers and polymers.
 Title main entry. Ed. by Alberto D'Amore and Gennady Zaikov.
Nova Science Publishers, ©2007 224 p. \$129.00
 The 11 papers collected in this volume examine how polymers react with ozone, oxygen, light, metals, and other chemicals. The Russian contributors discuss their research on liquid phase oxidation of alkanes in the presence of metal compounds, the reaction of ozone with aromatic compounds, ozonolysis of polybutadienes in solution, anti-adhesive coatings for food equipment, and the formation of polymers in fractal spaces. The papers appear to not have been edited by a native English speaker.
- QD381 978-3-527-31446-1
Macromolecular engineering; precise synthesis, materials properties, applications; 4v.
 Title main entry. Ed. by Krzysztof Matyjaszewski et al.
Wiley-VCH, ©2007 2826 p. \$540.00
 The four volumes of this impressive reference present up-to-date discussion of the world of macromolecular engineering in 65 chapters written by an international team of specialists. Vol.1 is devoted to the synthetic techniques used for preparing well-defined macromolecules—both organic and inorganic—with chapters on the biosynthesis of protein-based polymeric materials, segmented copolymers by mechanistic transformations, and polymerization under light and other external stimuli, among other topics. The elements of macromolecular architecture are the subject of Vol.2, with chapters on various aspects of microstructure control, functionalities, and non-linear topologies. Techniques used to achieve structure-property correlation and characterization are described in the 15 chapters of Vol.3, among them scanning calorimetry, chromatography, NMR spectroscopy, and high-throughput screening. The final volume is devoted to applications, where the story and processes associated with 18 significant and cutting edge applications are described, among them nanocomposites, tissue engineering, polymeric drugs, and polymer bioconjugates. The editors are Matyjaszewski (natural sciences, Carnegie Mellon U., Pittsburgh, PA), Yves Gnanou (polymeric chemistry, Bordeaux U., France), and Ludwik Leibler (Ecole de Physique et Chimie Industrielles, Paris, France).
- QD382 2006-035213 978-1-4051-3242-8
Handbook of industrial water soluble polymers.
 Title main entry. Ed. by Peter A. Williams.
Blackwell Publishing, ©2007 331 p. \$199.99
 Williams (polymer and colloid chemistry, North East Wales Institute of Higher Education, UK) presents an introduction to the functional characteristics of water-soluble polymers. His contributors cover natural thickeners, acrylic polymers as rheology modifiers for water-based systems, gelling agents, emulsification and encapsulation, polymeric flocculants, polymer micelles, water-soluble dendrimers, colloidal microgels, and industrial water-soluble polymers as packaging. Chapters often include discussion of specific applications.
- QD400 2006-016383 978-1-4051-3918-2
Heterocyclic chemistry at a glance.
 Joule, John A.
Blackwell Publishing, ©2007 150 p. \$32.99 (pa)
 This organic chemistry textbook explains the reaction of aromatic heterocycles with particular reagents. Separate chapters illustrate substitutions in pyridines, quinolines, diazines, pyrliums, pyrroles, indoles, furans, purines, and higher azoles. Joule is a retired professor of chemistry at the University of Manchester, and Mills worked 25 years at GlaxoSmithKline.
- QD415 978-1-4200-5917-5
Chemistry of natural products; amino acids, peptides, proteins and enzymes.
 Ahluwalia, V.K. et al.
CRC / Taylor & Francis, ©2006 249 p. \$62.96
 Designed to be accessible for undergraduates in a range of fields of study, including biochemistry and biotechnology, this text frequently uses clear illustrations and examples to get the point across painlessly. The authors point out that the study of natural products is an integral part of both undergraduate and graduate study in India and believe others would find their text useful as well, owing to their consistent and complete explanations of reactions. They work through amino acids, peptides, proteins and enzymes, providing a range of nomenclature, stereochemical aspects, physical properties, chemical reactions, industrial preparation, chemical synthesis and industrial applications. They provide exercises and a glossary. The result is a classroom text that could also serve as a quick reference.

- QD431** 978-1-58829-550-7
Peptide characterization and application protocols.
 Title main entry. Ed. by Gregg B. Fields. (Methods in molecular biology; 386)
Humana Press Inc., ©2007 342 p. \$99.00
 Fields (chemistry and biochemistry, Florida Atlantic U.) assembles 13 chapters by researchers from the US and Europe who discuss the characterization of peptides and their applications for the study of biochemical systems. They present the most recent advances in selected analytical techniques, including a comprehensive updating of high-performance liquid chromatography for the purification and evaluation of peptides. Mass spectrometry, the synthesis and characterization of membrane peptides, and specific applications are described, such as conformationally constrained peptides, drug and siRNA delivery, and peptides as imaging, anti-aggregatory, and antimicrobial agents.
- QD453** 978-0-8243-1058-5
Annual review of physical chemistry; v.58, 2007.
 Title main entry. Ed. by Stephen R. Leone et al.
Annual Reviews, ©2007 758 p. \$197.00
 The 27 contributions in the 2007 edition of this venerated series synthesize recent research on semiconductor exciton properties, quantized states of nanostructures, small molecule processes, and complex media such as membranes and molecular motors. Several of the papers address biophysical chemistry advances in lipid bilayers, cellular signal transduction, protein-folding pathways, and prion disease. Other topics include the theory of structural glasses and supercooled liquids, localized surface plasmon resonance spectroscopy, molecular architectonic on metal surfaces, isomerization through conical intersections, and exciton photophysics of carbon nanotubes.
- QD474** 2006-028497 978-0-471-46483-9
Integrated approach to coordination chemistry; an inorganic laboratory guide.
 Marusak, Rosemary A. et al.
Wiley-Interscience, ©2007 266 p. \$60.00
 Designed to lead undergraduate and graduate students on a progressive, graduated exploration in the inorganic field, this guide includes core chapters on the theory underlying the practice. With its emphasis on coordination chemistry but coverage of bioinorganic chemistry and instrumental analysis as well, the authors describe the history of early developments in inorganic chemistry and include five experiments with each topic, covering Werner's notion and the synthesis and analysis of cobalt ammine coordination compounds, molecular geometry and stability through solid and solution phase analysis, substitution reactions, electron transfer reactions, metals in medicine (including the synthesis and biological reactivity of a platinum anti-cancer drug), metals in environmental bioremediation and in molecular biology, and oxidation of a natural production by a catalyst. The appendices give plenty of background information for those needing a brush-up.
- QD476** 42-20265 978-0-470-09898-1
Organic reactions; v.68.
 Title main entry. Ed. by Larry E. Overman et al. (Series: title)
John Wiley & Sons, ©2007 552 p. \$130.00
 This volume in the series continues in the tradition of locating literature that will support the optimum conditions for the application of a single reaction, or definite phase of a reaction, of wide applicability. Further, it continues to convey an accurate conception of the scope and usefulness of the process, so syntheses that took months or even years of work receive adequate commentary for students and professionals to use in developing their own work. Here we see comprehensive coverage of the cotrimerizations of acetylenic compounds and glycosylation on polymer supports along with a very helpful list of cumulative chapter titles by volume. The editors include an author, chapter and topic indices for this and all the previous volumes.
- QD478** 2006-017227 978-1-60021-265-9
Focus on solid state chemistry.
 Title main entry. Ed. by Arte M. Newman.
Nova Science Publishers, ©2007 162 p. \$129.00
 The seven papers in this collection report the results of recent studies on the chemical, structural, thermodynamic, electrical, magnetic, and optical properties of solids. In the first and longest paper, a Chinese research team describes a sol-gel process for preparing charged hybrid membranes. Other topics include the synthesis of zeolites in alkaline media with fluoride anions, rare earth iron and manganese oxides, SMO powders synthesized by complex polymerization, and the effect of preparation parameters on the properties of perovskitic crystals.
- QD478** 2006-019702 978-1-60021-313-7
Progress in solid state chemistry research.
 Title main entry. Ed. by Ronald W. Buckley.
Nova Science Publishers, ©2007 311 p. \$129.00
 Research in solid state chemistry is the focus of this volume, which brings together seven studies of chemical, structural, thermodynamic, electronic, magnetic, and optical properties and processes in solids. Topics include bonding in solids, crystal chemistry, crystal growth mechanisms, diffusion epitaxy, high-pressure processes, magnetic properties and optical characterization of materials, order-disorder, phase equilibria and transformation mechanisms, reactions at surfaces, statistical mechanics of defect interactions, structural studies, and transport phenomena. Contributors work in chemistry, science and technology, and materials science around the world.
- QD478** 978-1-60021-567-4
Solid state chemistry research trends.
 Title main entry. Ed. by Ronald W. Buckley.
Nova Science Publishers, ©2007 236 p. \$116.10
 This volume collects examples of recent academic research from Asia and Europe in the field of solid-state chemistry. Papers present work on the preparation and photocatalytic property of zinc-oxide multiwall carbon nanotube composites, rare-earth complexes and applications in organic light emitting diodes, and nanodesign of combined micro- and mesoporous materials for specific applications in adsorption and catalysis. They also address dynamical heterogeneities in simulated liquid germanium oxide, microwave-assisted synthesis of layered double hydroxides, and nanotechnology applications of alkaline earth metal phosphonates.
- QD502** 978-90-6764-430-3
Chemical and biological kinetics; new horizons: In commemoration of Professor N.M. Emanuel's 90th anniversary; 2v.
 Title main entry. Ed. by E.B. Burlakova et al. Trans. by E. Yu Kharitonova.
VSP Publications, ©2005 1089 p. \$223.00
 Translated from the Russian, this two-volume work honors Nikolai M. Emanuel (1915-1984) whose scientific investigations have been carried on in the decades after his death by students and colleagues following the paths he illuminated. The 28 chapters in the first volume, on chemical kinetics, address such topics as heat stability of vinylchloride polymers subjected to intensive force, theoretical and applied aspects of chemistry of spatio-hindered phenols, reactions of ozone with aromatic compounds, and adhesion of microorganisms on materials surface. In the second volume, on biological kinetics, 23 contributions address peroxide oxidation of lipids in biological membranes and food additives, the influence of antioxidants on the signaling system of sphingomyelinic cycle and apoptosis, enzymes and their regulators in modern drugs, and antitumor effects of nitric oxides and NO-donors, among other topics. There is no index.
- QD502** 2006-052498 978-0-19-530100-7
Reaction mechanisms of inorganic and organometallic systems, 3d ed.
 Jordan, Robert B. (Topics in inorganic chemistry)
Oxford U. Press, ©2007 521 p. \$85.00
 This book evolved from the lecture notes of Jordan (chemistry, U. of Alberta, Canada) for a one-semester course given to senior undergraduates and graduate students on reaction mechanisms of inorganic and organometallic systems. Updated and expanded to cover the literature as of the end of 2005, it covers basic kinetic and mechanistic terminology and methodology, ligand substitution reactions, stereochemical change, reaction mechanism of organometallic systems, oxidation-reduction reactions, inorganic photochemistry, bioinorganic systems, and experimental methods. New to this edition is a chapter on kinetics in heterogeneous systems.

- QD505 978-3-527-31438-6
Catalysis from A to Z; a concise encyclopedia, 3d rev.ed.; 3v.
 Title main entry. Ed. by Boy Cornils et al.
Wiley-VCH, ©2007 1544 p. \$560.00
 Remarkably thorough, the third edition of this three-volume reference is half again as large as the second, with over 8000 entries contributed by over 260 scientists. The entries are brief descriptions with cross-referencing of terms noted (by asterisk) throughout. Each entry concludes with the French and German equivalent of the term and a list of references. Tables and chemical charts are included. Comprehensive coverage was sought to include all terms applying to biocatalysis, heterogeneous and homogeneous catalysis, analytical methods and techniques, and industrial processes, making this an invaluable resource for graduate students and researchers. As it is a dictionary, no further index is needed (or included). Though the majority of contributors are in Germany, there are several based elsewhere in Europe, in Japan, China, and in the U.S. The editors are with the Technical U. in Munich and the Ruhr U. in Bochum, Germany; and with the Scripps Research Institute in La Jolla, California.
- QD505 2006-020555 978-0-471-68026-0
New frontiers in asymmetric catalysis.
 Title main entry. Ed. by Koichi Mikami and Mark Lautens.
Wiley-Interscience, ©2007 418 p. \$100.00
 Researchers in pharmaceuticals and chemical companies and some universities describe some of the developments in asymmetric catalysis, which is becoming an important tool in drug discovery. Their topics include ligand design for oxidation, metathesis reaction, nonlinear effects, the asymmetric activation and deactivation of racemic catalysis, and chiral organic catalysis.
- QD506 2006-031517 978-1-57444-540-4
Wetting and spreading dynamics.
 Starov, Victor M. et al. (Surfactant science; 138)
CRC / Taylor & Francis, ©2007 515 p. \$179.95
 Presuming some knowledge of differential equations, thermodynamics, fluid mechanics, and transport phenomenon, Starov (Loughborough U., UK), Velarde (Instituto Pluridisciplinar, U. Complutense, Spain), and Radke (U. of California at Berkeley, US) introduce select topics related to wetting phenomenon, wherein water, oil, or some other liquid partially or completely wets solid or immiscible liquid surfaces. Over the course of five chapters they aim to show how the action of surface forces determines all equilibrium and kinetics features of liquids with solids and report on recent developments regarding the kinetics of spreading over porous solid substrates, including the case of hydrophobic substrates in the presences of surfactants.
- QD549 2007-002452 978-0-8493-7308-4
Giant micelles; properties and applications.
 Zana, Raoul and Eric W. Kaler. (Surfactant science series; 140)
CRC / Taylor & Francis, ©2007 554 p. \$199.95
 "Giant" micelles are long worm- or thread-like aggregates of surfactant molecules dispersed in a liquid colloid. In this volume, Zana (Institut Charles Sadron, France) and Kaler (U. of Delaware, US) present 18 chapters intended to summarize the state of the art in properties and applications of micelles. The chapters discuss the theoretical aspects of the formation of giant micelles from the perspectives of molecular thermodynamics, packing, and computer simulation; experimental topics such as transmission electron microscopy at cryogenic temperature, scattering methods, phase diagrams, linear and nonlinear rheology, relaxation, properties on solid surfaces, systems of smart micelles that respond to external stimuli by a change of shape, and formation form amphiphilic block copolymers; and applications of giant micelles in oil and gas production, drag reduction, and consumer products such as shampoos and drug delivery formulations.
- QD565 2007-011329 978-0-470-84294-2
An introduction to aqueous electrolyte solutions.
 Wright, Margaret Robson.
John Wiley & Sons, ©2007 574 p. \$75.00 (pa)
 Intended for chemistry majors, this textbook walks through equilibrium calculations for acid, bases, salts, and buffers; applies thermodynamics to electrolyte solutions; and develops theories of non-ideality and conductance. Worked examples illustrate how experimental data can be used to obtain fundamental electrochemical quantities. Wright taught at the Universities of Dundee and St. Andrews for forty years.
- QD569 978-3-527-31069-2
Electrochemistry, rev. 2d ed.
 Hamann, Carl H. et al
Wiley-VCH, ©2007 531 p. \$85.00
 Hamann (applied physical chemistry, U. of Oldenburg, Germany) et al. provide an introduction to modern electrochemistry, with emphasis on technical applications such as fuel cells, Li-ion batteries, super capacitors, and technical electrolysis. The book has new material on ab initio theories, modern approaches and techniques, and bioelectrochemistry. The chapter on mechanisms has been rewritten, and there are new sections on electro-polymerization and oscillating electrochemical reactions, as well as modern developments in membranes for cells and an introduction to room-temperature melts in the subsequent chapter. Others have been updated to reflect new technologies. The book is appropriate for those studying chemistry, chemical engineering, materials science, and physics.
- QD701 2007-010277 978-0-471-48571-1
Laser chemistry; spectroscopy, dynamics and applications.
 Telle, Helmet H. et al.
John Wiley & Sons, ©2007 502 p. \$90.00 (pa)
 Telle (laser physics, Swansea U., UK) et al. introduce the basic theory and concepts behind laser chemistry for final-year undergraduate students or graduate students of chemical physics, physical and analytical chemistry, photochemistry, and laser spectroscopy. Emphasizing basic science (rather than lengthy mathematical derivations) and focusing on molecular mechanisms, it also provides an overview of the experimental techniques and case studies on the topic. Examples detailed are in analytical chemistry, spectroscopy, reaction dynamics, cluster and surface reactions and environmental chemistry, with a section on applications in industry, environmental studies, biology, and medicine. Chapters cover the operation of lasers, key properties of laser radiation, features of various sources, and commonly used techniques, instrumentation, and data acquisition methods. Others describe principles of unimolecular and bimolecular reactions.
- QD878 2007-001274 978-0-470-85867-7
Core concepts in supramolecular chemistry and nanochemistry.
 Steed, Jonathan W. et al.
John Wiley & Sons, ©2007 307 p. \$50.00 (pa)
 Steed (Durham University), Turner (Monash University), and Wallace (University of Southern Mississippi) describe the host-guest chemistry of anions, cations, and neutral-guest species in solution, different types of chemical self-assembly, and supramolecular interactions within solid state systems. The last chapter of the graduate textbook introduces nanometer-scale synthesis and nanometer-scale materials, functional devices, switches, and sensor arrays.
- QD906 2006-017707 978-0-19-508871-7
Electron crystallography of biological macromolecules.
 Title main entry. Ed. by Robert M. Glaeser et al.
Oxford U. Press, ©2007 476 p. \$124.50
 Electron crystallography differs from electron microscopy in applying computational tools to obtain three-dimensional representations of a structure, rather than relying on more intuitive interpretations of one or more views of it. Five biochemists from various US university and government laboratories here assemble essential background material to help teachers, students, and potential users of the technology figure out where to start. Among their topics are Fourier optics and the role of diffraction in image formation, theoretical foundations, instrumentation and experimental techniques, data processing, high-resolution density maps and their structural interpretation, and icosahedral particles.

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- QD921 978-0-19-856777-6
Aperiodic crystals; from modulated phases to quasicrystals.
 Janssen, Ted et al. (International union of crystallography book series; 20)
Oxford U. Press, ©2007 466 p. \$150.00
 The discovery of quasicrystals spurred interest because they show sharp diffraction spots and a rotation symmetry that is not crystallographic in the sense of compatibility with lattice periodicity. Thus they are well ordered but aperiodic, meaning that standard techniques for the determination of their structures and physical properties, very often based on the presence of a Brillouin zone, are not applicable. New techniques were required for these determinations, spurring developments in chemistry, physics, crystallography, and even mathematics. In this work aimed at materials scientists, physicists, and crystallographers, Janssen (theoretical physics, U. of Nijmegen, the Netherlands), Chapuis (physics, Ecole Polytechnique Fédérale de Lausanne, France), and Boissieu (Laboratoire de Thermodynamique et Physico Chimie Métallurgique, France) provide a unified view of this now mature field, with applications in quasicrystals and modulated phases, assuming only a basic knowledge of solid state physics and crystallography.
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- GEOLOGY**
- QE38 2007-060503 978-0-8493-3146-6
Geological and soil evidence; forensic applications.
 Pye, Kenneth.
CRC / Taylor & Francis, ©2007 335 p. \$99.95
 A consultant and expert witness in forensic geology, Pye introduces the nature and properties of geological and soil materials that may be used as trace evidence, the techniques that may be used to analyze them, and the ways in which the significance of the results can be evaluated. He writes for law enforcement professionals with little or no science background, and for academic scientists whose only knowledge of law enforcement is from that party back in undergraduate days that got a little out of hand.
- QE38 2007-920035 978-0-495-11305-8
Geology and the environment, 5th ed.
 Pipkin, Bernard W. et al.
Brooks/Cole Publishing, ©2008 505 p. \$121.95 (pa)
 Featuring full-color maps, diagrams, and photographic illustrations throughout, this textbook helps readers understand the relationship between humans and their geologic environment. It is designed for a one-semester college course for students with little or no background in science. Fifteen chapters cover such topics as plate tectonics, volcanoes, fresh-water resources, desertification, and waste management.
- QE78 2006-046809 978-0-8137-0008-3
Excursions in geology and history; field trips in the middle Atlantic states.
 Title main entry. Ed. by Frank J. Pazzaglia. (Field guide; 8)
Geological Society of America, ©2006 247 p. \$40.00 (pa)
 From the Society's 2006 annual meeting in Philadelphia, 13 papers and accompanying field guides set out expeditions suitable for geology classes in the region. Among their topics are the geology of the Gettysburg battlefield, Rodinian collisional and escape tectonics in New York's Hudson Highlands, the tectonic history of the Blue Ridge in north-central Virginia, and a bicycle tour of the geology and hydrology of Philadelphia. There is no index.
- QE100 2006-102920 1-4200-4558-X
The geology of the Everglades and adjacent areas. (DVD-ROM included)
 Petuch, Edward J. and Charles E. Roberts. Photography by Mardie Drolshagen Banks.
CRC / Taylor & Francis, ©2007 212 p. \$119.95
 The unrelenting commercial and urban development of the subtropical wetland in Florida has one small benefit, say Petuch and Roberts (both geosciences, Florida Atlantic U.): evidence about the geological history of the Everglades is brought to light very briefly before it is destroyed. They take advantage of that glimpse to describe the geology from the late Paleogene to the Holocene. The accompanying disk contains animated maps and simulated space shuttle imagery depicting changes in Florida over the period.
- QE138 2007-061015 978-0-8137-1199-7
The geology and climatology of Yucca mountain and vicinity, southern Nevada and California.
 Title main entry. Ed. by John S. Stuckless and Robert A. Levich. (Memoir; 199)
Geological Society of America, ©2007 205 p. \$65.00
 As part of the preparations for a very controversial long-term disposal site for high-level nuclear waste, the US Department of Energy began developing the Yucca Mountain Site Description in 1996. The Description discusses the current understanding of the past, present, and future geology and climatology of the area. That information is here summarized, though in a form very different from the original report. Readers are expected to be familiar with concepts and terminology of climatology and geology. There is no index. A second volume will look at the hydrology and geo-chemistry.
- QE340 978-1-877058-44-8
Ancient Australian landscapes
 Twidale, C. R.
Rosenberg Publishing, ©2007 144 p. \$39.95 (pa)
 Twidale (earth and environmental sciences, geology and geophysics, U. of Adelaide, Australia, and U. of Coruña, Spain) examines the Australian landscape, beginning with theories about the age of land surfaces and types of methods for dating them. He then discusses the evidence for the antiquity of land in different parts of Australia and includes brief biographies of early individuals involved in the investigation and interpretation of them. Factors conducive to the survival of these surfaces and the argument for increased relief amplitude are also outlined. Many photos and diagrams are incorporated. Distributed in the US by ISBS.
- QE364 2006-012981 0-7643-2544-2
The world of fluorescent minerals.
 Schneider, Stuart.
Schiffer Publishing Ltd., ©2006 192 p. \$29.95 (pa)
 This survey of different fluorescent minerals found around the world is meant for collectors and general readers. It includes many color photos showing what they look like in daylight and under an ultraviolet lamp. Schneider aims to incorporate worldwide minerals while still emphasizing the importance of New Jersey's environment, which has more minerals than any other comparable place in the world. He provides information on specific types and how to find them, followed by a lengthy gallery of minerals in Franklin Mine, Sterling Mine, and the rest of New Jersey; different parts of the US; Canada; Mexico; and other countries. A value guide is included. Schneider is a writer, attorney, and fluorescent mineral collector, as well as a former professional photographer.
- QE633 2006-045181 978-0-8137-2409-6
Postcollisional tectonics and magmatism in the Mediterranean region and Asia.
 Title main entry. Ed. by Yildirim Dilek and Spyros Pavlides. (Special paper; 409)
Geological Society of America, ©2006 644 p. \$185.00 (pa)
 Papers from an April 2004 symposium shed light on the collisional and postcollisional geology and geodynamics of the Mediterranean region and Asia, and give insight on how to handle the natural hazards associated with active plate boundary processes. The book will be of interest to structural geologists, geochemists, petrologists, geophysicists, and geomorphologists. Topics discussed include unique features of the Cenozoic igneous rocks of Greece, paleomagnetic analysis of neotectonic deformation in the Anatolian accretionary collage, slab break-off and syncollisional origin of the Late Cretaceous magmatism in the Central Anatolian crystalline complex, and tectonic control on mud volcanoes and fluid seeps in the Anaximander Mountains. Dilek is affiliated with the Department of Geology at Miami University. Pavlides is affiliated with the Aristotle University of Thessaloniki, Greece.

Optical dating of quartz from young deposits; from single-aliquot to single-grain; proefschrift.

Ballarini, Mirko.

IOS Press, ©2006

146 p. \$40.00 (pa)

Ballarini (physics, Delft Technical U.), whose text includes a hilarious page spoofing a certain well-known film about a galaxy far, far away, redeems himself completely by developing a robust protocol for optical dating of individual grains from young quartz samples, testing it on two young aeolian sampled that were well and poorly bleached before deposition and on a few others dating from an archeological site dating to 180-200 AD. He describes optical dating of young coastal dunes on a decadal time scale, optical dating using single grains of quartz, spatial variations of does rates from beta sources as measured with single grains, optimization of detection filters for single-grain optical dating, a modified protocol for optical dating of individual grains, an analysis of equivalent does distributions for single grains of quartz from modern deposits and optical dating of fluvial deposits with age control provided by artifacts.

BIOLOGY

QH31 2007-060392 978-0-06-089782-6

Last stand; George Bird Grinnell, the battle to save the buffalo, and the birth of the new West.

Punke, Michael.

Harper Collins Publishers, ©2007

286 p. \$25.95

When George Bird Grinnell (1849-1938) died, his *New York Times* obituary dubbed him the "father of American conservation." In this biography, Punke (history correspondent for *Montana Quarterly*) describes the scientific career of Grinnell as he became advocate for conservation in the American West, including his advocacy on behalf of the nearly extinct American buffalo, his role in establishing Glacier National Park, his organizing on behalf of the first Audubon Society, and his founding (with Theodore Roosevelt) of the conservationist Boone and Crockett Club.

QH31 2005-007627 0-295-98707-3

Wilderness forever; Howard Zahniser and the path to the Wilderness Act.

Harvey, Mark. (Weyerhaeuser environmental books)

U. of Washington Press, ©2007

325 p. \$24.95 (pa)

Harvey (history, North Dakota State University, Fargo), presents a biography of Zahniser (1906-64), the author and chief Washington promoter of the 1964 US Wilderness Act, which now covers over 100 million acres in the National Wilderness Preservation System.

QH44 2007-008895 0-88135-393-0

Linnaeus in Italy; the spread of a revolution in science.

Title main entry. Ed. by Marco Beretta and Alessandro Tosi. (Uppsala studies in history of science; 34)

Science History Pubns., ©2007

340 p. \$60.00

Carl von Linné, better known as Linnaeus, is the one to thank/ blame for the binomial Latin names of plants and animals. In time for the 300th anniversary of his birth, this volume represents the proceedings of a 2006 symposium organized by the Museum of the History of Science in Florence and U. of Pisa, with which Beretta (history of science) and Tosi (art history) are affiliated. Twenty studies trace how the Swedish Protestant botanist revolutionized the natural sciences, and the reactions of scientists—some shocked by his classification of plants by sexual characteristics—to his taxonomic system in the context of largely Catholic scientific circles of 18th century Europe. Art by and of Linnaeus is included. Science History Publications USA is a division of Watson Publishing International.

QH75 2005-029758 0-19-856771-5

Conservation education and outreach techniques.

Jacobson, Susan Kay et al.

Oxford U. Press, ©2006

480 p. \$54.50 (pa)

Jacobson et al. present techniques for creating effective education and outreach programs for conservation. They present a framework for designing programs and theoretical and practical background, and techniques for classrooms and the enhancement of school resources; marketing conservation messages; using mass media, technology, arts, and hands-on experience; and developing on-site programs for natural areas, parks, and community centers. Planning, implementation, and evaluation processes are described for each. The book is intended for conservation scientists, resource managers, environmental educators, students, citizen activists, and natural resource and environmental professionals.

Introduction to modelling in wildlife and resource conservation. (CD-ROM included)

Owen-Smith, Norman.

Blackwell Publishing, ©2007

332 p. \$54.95 (pa)

Owen-Smith (African ecology, U. of the Witwatersrand, South Africa) has developed a textbook from his graduate course for conservation biologists who have little or no prior experience in modeling. His emphasis is not on the mathematical formulae, but on the fundamentals of using computers to explore, understand, and contribute to solving applied problems in wildlife conservation and resource management. He shows how dynamic equations generate patterns of change over time, subject to various influences, that can be viewed and comprehended in graphical output. The disk contains a trial version of the True BASIC programming language and an introduction to it.

QH76 2006-030330 978-0-87081-852-3

Pioneering conservation in Alaska.

Ross, Ken.

U. Press of Colorado, ©2006

540 p. \$34.95

In this companion volume to his *Environmental Conflict in Alaska*, Ross (political science, Adrian College, Michigan) chronicles exploration in Alaska since 1700 and sheds light on the three ideological camps that emerged with the arrival of non-native fur traders, whalers, mountaineers, and oil seekers: exploitation, utilitarian conservation, and preservation. Ross illuminates the efforts of pre-statehood environmentalists such as Charles Sheldon and John Muir, which, through the creation of national parks and protective legislation, preserved wildlife and wilderness in Alaska during a heyday of environmental exploitation. Ross's history concludes with the post-statehood legacy of these figures, including the 1980 Alaska National Interest Lands Conservation Act.

QH81 2006-029208 978-0-393-06498-8

The richness of life; the essential Stephen Jay Gould.

Gould, Stephen Jay.

W.W. Norton, ©2007

653 p. \$35.00

Gould's defense of evolution, which he dared to say really did have an element of chance to it, resulted in 20 books and hundreds of articles, along with accolades from his peers and awards from supporters and even the US Congress. His 30-year career teaching biology, geology and the history of science at Harvard was punctuated by his trenchant but always witty writing. This collection includes some of his 300 papers for *Natural Science* and selections from his books, including comments on baseball from his autobiography; biographies of everyone from Burnet to Marx; his considerable contributions to evolutionary theory; his work on size and scaling in human evolution; pieces on sociobiology, evolutionary psychology, and racism; and his often amusing takes on religion.

QH88 2007-010917 1-55963-969-5

A guide for desert and dryland restoration; new hope for arid lands.

Bainbridge, David A. (The science and practice of ecological restoration)

Island Press, ©2007

391 p. \$50.00 (pa)

Bainbridge, an earth scientist and ecologist who teaches sustainable management at Alliant U., details strategies and techniques for desert restoration for those working in arid lands, such as restoration practitioners, land managers, farmers, ranchers, educators, gardeners, landscapers, homeowners, and foresters. His research was mostly done in the deserts of the US southwest, but the strategies can be applied to deserts and drylands around the world. After introducing the ecology of desert plants in southwestern North America, he explores the causes of desertification and land abuse, and outlines the processes and procedures needed to evaluate sites and plan, implement, and monitor desert restoration projects. These include soil salvage and restoration; seed collection, storage, and management; container plant production and planting; direct seeding, water management and irrigation; riparian restoration; and monitoring. B&w photos and illustrations are incorporated.

QH104 2006-031784 0-87961-264-9

Pacific coastal wildlife region; commonly seen plants and animals, 2007 rev. ed.

Yocom, Charles and Raymond Dasmann.

Naturegraph Publishers, ©2007

143 p. \$12.95 (pa)

In this update of the 1965 field guide, wildlife enthusiasts (who formerly taught at Humboldt State U., Arcata, California) describe the diverse habitats (from the northern California coast and redwood forests to the Olympic temperate rainforest and southwestern British Columbia), plants, and wildlife still encountered in the Pacific coastal region. The book includes b&w illustrations by Elizabeth Dasmann, b&w photographs, summary lists and charts, and suggested reading.

QH104 2006-035777 1-55566-395-8
Redrock almanac; canyon country vignettes.

Engelhard, Michael.
Johnson Books, ©2007 114 p. \$21.00 (pa)
Color photos and descriptions of the geology and weather, plants, animals, people, and places of the Colorado Plateau make up this book, providing a "glimpse," as Engelhard calls it, into the character of the landscape. Each one-page description is accompanied by a vivid photo of aspens, sand dunes, the mountain lion, waterfalls, and cliff dwellings, for instance. There is no index. Engelhard is a wilderness guide and the author of *Where the Rain Children Sleep*.

QH104 978-1-905119-12-7
Water meadows; history, ecology and conservation.

Title main entry. Ed. by Hadrian Cook and Tom Williamson.
Windgather Press, ©2007 151 p. \$39.95 (pa)
They are not swamps or mud flats; neither are they entirely the result of nature. Practitioner Cook, Williamson (landscape history, U. of East Anglia) and their contributors describe the elaborate workings of the English water meadow, a plot of land which farmers flooded periodically to stimulate the growth of grass and improve the summer hay crop. Although they were a feature of southern English agriculture between 1600 and 1900 few working examples now exist. Contributors show evidence of how "floating" and "drowning" worked with nature to produce higher yields, explain how that evidence makes it clear water meadows were a part of farming for much longer than we assumed, and give ways the practice is still applicable and in fact could be important to sustainable agriculture. Includes period maps and illustrations, photographs, and applications to modern agriculture. Distributed in North America by The David Brown Book Co.

QH105 2006-019466 978-0-87081-849-3
The nature of southwestern Colorado; recognizing human legacies and restoring natural places.

Paulson, Deborah D. and William L. Baker.
U. Press of Colorado, ©2006 386 p. \$29.95 (pa)
Paulson and Baker (geography and ecology, U. of Wyoming) describe the land of Southwestern Colorado, with specific discussion of the ecology of six subregions. They discuss what is known about Native American influences on the environment and the biotic communities of low-elevation grasslands, sagebrush, pinyon-juniper woodlands, and semi-desert shrublands ecosystems. Mixed mountain shrublands, ponderosa pine forest, subalpine grasslands and forests, and riparian ecosystems are also covered, with a consideration of the interrelationship between them in the San Miguel watershed. They focus on the ecology of plant communities and consider some of their animal members. Past and present human influences are discussed, as well as attempts to restore the areas. Photos are included. The book is not a field guide, but some information on identifying key plants is presented.

QH307 2006-100624 978-0-86587-421-3
Biology for non-biologists.

Spellman, Frank R.
Government Institutes Inc., ©2007 283 p. \$85.00 (pa)
Spellman (environmental health, Old Dominion University) provides professionals and students in environmental and occupational safety and health with an overview of concepts and practices in modern biology. Writing in plain language, the author explains scientific principles with little reference to mathematics and physical science. The book focuses on environmental biology and ecology as they apply to environmental regulatory compliance programs, human biology, and community and ecosystem dynamics. It also covers all major biological themes, including the cellular basis for life, the interactions of organisms, and the evolutionary process. Study aids include key terms, key points, and chapter review questions.

QH313 2006-038357 978-0-470-02496-6
Molecular forensics.

Title main entry. Ed. by Ralph Rapley and David Whitehouse.
John Wiley & Sons, ©2007 244 p. \$75.00 (pa)
The concept of molecular forensics has already led to some interesting television dialog, along with a significant number of landmark cases. The contributors of these articles cover techniques and methods of molecular analysis, along with the use of the results in court. However, this book doesn't merely step from crime scene to laboratory, but takes on such issues as proposals for national DNA databases and non-human uses and potential statistical pitfalls. Topics include current and future trends, basic tools and techniques, automated DNA extraction techniques, real-time quantifiers, DNA typing analysis, applications in forensic casework, the X and Y chromosomes, mitochondrial analysis, laser microdissection, statistical presentation, laboratory information systems for DNA analysis, protein profiling, and the use of magnetic resonance spectroscopy.

QH323 2007-061485 978-1-58488-652-5
Introduction to statistics for biology, 3d ed. (CD-ROM included)

McCleery, Robin et al.
Chapman & Hall/CRC, ©2007 273 p. \$59.95 (pa)
In this text meant for students and researchers, McCleery (Edward Grey Institute of Field Ornithology, U. of Oxford, UK) et al. describe the design and analysis of experiments and surveys in biology, with an emphasis on relying on computers. In this edition, some chapters have been expanded, more details on elementary probability and hypothesis testing are provided, and a new general template for statistical tests is shown. New worked examples and updated Minitab analyses and graphics are presented. Many of the exercises have been replaced with worded examples, and there is an emphasis on experimental design and simulating data prior to carrying out an experiment. The chapter on data from an observational study has been omitted. The CD-ROM contains a free trial version of Minitab. The book was previously titled *Introductory Statistics for Biology Students*.

QH324 2006-015414 1-58829-377-7
Cryopreservation and freeze-drying protocols, 2d ed.

Title main entry. Ed. by John G. Day and Glyn N. Stacey. (Methods in molecular biology; 368)
Humana Press Inc., ©347 347 p. \$99.00
This compilation of new research on one of the most important and frustrating aspects of research in this field has been completely updated and features notes for each protocol, methods for conservation and sustainable use of resources, methods for lyophilization of proteins, and new and new techniques for preserving biological materials. Its 23 articles range from the freeze-drying of yeast cultures and other materials to the cryopreservation of bird or fish sperm right up to the preservation of mammalian oocytes, semen and embryos. Each of the articles includes well-chosen lists of resources and further reading, and the collection includes a glossary of specialized terms.

QH324 2005-930249 1-58603-539-8
Essays in bioinformatics.

Title main entry. Ed. by David S. Moss et al. (NATO science series, series I, Life and behavioural sciences; v.368)
IOS Press, ©2005 251 p. \$126.00
The course was held in Dubrovnik, Croatia in May 2003. The chapters were written by the lecturers at the course, or by people they recommended. The goal is to offer a broad overview of informatics in the biological sciences from historical, theoretical, and practical perspectives. Among the topics are concepts of similarity in bioinformatics, predicting and visualizing DNA structural properties from sequence, and comparing 20 common prediction algorithms using a neural network to predict protein secondary structure. The students' evaluations of the course are appended. Only the authors are indexed.

- QH324 2007-000973 978-1-58488-640-2
Optimal control applied to biological models.
 Lenhart, Suzanne and John T. Workman. (Mathematical and computational biology; 15)
Chapman & Hall/CRC, ©2007 261 p. \$89.95
 The chapters introduce the mathematical aspects of optimal control theory, and the laboratory exercises demonstrate its application to biological models such as bacteria, cancer, bear populations, and invasive plant species. The textbook is for a one-semester advanced undergraduate or beginning graduate course. Students are assumed to have a basic knowledge of multi-variate calculus, simple ordinary differential equations, and mathematical models and how they are used.
- QH366 2007-010767 978-0-87969-684-9
Evolution.
 Title main entry. Ed. by Nicholas H. Barton et al.
Cold Spring Harbor Lab., ©2007 833 p. \$100.00
 In this text for undergraduate courses in evolution, Barton (evolutionary genetics, University of Edinburgh) integrates concepts from molecular biology, genomics, and human genetics with traditional studies of evolutionary processes. The first section of the text offers an overview and history of evolutionary biology. Three more sections cover the origin and diversification of life, evolutionary processes, and human evolution. Chapters found only a companion web site deal with techniques and models used in studying evolutionary biology. While the lively art program offers color photos, illustrations, and diagrams on every page, pedagogical features are limited to chapter and within-chapter summaries. Designed as a text for undergraduates, the book may also be of interest to biologists seeking a current account of evolutionary theory and mechanisms.
- QH367 2007-019406 978-0-87893-310-5
Phylogenetic trees made easy; a how-to manual, 3d ed.
 Hall, Barry G.
Sinauer Associates, ©2008 233 p. \$39.95 (pa)
 This update of the 2004-06 edition incorporates improved software —to run on Mac, Unix/Linux, and Windows platforms—for creating phylogenetic trees from protein or nucleic acid sequence data to understand biological processes. In a cookbook approach with ample visual aids for beginners, Hall (emeritus, U. of Rochester/Bellingham Research Institute) introduces all phases of the process from installing the featured MEGA software to detecting positive evolutionary selection of amino acids. Other major phylogenetic computer programs are also covered. Instead of a CD-ROM that came with the last iteration, a companion website offers downloadable files to be used with the text.
- QH390 2006-023079 978-0-19-530675-0
Darwinian detectives; revealing the natural history of genes and genomes.
 Johnson, Norman A.
Oxford U. Press, ©2007 220 p. \$28.00
 Writing with general readers in mind, Johnson (organismic and evolutionary biology, U. of Massachusetts) describes how evolutionary biologists use the tools of molecular genetics to decipher the natural histories of genes and genomes. He aims to present the thought processes scientists use and facilitate the public's understanding of evolutionary biology. He details why evolution is the central organizing principle of biology and important to study, and why Intelligent Design creationism is not a science or alternative to evolution, along with discussion of the Discovery Institute in Seattle. He discusses natural selection, how scientists find the footprints of selection on genes, tracking genetic changes to reveal details about evolutionary history, and data showing that humans' closest relatives are the chimpanzee and bonobo. Later chapters explore positive selection and linguistic and genetic variation.
- QH390 2007-000012 978-0-87893-484-3
The origins of genome architecture.
 Lynch, Michael.
Sinauer Associates, ©2007 494 p. \$59.95
 Focusing on how and why the architectural diversity of prokaryotic and eukaryotic genomes came to be, Lynch (Indiana University) synthesizes the current understanding of genomic evolution from the standpoint of both population genetics and molecular biology, and outlines the major challenges in the transformation of the field of comparative genomics. Noting that most aspects of evolution at the genomic level can't be explained by natural selection, he explores the role of nonadaptive forces such as mutation, recombination, and random genetic drift. Some areas discussed include the significance of population size, mobile genetic elements, genomic expansion by gene duplication, and expansion and contraction of organelle genomes. A glossary is included. The book is for advanced students and researchers.
- QH428 2007-003661 978-0-313-33449-8
The gene; a historical perspective.
 Everson, Ted. (Greenwood guides to great ideas in science)
Greenwood Press, ©2007 188 p. \$65.00
 Everson (biotechnology studies, Center for Contemporary History and Policy, Chemical Heritage Foundation) explores the historical development of scientific ideas associated with the gene. He describes the origins of genetics from ancient Greece onward, important scientific events, and those who contributed to scientific understanding, such as Darwin, Mendel, and August Weismann. Modern genetics during the twentieth century is the primary focus, with discussion of the contributions of Thomas Hunt Morgan and Watson and Crick, molecular biology, social issues and biology, the understanding of DNA, the Human Genome Project, modern debates, and ethical issues. The series aims to make concepts accessible to high school and college students and general readers.
- QH431 2007-004421 978-0-7360-6343-2
Genetics primer for exercise science and health.
 Roth, Stephen M. (Primers for exercise science series)
Human Kinetics Pub., ©2007 177 p. \$39.00 (pa)
 For students and professionals who are unfamiliar with the topic, Roth (kinesiology, U. of Maryland) outlines basic concepts of genetics in relation to human health, physical activity, and sport. The introductory textbook details basic information on the role of genetics in exercise science and health, how to interpret research findings, and incorporating genetics into research programs. He describes the basics and advanced details in DNA and genetics, skills and strategies for applying and interpreting genetics in research, including study design and lab methods, and the use of genetics in exercise science and health, such as the effects of variation, clinical practice, and ethics and the misuse of technologies.
- QH431 2006-044532 1-4128-0596-1
On genetic interests; family, ethnicity, and humanity in an age of mass migration, rev. ed.
 Salter, Frank.
Transaction Publishers, ©2007 388 p. \$34.95 (pa)
 Political scientist Salter, affiliated with the Max Planck Society in Andechs, Germany, considers the question of how humans maximize the survival chances of their genes in the modern world. Ethnic groups are kinship groups, he says, and he considers genetic continuity as it is influenced by the "fate of one's ethnic group." He examines ethnic behavior, arguing that the nation state is an ethnic strategy for defending genetic interests, and he concludes with a discussion of whether it is moral to advance one's genetic interests at the cost of other interests. The work was originally published in 2003; this edition contains a new introduction.
- QH434 978-1-904455-14-1
Bacteriophage; genetics and molecular biology.
 Title main entry. Ed. by Stephen Mc Garth and Douwe van Sinderen.
Caister Academic Press, ©2007 343 p. \$300.00
 Scientists in a wide range of medical and biological disciplines, from universities and companies around the world review the understanding of bacterial viruses, or bacteriophages, as it is informed by recent insights from genomics. They consider bioinformatics and genomics, food fermentations, medicine, the Western perspective, host interaction in lactic acid bacteria, the transfer of DNA from phage to host, prophages and their contributions to host cell phenotype, the release of progeny phages from infected cells, and other topics.
- QH434 2007-011460 978-1-55581-451-9
Bacterial pathogenomics.
 Title main entry. Ed. by Mark J. Pallen et al.
ASM Press, ©2007 453 p. \$139.95
 Sixteen chapters, presented by Pallen (U. of Birmingham, UK), Nelson (Howard U., US), and Preston (Oxford U., UK) describe recent research devoted to the application of bacterial genome sequencing for understanding bacterial pathogen evolution together with their role in human and animal disease. Some of the chapter focus on advances in knowledge of key taxonomic groups of pathogens, including *E. coli*, mycobacteria, *Neisseria*, staphylococci, spirochetes, and *Campylobacter*. Others examine issues that cut across taxonomic categories, such as evolutionary patterns and paces in bacterial mutualists and parasites, modeling microbial virulence, pathogenomics of bacterial biothreat agents, the impact of phages on the evolution of bacterial pathogenicity, bacterial cell wall biosynthesis, and intracellular pathogens.

QH434 2006-101363 978-1-55581-399-4
Molecular genetics of bacteria, 3d ed.
Snyder, Larry and Wendy Champness.
ASM Press, ©2007 735 p. \$109.95

This text for advanced undergraduate and graduate-level courses offers an approach centered on the most-studied bacteria, *Escheria coli* and *Bacillus subtilis*; other bacteria of medical, ecological, or biotechnological significance are covered as well. Coverage includes background, experimental methods, examples of genetic analyses, and advanced material relevant to current applications. Although updated in many respects, this edition retains the organization of previous editions: each chapter contains a summary of main points, descriptions of experiments, a set of discussion questions, a problem set (answers at the back of the book), and suggested readings. Snyder and Champness are affiliated with Michigan State U.

QH437 2007-014304 978-0-313-33381-1
Genetics 101.
Windelspecht, Michael. (Science 101)
Greenwood Press, ©2007 195 p. \$49.95

In this volume meant for students and general readers, Windelspecht (biology, Appalachian State U.) discusses genetics, explaining how scientists determined that traits are coded by the gene. It is meant as a reference source for general information on genetics for those who are not scientists and is therefore, not comprehensive. He begins with a history of genetics before the nineteenth century, details how scientists determined that DNA contains genes, and describes genetic structure. How the gene is studied, molecular genetics, and cloning are discussed in subsequent chapters, followed by mutation and chromosomal abnormalities and recent developments such as gene manipulation and therapy, RNA interference, DNA typing, and work with stem cells.

QH442 2006-017634 1-58829-558-3
In vitro transcription and translation protocols, 2d ed.
Title main entry. Ed. by Guido Grandi. (Methods in molecular biology; v.375)
Humana Press Inc., ©2007 276 p. \$99.00

Since the 1995 first edition, the technology of test-tube transcription and translation—used to study protein synthesis and function—has improved to the point that it can be adapted to high-throughput screening formats, and can compete with *in vivo* expression systems for preparative purposes. Contributors from a wide range of biomedical disciplines describe new protocols and survey specific applications.

QH442 2006-023199 978-0-8018-8524-2
Reprogenetics; law, policy, and ethical issues.
Title main entry. Ed. by Lori P. Knowles and Gregory E. Kaebnick.
Johns Hopkins U. Press, ©2007 302 p. \$50.00

Defining reprogenetics as all interventions involved in the creation, use, manipulation, and storage of gametes and embryos excepting fetuses/embryos inside the mother's body, bioethicists Knowles (U. of Alberta Health Law Institute) and Kaebnick (The Hastings Center, Garrison, New York) contribute a balanced counterpoint to the generally ill-informed U.S. public debate and policy and regulatory void. North American contributors to a dozen chapters examine the historical context for these debates, how policymakers create support for these ethically controversial decisions as reproductive and genetic medicine converge, other countries' governance of reproductive technologies, and suggested approaches to treating these issues in the U.S. One chapter was originally published in a *Hastings Center Report* (2003).

QH442 2006-034192 978-0-415-37464-4
Working with DNA.
Metzenberg, Stan. (The basics series)
Taylor & Francis, ©2007 414 p. \$59.95 (pa)

This introduction to the methods and materials used in the recombinant DNA laboratory is designed for novices in the field, but may also stimulate "forward thinking" in experienced researchers. Following an overview of working with samples *in vitro* for genetic engineering or diagnostic purposes, Metzenberg (California State U., Northridge) explains specific cloning techniques in general terms rather than providing step-by-step protocols. He emphasizes safety, documentation, and learning from failed experiments. Chapters include molecular research problems with a solutions key, and further reading.

QH462 2006-019843 978-1-60021-320-5
New research on genomic instability.
Title main entry. Ed. by Eleanor J. Goscow.
Nova Biomedical Books, ©2007 302 p. \$129.00

Many cancer biologists now believe that genomic instability not only initiates carcinogenesis, but also allows the tumor cell to become metastatic and evade drug toxicity. This collection presents current work in this area of cancer research, by contributors in the US, Germany, the Slovak Republic, Australia, Croatia, Japan, and Georgia. Topics covered include spontaneous and induced chromosomal instability in patients with carcinoma of cervix uteri, genomic instability of the APC gene found in glioblastoma, radiation hormesis and the control of genomic instability, how a cell defends itself against genomic instability caused by chromium, and genotoxic stress and apoptosis. Information on the editor is not provided.

QH505 79-188446 978-0-8243-1836-9
Annual review of biophysics and biomolecular structure; v.36, 2007.
Title main entry. Ed. by Douglas C. Rees et al.
Annual Reviews, ©2007 507 p. \$197.00

This year's edition includes over 20 reports on significant research and indices for authors and chapter titles for volumes 32-36 as well as a list of related articles from previous volumes. Topics include design with directed evolution for synthetic gene circuits, calculations of protein-ligand binding affinities, an analysis of heterogeneity in single-particle electron microscopy reconstruction, phase boundaries and biological membranes, DNA/protein interactions to gene expressions, bilayer thickness and membrane protein function, novel variations on fluorescence correlation spectroscopy, structure mechanisms of ubiquitin-like proteins, high-definition single-cell measurements of biomolecular automation, deciphering molecular interactions, the physics of proteins, crystallographic studies in RNA and DNA, x-ray scattering, predictive modeling of RNA expression, new tools for watching nanometer-scale changes in single molecules, protein folding, inherent variability in gene expression, DNA transport through pores and the regulation of actin filament assembly.

QH506 2006-032495 978-0-471-77796-0
Knowledge discovery in bioinformatics; techniques, methods, and applications.
Title main entry. Ed. by Xiaohua Hu and Yi Pan.
Wiley-Interscience, ©2007 363 p. \$100.00

Contributors from the biological and information sciences discuss current research topics and methodology in data mining for bioinformatics in order to encourage other researchers to make their own discoveries. The topics include RNA protein structure analysis, DNA computing, sequence mapping, genome comparisons, gene expression data mining, metabolic network modeling, and biomedical literature data mining.

QH506 2006-939958 978-1-58829-665-8
Molecular motors; methods and protocols.
Title main entry. Ed. by Ann O. Sperry. (Methods in molecular biology; 392)
Humana Press Inc., ©2007 247 p. \$99.50

Sperry (Department of Anatomy and Cell Biology, East Carolina University School of Medicine) presents protocols exploiting the functional and structural diversity of molecular motor proteins, the proteins which produce energy for movement in cellular processes. The protocols detail methods relevant to each of the three molecular motor protein superfamilies (kinesins, dyneins, and myosins), as well as motors that fall outside of these families (dynamins and F1ATPase). Protocols include step-by-step instructions lists of materials, and detailed notes. The book will be useful for cell biologists examining the function of motor proteins in a range of model organisms using both *in vitro* and *in vivo* techniques. The book will also prove useful for biochemists and molecular biologists.

QH541 2006-102268 978-0-415-33290-3
Biodiversity databases; techniques, politics, and applications

Title main entry. Ed. by Gordon B. Curry and Chris J. Humphries. (The Systematics Association special volume series; 73)
CRC / Taylor & Francis, ©2007 193 p. \$89.95

The days of the home-grown biodiversity database with a single rapid grad student maintaining it are over. Projects now use state-of-the-art file storage systems, presentation software and the capabilities needed for distribution over the Internet. This collection of articles addresses the many new features of the types of databases now in service and make cases for even more improvements. They focus on best practices and applications as they describe concepts and installations, including the Global Biodiversity Information Facility, the European Network for Biodiversity Information, networking taxonomic concepts flexibly, networking European biological collections databases, automated extraction of biodiversity information from taxonomic descriptions, using the grid in biodiversity informatics, an interactive database system for structured descriptive data of ascomycetes, linking and merging databases, and applications to such practical projects as rattan conservation in Borneo.

QH541 978-0-19-856871-1
The biology of mangroves and seagrasses.

Hogarth, Peter. (The biology of habitats series)
Oxford U. Press, ©2007 273 p. \$54.95 (pa)

Mangroves, woody trees and shrubs that exist on sodden ground upon which varying depths of water rise and fall, not only reduce erosion but provide habitat for a wide range of flora and fauna. Their service as protectors of soil and shoreline, along with the similar duties of sea grasses, makes them economically valuable as well as integral to the promotion of biodiversity. Hogarth (biology, U. of York) eloquently describes the richness of the mangrove and sea grass worlds, including the communities' structure and dynamics, their terrestrial and marine components, means of measuring and modeling, comparison and connections between and among related organisms, and their impact on how we live as we and they deal with global warming. The result is robust but accessible, and Hogarth includes fascinating insights into such phenomena as "farming" sea cows and the dreaded tree-climbing shrimp.

QH541 2006-389243 978-0-643-06834-6
Ecohydrology; vegetation function, water and resource management.

Eamus, Derek et al.
CSIRO, ©2006 348 p. \$108.00

Water management is a far-reaching study unto itself, but add in the relationship it has with plants and the complexity increases logarithmically. Working on behalf of sustainable water management in Australia but keeping in mind the needs of other complicated landscapes, the authors describe the interactions amongst the woody components of vegetation, rainfall and changes in groundwater availability. They describe the delicate balance in Australia between water and vegetation resources, water relations of plants, basics of hydrology, techniques in ecohydrology, hydrological models, groundwater-dependent ecosystems in Australia, policy and guidelines for managing water in relation to ecological health in Australia, and by way of comparison, integrated water resource management in South Africa. Distributed in the US by Antipodes Books and Beyond.

QH541 2006-023094 1-60021-372-3
Focus on biodiversity research.

Title main entry. Ed. by Jan Schwartz.
Nova Science Publishers, ©2007 320 p. \$129.00

Nine essays are presented in this volume, which focuses on biodiversity research. Topics discussed are conservation in agricultural, forestry, and marine systems, and climate change, as well as specific studies of drug discovery, conservation, and economic development in a national park in Vietnam, and Hispaniolan spider biodiversity. Also covered: the structure of biodiversity; spontaneous pattern formation and diversity in spatially structured evolutionary ecology; Brazilian plant species as sources of chemotherapeutics; species turnover; and the origin and functions of biodiversity in infectious and non-infectious diseases. Contributors are scholars at universities around the world.

QH541 2006-103198 978-0-19-856745-5
Forest ecology and conservation; a handbook of techniques.

Newton, Adrian C. (Techniques in ecology and conservation series)
Oxford U. Press, ©2007 454 p. \$54.95

As our understanding of the complexity of forest environments grows, so does the list of ways to manage conservation projects. Newton (conservation science, Bournemouth U.) gives students and practitioners a strong background in a wide range of conservation techniques, starting with assessing forest extent and conditions through aerial or satellite imagery and geographical information systems, evaluating forest structure and composition through sampling and measuring, understanding and modeling forest dynamics through a variety of computational and non-computational means, diagnosing reproductive ecology and genetic variations, dealing with the forest as habitat and working toward effective forest conservation through such techniques as adaptive management. The result is a concise, manageable guide and a good overview of new technologies and tested techniques.

QH541 92-807-2679-X
Marine and coastal ecosystems and human well-being; synthesis, a synthesis report based on the findings of the millennium ecosystems assessment.

Title main entry. Ed. by Claire Brown et al.
UN Environment Programme, ©2006 64 p. \$30.00 (pa)

One third of the world's population lives on the four percent of the earth's surface that is suitable coast. This report surveys the status of marine and coastal ecosystems, noting the impact on habitat and biodiversity as well as the lack of understanding of human impact on this fragile locale. They list the direct and indirect drivers of change in marine and coastal ecosystems and link human well-being to robust coastal ecosystems in terms of natural resources, health, social relations, and security. They describe appropriate trade-offs between conservation and other priorities and present four scenarios for the future, ending with recommendations for response options, policy responses, and means of meeting the needs of land, sea and people.

QH541 978-1-60021-434-9
New research on forest ecology.

Title main entry. Ed. by Archibald K. Scaggs.
Nova Science Publishers, ©2007 257 p. \$129.00

These ten papers represent a variety of examples of recent research in forest ecology. Topics addressed include foliar nutrient resorption in tree species, ectomycorrhizal inoculation of fast growing tree species in the tropics, functional roles of soil arthropods in forest ecosystems, influence of microhabitat on survival of *Colophospermum Mopane* seeds and seedlings in a semi-arid African savanna, and diagnosing tropical forests through remote sensing. The papers also discuss the role of vegetation structure, topography of the terrain, and species' preferred foraging substrate in determining the seasonality of a forestal bird community; relationships between metabolizable energy and chemical parameters from forest fruits using a parallel genetic algorithm worldwide model; and self-thinning and stand dynamics of even-aged pure stands of Sugi and Hinoki cypress.

QH541 2006-100956 978-1-59726-077-0
Restoring natural capital; science, business, and practice.

Aronson, James et al. (Society for ecological restoration international)
Island Press, ©2007 384 p. \$45.00 (pa)

Aronson (Center for Functional and Evolutionary Ecology, French National Scientific Research Network, France), Milton (conservation ecology, Stellenbosch U., South Africa) and Blignaut (economics, U. of Pretoria, South Africa) believe that reversing environmental degradation requires both better management of the demand for ecosystem goods and services and an increase in the supply of ecosystem goods and services through the restoration of natural capital. It is the latter issue that their book focuses on, seeking to establish common ground between economists and ecologists on the science, business, and practice of restoring natural capital. They first present chapters reflecting on the restoration of natural capital from ethical, ecological economic, and mainstream economic perspectives. Nineteen case studies then demonstrate how to set socially and ecologically appropriate targets for restoration of natural capital, refine approaches to funding and implementing restoration projects, and connect natural capital restoration to other social and economic goals. Finally, the editors present chapters exploring such issues as the valuation of natural capital and outlining effective tactics for overcoming economic, legal, institutional, cultural, political, physical, and biological obstacles to natural capital restoration from the local and landscape levels to the global level.

QH541 2007-000072 978-0-275-99459-4
Understanding biodiversity.

Zeigler, David.
Praeger, ©2007 173 p. \$44.95

Writing for a general readership, Zeigler (biology, U. of North Carolina at Pembroke) introduces the science of biodiversity. He describes a variety of types of biodiversity, including diversity within and between species, genetic diversity, diversity of ecosystems and ecological interactions, temporal diversity, metabolic diversity, reproductive and sexual diversity, and even behavioral and cultural diversity. He also discusses systematics as a means of representing biodiversity and considers what the implications of understanding biodiversity have to do with social and environmental values.

QH545 2006-101093 978-1-60021-556-8
Environmental research trends.

Title main entry. Ed. by Marin A. Cato.
Nova Science Publishers, ©2007 319 p. \$129.00

Forty international academics and researchers contribute two expert commentaries and eight research and review articles on environmental topics. Coverage includes the need for new approaches to monitor drinking waters, nationwide practices and future directions of biological monitoring in Japan, in-vessel composting of contaminated soils and waste, heavy metals and organochlorine pesticides in sediments in India, soil magnetic susceptibility measurements for characterizing heavy metal patterns in industrial areas, biosorption of heavy metal ions from aqueous solutions, the impact of refuse dumps on the conservation of migratory avian scavengers, the influence of lead and cadmium on some genetic and physiological parameters of laboratory mice, primary culture and leukocyte migration as tools to evaluate the effects of persistent organic pollutants in fish, and radionuclides and particulate matter in Belgrade air.

QH581 2006-048515 1-4160-2255-4
Cell biology, 2d ed. (online access included)

Pollard, Thomas D. and William C. Earnshaw.
Elsevier Saunders, ©2008 905 p. \$94.00

Pollard (Yale U.) and Earnshaw (U. of Edinburgh), with new help from Jennifer Lippincott-Schwartz (National Institutes of Health) present this second edition text for both undergraduate and graduate students. Molecular structures are the starting points for discussion of how each cellular system is constructed and how it operates. The text is abundantly illustrated, and this edition includes online access to additional materials.

QH585 2006-039667 978-1-58829-691-7
Flow cytometry; principles and applications.

Title main entry. Ed. by Marion G. Macey.
Humana Press Inc., ©2007 290 p. \$99.00

For both new and experienced users, British hematologists introduce data interpretation, quality control procedures, pitfalls and problems, and detailed protocols for flow cytometry. The technique has seen increased research and clinical applications of late with improvements in instrument design and computing power, and the increased availability of fluorescent agents. Their topics include cell preparation, apoptosis, DNA analysis, immunological studies, and cell sorting.

QH588 2007-011301 978-0-470-03356-2
Human embryonic stem cells; the practical handbook.

Title main entry. Ed. by Stephen Sullivan et al.
John Wiley & Sons, ©2007 404 p. \$195.00

Experimentation has continued apace since the isolation of the first human embryonic stem (ES) cells about a decade ago, and associated procedures and technologies have grown right along with that experimentation. The rapid rate of research has created an overabundance of protocols from lab to lab, some conflicting. This comprehensive collection of appropriate protocols takes the novice into consideration as contributors closely describe obtaining and culturing human ES cells, including explanations of derivatives of human ES cell lines as well as standard and chemically-defined culture methods, characterization of human ES cells, including phenotype, genetic and epigenetic analysis, manipulation in vivo and in vitro of human ES cells, including differentiation and repopulation, directed differentiation of human ES stem cells into ectoderm with forebrain and other neurons, and other issues such as gene targeting and RNA interference.

QH588 2006-037525 978-1-60021-519-3
Stem cell research advances.

Title main entry. Ed. by Lydia P. Davenport.
Nova Biomedical Books, ©2007 286 p. \$129.00

Regardless of controversies over funding, its real potential, and ethical considerations, this volume is indication that stem cell research continues apace. Topics include the expression of neurofilament proteins in adult one marrow mesenchymal stem cells and embryonic stem cells and their potential, stem cell transplantation for Ph⁺ leukemia in the Imatinib and post-Imatinib eras, retinal progenitor cells and retinal stem cells in light of retinoblastoma, T-cell depleted allogeneic stem cell transplantation and salvage donor lymphocyte infusions, mesenchymal stem cells as bone marrow gate-keepers, the role of PBSC in multiple myeloma, stem cells in gastrointestinal cancer, neurological complications after stem cell transplantation, the use of neural stem cells in treating traumatic brain injury in rats, old and new problems in stem cell transplantation, bone marrow stem cell transplantation for cartilage repair ad therapeutic actions of trans-coronary sinus delivery of autologous bone marrow.

QH588 2007-004868 978-1-60021-601-5
Stem cell research developments.

Title main entry. Ed. by Calvin A. Fong.
Nova Science Publishers, ©2007 315 p. \$129.00

Stem cell research continues apace, and ethical questions aside, researchers have made significant progress toward human transplantation without attendant side effects. This collection of nine papers describes aspects of stem cell research, including the application of stem cells and progenitor cells and vascular diseases, gas transcription factors and T cell development from hematopoietic stem cells, protein tyrosine phosphatase Shp-5 in cytokine signaling and stem cell regulation, stem cells for neural tissue engineering, natural stem cell niche-dependency, potential applications of human umbilical cord stem cells in Wharton's jelly for the treatment of Parkinson's Disease, human oogenesis and follicular retrieval from ovarian somatic stem cells and applications of gastric stem cells and the use of fibrocytes, mesenchymal stem cells and monocytes in research.

QH603 2006-014176 1-58829-667-9
Mitochondria practical protocols.

Title main entry. Ed. by Dario Leister and Johannes M. Herrmann.
(Methods in molecular biology; v.372)
Humana Press Inc., ©2007 592 p. \$139.00

Mitochondrial research has proven invaluable in the study of important cell processes such as apoptosis and aging. Advances in methodology and technology have led to this collection of 39 new protocols and reports of best practices for major new experimental model systems, including those for mammalian cells, basic biology, and the isolation and development of model experimental organisms. The collection also includes a range of articles on protocols for genetic and molecular biology, including screens for mitochondrial mutants and replication analysis, as well as techniques for researching the physiology of plant and animal mitochondria. Articles cover methods in dynamics and morphology research, including conventional and alternate choices, and the collection closes with articles on functional genomics, including a report on an integrated database for mitochondrial proteins.

BOTANY

QK47 2006-939406 978-0-534-46669-5
Introductory botany; plants, people, and the environment, 2d ed.

Berg, Linda R.
Brooks/Cole Publishing, ©2008 622 p. \$130.95

Appropriate for non-science majors, this colorful textbook describes the plant cell, the adaptations of plant structures, the molecular basis of inheritance, and the various groups in the protista, fungi, and plant kingdoms. The second edition adds sections on genomics, chytrids, glomeromycetes, the pumpkin family, and population ecology.

- QK142 2006-026090 978-0-8165-2588-1
The ribbon of green; change in riparian vegetation in the southwestern United States.
 Webb, Robert H. et al.
U. of Arizona Press, ©2007 462 p. \$75.00
 Popular and scientific publications have warned since the 1970s that about 90% of vegetation along rivers and streams in the southwestern US has been lost, and political policy has been enacted to deal with the emergency. Hydrologists Webb and Stanley A. Leake, and botanist Raymond M. Turner, currently or formerly with the US Geological Survey, check into the claim, and find that it goes back to a single paper concerning a single unusual site. Seeking broader evidence, they look at long-term changes, particularly investigating whether there has in fact been a net loss of woody riparian vegetation. They find change in the vegetation, but not overall loss.
- QK146 2006-013899 978-1-889963-86-0
Alaska trees and shrubs, 2d ed.
 Viereck, Leslie A. and Elbert L. Little.
Snowy Owl Books, ©2007 359 p. \$24.95 (pa)
 Highlights of this update of the 1972 classic work on the woody plants of Alaska are updated descriptions of the habitat of every tree and shrub in the state, and new species distribution maps based on current technology. The book by Viereck (retired plant ecologist, U.S. Forest Service's Institute of Northern Forestry, Fairbanks) and Little (d. 2004, senior scientist, U.S. Forest Service, Washington, DC) also contains botanical drawings, color plates, a section on introduced plants, and a glossary of botanical terms. Snowy Owl Books is an imprint of the U. of Alaska Press.
- QK149 2006-031569 978-1-59714-050-8
Flora of the Santa Ana River and environs; with references to world botany.
 Clarke, Oscar F. et al.
Heyday Books, ©2007 495 p. \$29.95 (pa)
 In this culmination of a distinguished career in natural history, Clarke (who established the Herbarium at the U. of California, Riverside) headed a team that documented the botanical diversity of this major southern California waterway. The guide includes an introduction to plant ecology, a list of all known species in the Santa Ana River Watershed, map, identification keys, family tree of major plant groups, a world plant phylogeny, color and b&w illustrations, and a glossary.
- QK179 2006-003755 0-9749195-4-3
Dakota flora; a seasonal sampler.
 Ode, David J.
South Dakota State Historical Society, ©2006 260 p. \$29.95 (pa)
 Ode (botanist/ecologist, South Dakota Department of Game, Fish and Parks) collects revised, reprinted columns entitled "Dakota Flora" that he wrote for the *South Dakota Conservation Digest* from 1987 to 2005. The short odes to individual plants (e.g., buffalo currant, Dakota buckwheat, and Black Hills spruce) are organized by season. The book includes color photos, a listing of the scientific names of the plants mentioned, and an annotated list of plant field guides.
- QK188 2006-018786 978-1-57441-214-7
Big Thicket plant ecology; an introduction, 3d ed.
 Watson, Geraldine Ellis. (Temple Big Thicket series; no.5)
Univ. of North Texas Press, ©2006 136 p. \$49.00 (pa)
 Watson, a former National Park Service plant ecologist/ranger who lives on her private nature reserve in East Texas, offers an in-depth introduction to the uniquely diverse ecology of the Big Thicket National Preserve. She also traces the history of ongoing preservation efforts. Illustrations include geographical and geological maps; a diagram of the interrelationships of Big Thicket plant communities; and b&w photos of flora and habitat including thickets (natural and unnatural), pine savannah wetlands, the grass pink orchid, palmetto hardwood flats, and cypress-tupelo swamps. The book was originally published in 1979.
- QK538 2006-048350 0-8493-3856-5
Pleurocarpus mosses; systematics and evolution. (CD-ROM included)
 Title main entry. Ed. by Angela E. Newton and Raymond S. Tangney. (The Systematics Association special volume series; 71)
CRU / Taylor & Francis, ©2007 434 p. \$149.95
 The traditional Linnaean classification of organisms is undergoing a revolution due to the application of molecular data and cladistic analysis (a method of reconstructing evolutionary trees). Newton (Natural History Museum, London, UK) and Tangney (National Museum Wales, Cardiff) trace the volume's origin to a symposium held at Cardiff in 2004, a decade after the publication of the first major attempt to study the relationships of pleurocarpus mosses (those having highly branched, prostrate stems) using cladistic methodology. In 19 chapters, international contributors discuss new data on hypotheses about these phylogenetic relationships, the fossil record, and issues relating to species diversity. The accompanying CD-ROM contains data sets and color illustrations.
- QK566 978-0-643-09431-4
Algae of Australia; batrachospermales, thorealess, oedogoniales and zygneemaceae.
 Title main entry. Ed. by Timothy J. Entwisle et al. (Algae of Australia Series)
CSIRO, ©2007 191 p. \$81.00
 Six specialists from Australia and New Zealand contribute to a reference text documenting five families, 14 genera and 210 species and infraspecific taxa of red and green freshwater algae. The text covers the vast majority of macroscopic freshwater algae likely to be encountered in Australia and features descriptions of the orders, families and genera, along with bibliographic lists, identification keys, and descriptions and distribution maps for each species. Illustrated throughout with b&w photographs and line drawings. Distributed in the U.S. by Antipodes Books and Beyond.
- QK566 978-0-643-09377-5
Algae of Australia; introduction.
 Title main entry. (Algae of Australia Series)
CSIRO, ©2007 727 p. \$162.00
 At least 12,000 marine, freshwater, and terrestrial species of algae are thought to occur in Australia. In this introductory volume of a new series, contributors shed light on the history of research on Australian algae, their classification, the fossil record, systematic relationships, and their identification, ecology, biogeography, and economic significance. Color and b&w photos of algae and research facilities are included, along with keys to the identification of the orders of algae, and a glossary of 1,500 terms. The book is distributed in the US by Antipodes Books and Beyond.
- QK566 978-0-643-09378-2
Algae of Australia; nemaliales.
 Title main entry. Ed. by John M. Huisman. (Algae of Australia Series)
CSIRO, ©2006 153 p. \$81.00
 Seven international specialists contribute to a reference text documenting three families, 20 genera and 55 species of the Nemaliales, one of the most diverse and significant orders of red algae in Australian waters. Coverage includes an introduction to the history, structure, reproduction, and relationships of the order; advice on the microscopical examination of specimens; identification keys to families, genera and species; and descriptions and distribution maps of each taxon. The text also includes appendices describing the new genus *Titanophycus* and DNA sequence analyses of the evolutionary relationships of the order. Illustrated throughout with b&w photographs and line drawings, and 23 color plates. Distributed in the U.S. by Antipodes Books and Beyond.
- QK605 2006-032144 0-8156-3112-X
Mushrooms of the southeastern United States.
 Bessette, Alan E. et al.
Syracuse U. Pr., ©2007 373 p. \$95.00
 Bessette (biology, Syracuse U.) and fellow mycologists and botanical photographers present a guide that appears more comprehensive than previous ones to the mushrooms of the southeastern U.S. Species descriptions follow a distribution map, introductory comments, and key to the field identification of major mushroom groups. Some 80 pages of color plates showcase the amazing diversity of these fungi. The volume also includes information on identification via microscope and chemical reagents, classification, guidelines for eating wild mushrooms, gourmet recipes, a glossary, and technical and general recommended reading. This is a complement to the lead author's *Mushrooms of Northeastern North America* (1997, Syracuse U. Press).

QK625 2007-530226 978-0-643-09376-8

Fungi of Australia; septoria.

Priest, Michael J. (Fungi of Australia)

CSIRO, ©2006 259 p. \$99.00

Priest's (Orange Agricultural Institute, New South Wales) resource text provides the first overview of the Australian taxa of the anamorphic fungal genus *Septoria*, one of the largest genera of plant pathogens, which infects hosts in 54 families of flowering plants in Australia. The text documents 132 species of *Septoria*, its teleomorph *Mycosphaerella* and six related genera. Following an introduction to *Septoria* and its allies, the text contains detailed descriptions and line drawings of each taxon. Includes an index of fungi and an index of hosts. Distributed in the U.S. by Antipodes Books and Beyond.

QK644 978-0-8493-3855-7

The rhizosphere; biochemistry and organic substances at the soil-plant interface, 2d ed.

Title main entry. Ed. by Roberto Pinton et al. (Books in soils, plants, and the environment; v.80)

CRC / Taylor & Francis, ©2007 447 p. \$149.95

Underneath our feet, or more precisely, the feet of plants is a small world that allows our larger world to survive. The soil immediately surrounding plant roots, the rhizosphere, is busy with the interactions of plants, microorganisms and stable soil organic matter. The result is plant growth and nutrition on the plus side along with microbial infections on the minus. This edition continues to explain the multidisciplinary nature of the rhizosphere, which touches upon soil science, agronomy, plant nutrition and physiology, microbiology and biochemistry. In its 14 chapters, all completely updated, it describes the compounds released by plants, the rhizodeposition and microbial populations, nutrient transformation, nutrients as regulators of root morphology and architecture, the function of siderophores and fungi, molecular biology and ecology, control of plant pathogens, root-root and root-microbe chemical signals, methodological approaches to the study of carbon flow, gene flow, and models of the rhizosphere.

QK725 2006-026442 978-1-4051-4939-6

Plant mitochondria.

Title main entry. Ed. by David C. Logan. (Annual plant reviews; v.31)

Blackwell Publishing, ©2007 342 p. \$199.99

Logan (biology, U. of St. Andrews, Fife, UK) assembles 10 chapters that review recent advances in the study of plant mitochondria for plant scientists, cell and molecular biologists, and biochemists. Scientists and researchers from Europe, the US, and Australia show the complex biology of plant mitochondria from a cell biological, biochemical, and molecular biological perspective. They describe the emerging field of plant mitochondrial dynamics; the dynamic mitochondrial genome, including expression and control; the sequence and structural determinants for protein import; the interplay between nuclear and mitochondrial gene expression; electron transport; metabolism; cytoplasmic male sterility; and plant programmed cell death.

QK762 2006-025504 978-1-4051-3984-7

Senescence processes in plants.

Title main entry. Ed. by Susheng Gan. (Annual plant reviews; v.26)

Blackwell Publishing, ©2007 332 p. \$199.99

Plants have a plan for getting old, which involves a massive operation of programmed cell death and nutrient recycling. This requires a whole new set of gene expression, which cells must maintain enough machinery to carry out at the same time they are shutting down the power and taking out the recycling. The whole process is a bother in agriculture, because aging plants—especially leaves—are not as productive as young ones. Here biologists from North America and Europe look at the molecular and cellular mechanisms of the phenomenon to help other scientists seek a way to stop it.

QK871 2006-027577 978-1-4051-3995-3

Plant solute transport.

Title main entry. Ed. by Anthony Yeo and Tim Flowers.

Blackwell Publishing, ©2007 405 p. \$199.99

The movement of dissolved material within plants is examined by European and Australian biologists at levels from the molecular to the ecological and agricultural. Their goal is to fill a gap for graduate students and researchers between general texts on plant physiology and detailed studies of specific topics such as membrane transport. Among their topics are the driving forces for water and solute movement, membrane structure, transport from root to shoot, water-limited conditions, and desiccation tolerance.

QK881 50-13143 978-0-8243-0658-8

Annual review of plant biology; v.58, 2007.

Title main entry. Ed. by Sabeeha Merchant et al.

Annual Reviews, ©2007 501 p. \$212.00

The 20 articles in the 2007 edition of the top-rated series synthesize the results of recent research in the areas of basic plant biochemistry, genetics, physiology, molecular aspects of plant development, and genomics. The contributors present a transgenic barley for producing recombinant proteins, consider the production of unusual fatty acids in transgenic plants, and explore oxidative modifications to cellular components in plants. Other topics include leaf senescence, the biology of arabinogalactan proteins, light regulation of stomatal movement, tetrapyrrole biosynthesis in higher plants, ATP-binding cassette transporters, and tracheary element differentiation.

QK981 2006-051254 978-1-57808-506-4

Functional plant genomics.

Génomique en biologie végétale. English. Ed. by J.-F. Morot-Gaudry et al.

Science Publishers, Inc., ©2007 699 p. \$119.50

Advances in plant genomics lead Morot-Gaudry (Institut National de la Recherche Agronomique-INRA, France), Lea (Institute of Environmental and Natural Sciences, U. of Lancaster, UK), and Briat (INRA) to laud the arrival of a "new Plant Biology" they hope is demonstrated in their presentation of 33 papers on recent techniques in plant genomics to an audience of advanced students in biology and agronomy. Papers address structural genomics and *in silico* analysis in chapters discussing the physical structure of the plant nuclear genome, plant nuclear genome sequencing, bioinformatics, databases in biology, gene prediction, detecting protein function from genome sequences, and large-scale sequence comparisons. Others examine DNA microarrays in plants, proteomics, techniques for tracking gene expression in plants, metabolomics, metabolic fingerprinting and profiling by proton nuclear magnetic resonance imaging, and the structure of metabolic networks. Rice, legumes, tomato, grape, and sugarcane are discussed as plant models for genomics. Remaining papers discuss genomics, genetic variability, and plant breeding. Distributed in the US by Enfield.

ZOOLOGY

QL31 2006-027676 978-0-8061-3745-2

George Miksch Sutton; artist, scientist, and teacher.

Jackson, Jerome A.

U. of Oklahoma Pr., ©2007 239 p. \$29.95

This biography recounts the life and career of ornithologist, teacher, and bird artist George Miksch Sutton (1898-1982). Jackson (biology, Florida Gulf Coast U.), a friend and colleague of Sutton, uses letters, interviews, and personal knowledge to describe Sutton's family history and his journeys around the US as an ornithologist. About 50 reproductions of Sutton's art, including 28 in color, are presented, specifically those that were never published, are hard to find, or were published a long time ago.

QL31 2006-029638 978-0-19-531077-1

The man who saved sea turtles; Archie Carr and the origins of conservation biology.

Davis, Frederick Rowe.

Oxford U. Press, ©2007 312 p. \$29.95

Davis (history, Florida State U.), a student and friend of the scientist, provides a biography of biologist Archie Carr (1909-1987). Carr championed endangered sea turtles, wrote books on their natural history and habitat, studied their ecology and migration, and pioneered conservation biology. The biography, aside from recounting his career and life (including his personality and collaboration with his wife), provides insight on the development of biology in America during the twentieth century. Davis considers Carr's work in the context of the institutional history of the Department of Biology at the U. of Florida and the Museum of Comparative zoology at Harvard, the disciplinary history of herpetology, popular travel narratives, the social history of popular conservation movements, and the naturalist tradition.

- QL84 978-0-7748-1376-1
The archive of place; unearthing the pasts of the Chilcotin Plateau.
 Turkel, William J. (The nature/ history/ society series)
U. of British Columbia Press, ©2007 322 p. \$85.00
 Turkel (history, U. of Western Ontario) explores how people interpret material traces to reconstruct past events, using three case studies from the Chilcotin plateau in the west-central of what is now British Columbia. All three relate to issues that arose during the 1990s, concerning respectively mining rights, the route of a heritage trail, and reburial after an aboriginal graveyard was disturbed. Distributed in the US by University of Washington Press.
- QL84 978-0-7748-1362-4
Hunters at the margin; native people and wildlife conservation in the Northwest Territories.
 Sandlos, John. (The nature, history, society series)
U. of British Columbia Press, ©2007 333 p. \$85.00
 Sandlos (history, Memorial U. of Newfoundland) chronicles the tension between Aboriginal subsistence hunters in the Canadian north, and central governments that sought to conserve the wild populations of bison, muskox, and caribou during most of the 20th century. Among the issues that arose were the purpose of conservation, the reasons for decline, and who had the best knowledge and insight on the matter. Sandlos developed the study from his Ph.D. dissertation at York University. Distributed in the US by University of Washington Press.
- QL138 2006-052274 0-930118-41-3
Sea of Cortez marine invertebrates; a guide for the Pacific coast, México to Perú, 2d ed.
 Kerstitch, Alex and Hans Bertsch.
Sea Challengers, Inc., ©2007 124 p. \$24.95 (pa)
 Bertsch and the late Kerstitch combined their academic backgrounds and considerable talents in photography to provide an atlas of the sponges, hydroids, anemones, corals, gorgonians, worms (flat, ribbon, segmented peanut and spoon), clams, snails, nudibranchs, octopuses, barnacles, shrimps, lobsters, crabs, sea starts, brittle starts, sea cucumbers and sea urchins from this rich but endangered warm water haven in Mexico. The photographs are amazing and all are in color. The authors give common and Latin names, dimensions, habitat and pertinent information for each.
- QL444 2006-026391 978-0-8493-3398-9
The biology and fisheries of the slipper lobster.
 Title main entry. Ed. by Kari L. Lavalli and Ehud Spanier. (Crustacean issues; 17)
CRC / Taylor & Francis, ©2007 400 p. \$189.95
 While comparatively little is known about them, slipper lobsters are increasingly becoming targets of commercial fishery operations. Aimed at fisheries managers and other interested parties, this volume provides an overview of the current state of knowledge regarding these creatures. It contains 18 contributions from Lavalli (Boston U.), Spanier (U. of Haifa, Israel), and other researchers. Coverage includes such topics as the digestive system of slipper lobsters; the biomechanics of their exoskeletons; and the fishery and biology of commercially exploited Australian fan lobsters. B&w maps and diagrams accompany the text throughout.
- QL444 978-90-04-15693-7
Candoninae (Ostracoda) from the Pilbara region in Western Australia.
 Karanovic, Ivana. (Crustaceana monographs; 7)
BRILL, ©2007 433 p. \$198.00
 They live in and around the scant ground water of the Pilbara region of Australia, and they are well adapted to this region that may have first welcomed them in a particularly dry spell in the Tertiary. They constitute three tribes, including one newly described and defined here. This report from a major study involving over 200 collection sites includes 64 newly discovered species and four new genera. It lists all identified species according to genus, keys to the species of Candoninae of the Pilbara region, phylogenetic analysis of the Pilbara Candoninae and of the genera of the Recent Candoninae, and a key to the genera of the Recent Candoninae of the world. This is well-illustrated and includes scanning electron micrographs and references along with a taxonomic index.
- QL473 2006-019491 978-1-4027-4153-1
National Wildlife Federation field guide; insects and spiders & related species of North America.
 Evans, Arthur V.
Sterling Publishing Co., ©2007 496 p. \$19.95 (pa)
 For amateur and experienced naturalists, Evans (entomology, Smithsonian Institution Museum of Natural History, and recent invertebrates, Virginia Museum of Natural History) offers a field guide that features about 940 North American insects, spiders, and related species, including ticks, mites, scorpions, millipedes, butterflies, moths, and crustaceans, found in terrestrial and freshwater habitats, both native and exotic. Approximately 1,600 close-up color photos accompany text and captions relating to measurements, range, identification, habitat, and features. Species are grouped within families and in sections divided into order, subclass, class, and subphylum. Introductions to numbers of species, physical characteristics, natural history, reproduction, and development are provided.
- QL503 978-90-04-15151-2
The fleas (Siphonaptera) of Fennoscandia and Denmark.
 Brinck-Lindroth, Gunvor and Frans G.A.M. Smit. (Fauna entomologica Scandinavia; v.41)
BRILL, ©2007 185 p. \$142.00
 What is an entomologist to study during those long, dark, frozen winters of the north? Brinck-Lindroth (Museum of Zoology, Lund U., Sweden) and the late Smit (formerly Natural History Museum, London) profile 89 species or subspecies of flea, 69 of which have actually been found in Fennoscandia or Denmark, and the rest known from neighboring areas and so expected to put in an appearance there any day. Before detailing the specific taxa, they discuss general features such as life history, medical and veterinary importance, and collecting and mounting.
- QL505 2006-033232 978-0-8018-8616-4
Cockroaches; ecology, behavior, and natural history.
 Bell, William J. et al.
Johns Hopkins U. Press, ©2007 230 p. \$100.00
 Describing itself as a "grandchild" of *The Biotic Associations of Cockroaches* (by Roth and Wilson, 1960), this volume updates the previous work, but narrows its focus to non-domestic cockroach species and strives to present its information within ecological and evolutionary context. Chapters describe the extreme diversity of the morphology, locomotion, diets, and habitats of the 4000 species of *Blattaria*. They also provide overviews of the mating strategies, reproduction, and social behavior of cockroaches, as well as discussion of termites as social cockroaches and the ecological impact of cockroaches. Also discussed are microbes as the "unseen influence" on cockroach ecology and evolution. The text is illustrated with black and white photographs, drawings, and charts.
- QL520 2007-367142 978-0-643-09073-6
The complete field guide to dragonflies of Australia.
 Theischinger, Günther and John Hawking.
CSIRO, ©2006 366 p. \$45.00 (pa)
 A veteran in the study of aquatic insects, Theischinger (Australian Museum) and Hawking, an invertebrate ecologist at the Murray-Darling Freshwater Research Centre, present a highly illustrated guide to species of Zygoptera (Damselies) and Epiproctophora/Anisoptera (Dragonflies proper) that are found in Australia. They include an illustrated glossary, keys for identifying adults and larvae, a checklist of species, and a guide to studying dragonflies. Distributed in the US by Antipodes Books and Beyond.
- QL558 978-0-643-09159-7
A guide to Australian moths.
 Zborowski, Paul and Ted Edwards.
CSIRO, ©2007 214 p. \$36.00 (pa)
 Illustrated throughout with some 400 color photographs, Zborowski (biological and chemical sciences, U. of Queensland, Australia) and Edwards' (CSIRO Entomology) guide introduces general readers to a sampling of the estimated 20,000 to 30,000 species of moths found in Australia. The authors explain what a moth is and how moths differ from butterflies, the environmental role of moths, their relationships with other animals and plants, and their importance to humans. The bulk of the text is devoted to identifying the moth families, and provides information on 69 of the 85 families of moths in Australia. Distributed in the U.S. by antipodes Books and Beyond.

QL566 2006-023201 978-0-8018-8573-0

The bees of the world, 2d ed.

Michener, Charles D.

Johns Hopkins U. Press, ©2007

953 p.

\$180.00

Though Michener (emeritus, entomology, U. of Kansas) does not treat the issue of colony collapse disorder, this update of the 2000 edition is especially timely given recent alarm about the unexplained decline in the bee population so vital for flowering plant pollination. This definitive reference on some 17,000 species and 1,200 genera/subgenera of *Apiformes* presents new facts, reclassifications based on phylogenetic analyses, more recent annotated references, and photographic plates of fossil bees. Following an overview of the importance and natural history of bees, the author presents a comprehensive treatment of bee taxonomy. For each family and subfamily, he presents identification keys and information on their unique characteristics, distribution, and references. The volume also includes detailed illustrations and useful summary tables.

QL596 978-0-88864-381-0

Ladybugs of Alberta; finding the spots and connecting the dots.

Acorn, John. (Alberta insects series)

The U. of Alberta Press, ©2007

169 p.

\$29.95 (pa)

In the third volume of his series, Acorn (U. of Alberta) presents the only popular guide to ladybugs in any region of North America. He describes a ladybug's life and the historic and current study of ladybugs in Alberta, and discusses introduced ladybugs and conservation. The final chapters survey the lesser and the larger of the 75 species, providing information on the meaning and pronunciation of the names, identification, distribution, and other matters. Color photographs abound, and a complete gallery of ladybugs with relevant page numbers acts as an index. Distributed in the US by Michigan State University Press.

QL636 978-0-643-09334-8

Zoological catalogue of Australia, v.35: Fishes; 3v.

Title main entry.

CSIRO, ©2006

2178 p.

\$518.00

Providing an authoritative and exhaustive reference, the three volumes catalog the fishes of Australia, with entries for each genus containing a drawing, description, and list of references, followed by sub-entries for each subgenus containing brief entries that include bibliographic citations, distribution, ecology, and data on the museums containing examples. An introduction describes the Australian Biological Resources Study responsible for the catalog, the history of study of fishes in Australia, and, broadly, the characteristics of fishes there. Volume Three contains both common name and taxonomic indexes. Distributed in the US by Antipodes Books and Beyond.

QL638 2007-924482 978-1-888569-91-9

Andromous sturgeons; habitats, threats, and management; proceedings.

Symposium on Andromous Sturgeons (2003: Quebec City, Canada) Ed.

by Jean Munro et al.

American Fisheries Society, ©2007

415 p.

\$69.00 (pa)

The proceedings of the symposium held August 2003 address aspects of the plight of these species, most of which face extinction. Fortunately, if one can make that claim, that problem has led to increased interest and research, leading to work in the sturgeons' habitat, threats and restoration, management and population trends with a range of topics, including several case studies. Contributors describe research in seasonal refugia and trophic dormancy in gulf sturgeon that refute the thermal barrier hypothesis, seasonal movements of the sturgeon in the Gulf of Mexico, the relationship between sturgeon and water flow, macrobenthos assemblages and their potential to provide food, statistics on tagging exercises with Atlantic sturgeon, tracking the effects of dumping, remediation in the Baltic Sea, tracking sturgeon in the Hudson River, attempts to develop an index of abundance, and means of testing the reliability of split-beam hydroacoustic monitoring.

QL638 2006-285742 978-1-888807-15-8

Atlas of tilapia histology.

Morrison, Carol M. et al.

World Aquaculture Society, ©2006

96 p.

\$80.00 (pa)

Morrison (pathology, IWK Health Centre, Halifax, Nova Scotia) et al. provide an atlas of the histology of the tilapia for farmers and fish health professionals for use in making diagnoses of disease conditions. The book is also meant for producers and breeders for comparison of normal fish with newly bred strains and hybrids or fish reared in unusual environmental conditions. The atlas presents color photographs along with descriptions of species and strains, general anatomy with dissections, and organ systems and sensory structures.

QL638 1-56612-114-0

Biology, assessment, and management of North Pacific Rockfishes; proceedings.

Lowell Wakefield Fisheries Symposium (23rd: 2005: Anchorage, AK) Ed. by Jonathan Heifetz et al.

U. of Alaska Sea Grant, ©2007

550 p.

\$50.00

They are commercially important because they include such species as the ocean perch, environmentally important because their distribution indicates the health of their waters, and scientifically important because as yet will still have much to learn about their life histories, population dynamics, growth, genetic populations structure and numbers. These proceedings from the September 2005 symposium contain research on these very issues and more, including several papers about the life history of species in Pacific waters, more on population structure and speciation, including several genetic studies differentiating data among rockfishes, and two papers on aging and growth including one using radiometric ages. Other papers cover fishery management, habitat requirements and stock assessment, including an article on an unexploited species in the California current and a survey of trawler catches.

QL638 2007-925726 978-1-888569-93-3

Bluegills; biology and behavior.

Spotte, Stephen.

American Fisheries Society, ©2007

214 p.

\$35.00 (pa)

Spotte (Mote Marine Laboratory, Florida) takes an unconventional approach in his depiction of an unconventional fish, long a favorite for sport. He does not seek to merely inform those who have an abstract or mundane relationship with the bluegill, but instead to help readers experience the fish. He enjoys the intellectual challenge of having the fish more or less speak for itself through its behaviors, so he describes bluegill movement, sensory perception, foraging, competition, predation, reproduction, development, growth, mortality and only then of its management, so readers get to know the fish before they begin to attempt to order them about.

QL638 2007-923213 978-1-888569-92-6

Salmonid field protocols handbook; techniques for assessing status and trends in salmon and trout populations.

Johnson, David H. et al.

American Fisheries Society, ©2007

478 p.

\$35.00 (pa)

Primarily based on Pacific Salmon research, this handbook describes 13 field sampling protocols and five supplemental techniques for determining the abundance, distribution, and productivity of salmon populations, especially in stream and river networks. The protocols guide the field practitioner in the selection of appropriate methods to collect fish once the sampling locations have been determined. Each protocol reviews the evolution of the method, walks through the actual field method and data capture, and lists personnel requirements and equipment needs. A glossary and some black and white photographs are provided.

QL638 978-1-55017-418-2

Sharks of the Pacific Northwest; including Oregon, Washington, British Columbia and Alaska.

De Maddalena, Alessandro et al.

Harbour Publishing, ©2007

144 p.

\$19.95 (pa)

Sharks of the Pacific Northwest—those off the coasts of Oregon, Washington, British Columbia, and Alaska—are described in this volume, which is a guide to 18 different species. After descriptions of the biology, ethology and ecology of sharks; shark/human interactions; and classification and species identification, each of the 18 species is profiled, with color photos and illustrations and information on morphology, coloration, teeth shape, size, habitat, diet, distribution, behavior, threat to humans, and other data. Maddalena is a marine life illustrator and curator of the Italian Great White Shark Data Bank. Preti is a marine ecologist and Polansky works in visual arts. The book is suitable for biologists and enthusiasts. Distributed in the US by Graphic Arts Center Publishing.

- QL696 978-0-643-09226-6
Shorebirds of Australia.
 Geering, Andrew et al.
 CSIRO, ©2007 242 p. \$45.00 (pa)
 Following in the example of 1987's *Shorebirds in Australia*, produced by the Australasian Waders Study Group, the editors of this work (of the Queensland Wader Study Group, Australia) present recent research on the biology and conservation of the shorebirds of Australia. The volume provides more detailed coverage of these topics than its predecessor, but less information on distribution and migration. It discusses basic aspects of taxonomy, migration, breeding, and feeding; topography and plumages; and biological descriptions of each shorebird species. The volume is illustrated with color photographs as an aid for identification. Distributed in the US by Antipodes Books and Beyond.
- QL696 0-643-09165-3
Wedge-tailed eagle.
 Olsen, Penny.
 CSIRO, ©2005 111 p. \$36.00 (pa)
 Olsen (editor of the *Birds Australia* magazine, *Wingspan*) summarizes the current knowledge of Australia's largest true eagle, the Wedge-tailed Eagle. She covers distribution, habitat, hunting, relationships, reproduction, chick development, and conservation. She also offers brief discussions of changing perceptions of the bird from aboriginal times to the present. The volume is illustrated with black-and-white line drawings and color photographs. Distributed in the US by Antipodes Books and Beyond.
- QL723 978-0-8014-7375-3
The mammals of Costa Rica; a natural history and field guide.
 Wainwright, Mark.
 Cornell U. Press, ©2007 454 p. \$29.95 (pa)
 With 400 color and b&w drawings, synthesis of the scientific literature, and details from firsthand observation, this almost-pocket guide (5x8") offers accounts of all of Costa Rica's readily identifiable terrestrial and freshwater mammals. Descriptions include key identification features, range maps, local folklore and mythology, and information on natural history and conservation. The illustrations show not only the mammals themselves, but also their tracks, foods, and skulls. The guide provides an entry point into a general study of tropical ecology and conservation for both first-time and experienced visitors to Costa Rica and the American tropics, as well as for naturalists, students, and researchers. Wainwright is a naturalist and instructor for tropical ecology courses in Costa Rica.
- QL737 2006-386975 0-643-09204-8
Echidna; extraordinary egg-laying mammal.
 Augee, Michael et al. (Australian natural history series)
 CSIRO, ©2006 136 p. \$36.00 (pa)
 They have been scooting and waddling on the earth for over 100 million years and in the right light they can be considered handsome, in a pre-historic throwback living fossil sort of way. They have distinctive features, such as a mouth at the very end of a long snout and luxuriant but spiny fur coats. They may be short-beaked or long-beaked and are denizens of Australia and New Guinea, but they have a long-extinct South American forebear. Those fur coats and their ability to produce milk would make them mammals, but they also lay eggs, making them officially monotremes, a distinction they share only with the platypus. Augee (formerly biology, U. of New South Wales) and his fellow echidna enthusiast co-author and illustrator use the most recent research to fully describe this delightful and unique creature. Distributed in the US by Antipodes Books and Beyond.
- QL737 2006-036127 978-0-8109-9301-3
Predator; life and death in the African bush.
 Ross, Mark C. and David Reesor.
 Harry N. Abrams, ©2007 207 p. \$35.00
 Ross, a long-time safari guide and photographer in Kenya, in collaboration with photographer Reesor, gives center stage to five major predators of the African bush: lions, cheetahs, leopards, hyenas, and crocodiles. Accompanying images of each predator on the prowl and at play (more than fifty for each animal), text offers insights on the daily lives, social patterns, hunting methods, and biology of the creatures, along with tips for observing them on safari. Also included are biological sketches, fact sheets, and a pull-out guide listing and comparing the major characteristics and statistics of the five predators. Oversize: 10.25x10.25".
- QL737 2006-051023 0-202-30904-5
Primate societies; group techniques of ecological adaptation. (reprint, 1971)
 Kummer, Hans.
 AldineTransaction, ©2007 160 p. \$24.95 (pa)
 In this reprint from 1971, Kummer (zoology, U. of Zurich) looks at the patterns of social interaction among primates through the perspective of evolutionary adaptation. He describes how aspects of social behavior are inherited, the daily life of a primate society of hamadryas baboons, general characteristics of those in Africa, Asia, and South America, and the terrestrial monkey species. Primate communication, social structure, and adaptive function are detailed, with attention to kinship and age groups. He also discusses the origins of behavioral traits of primates in terms of phylogenetic, ecological, and cultural perspectives. The final chapter is a brief comparison of humans and primates in terms of social structure, technology, and sexual differentiation and group life.
- QL737 978-1-57808-360-2
Reproductive biology and phylogeny of Cetacea; whales, dolphins and porpoises.
 Title main entry. Ed. by Debra L. Miller. (Reproductive biology and phylogeny; v.7)
 Science Publishers, Inc., ©2007 428 p. \$118.00
 Biologists and other sciences from just about anywhere with a sea coast synthesize the current knowledge about the reproductive biology of the more than 80 species in the marine mammal order. Their topics include fossil history, functional anatomy of the cetacean reproductive system compared to that of the domestic dog, the endocrinology of reproduction, the mature spermatozoon, fertilization, placental structure, and courtship and mating behavior. Distributed in the US by Enfield.
- QL739 2006-036995 978-1-4051-1866-8
Essential reproduction, 6th ed.
 Johnson, Martin H.
 Blackwell Publishing, ©2007 316 p. \$54.95 (pa)
 Johnson (reproductive sciences, University of Cambridge) provides an integrated approach to reproduction in this text for medical, veterinary, and biological science students, students of physiology, and trainees in obstetrics and gynecology. Emphasis is on the general, fundamental points common to all or most species. Where the fundamentals differ, an explicit discussion is given in the text. This sixth edition has been revised to take into account recent advances in the understanding of assisted conception, HIV, pregnancy and the neonatal period, and the interaction of genes with environmental factors to influence complex behavioral phenotypes. This edition also reflects current social attitudes and legislation on sex, gender, and sexual behavior. The art program features b&w photos and images and color diagrams.
- QL751 2007-011510 978-0-87893-047-0
Quantifying behavior the JWatcher way.
 Blumstein, Daniel T. and Janice C. Daniel.
 Sinauer Associates, ©2007 211 p. \$49.95 (pa)
 Blumstein and Daniels (ecology, evolutionary biology, U. of California, Los Angeles) introduce JWatcher, free software they developed to facilitate the tracking, hypothesis testing, and interpretation of observations of animal behavior—from guppy courtship to gender differences in child behavior. The book includes application examples, exercises, tips on analytical techniques, and technical appendices on working with JWatcher files.
- QL752 2006-044699 0-202-30876-6
Natural regulation of animal populations. (reprint, 1971)
 Title main entry. Ed. by Ian A. McLaren.
 AldineTransaction, ©2007 195 p. \$24.95 (pa)
 Bypassing what were at the time recent developments in understanding the control of whole ecological systems and their component species, 10 articles originally published in various scientific journals during the 1960s focus mainly on single-species population change. Their topics include the status of the idea that weather can control insect populations, self-regulating systems in populations of animals, and population regulation and genetic feedback. The 1971 edition was published by Atherton Press, New York.

QL762 2007-008803 978-0-313-33986-8

Animal parents.

Roots, Clive. (Greenwood guides to the animal world)
Greenwood Press, ©2007 204 p. \$65.00
Zoo director, collector of animals for zoos, and a consultant on planning and designing zoos, Roots has ideas about good parents, for example elephants, and bad parents, for example most fish. He talks about the good ones. He describes them in groups such as bubble-nesters and back-packers, cold-blooded chicks, pouch babies, den mothers, and beach babies.

ANATOMY, PHYSIOLOGY

QM23 2007-002640 978-1-4160-3165-9

Elsevier's integrated anatomy and embryology.

Bogart, Bruce Ian and Victoria H. Ort. (Elsevier's integrated series)
Elsevier Health Sciences, ©2007 426 p. \$39.95 (pa)
Bogart (morphological and developmental basis of medicine, New York U.) and Ort (cell biology, New York U.) present a hybrid anatomy text that can be used as a primary source in a student's first year or a review book for boards, clerkships, and electives. It was developed in response to the changes in medical schools' curriculum from anatomic radiology to molecular biology and translational research, due to the growth in biomedical science. It covers anatomy and embryology and highlights areas where related sciences and topics that require an integrated knowledge are present, reflecting the increasing integration of USMLE exams. Case studies with questions are included at the end. There is no bibliography.

QM25 2006-028845 978-1-58890-577-2

Pocket atlas of sectional anatomy; computer tomography and magnetic resonance imaging; v.2: Thorax, heart, abdomen, and pelvis.

Moller, Torsten B. and Emil Reif.
Thieme Medical Publishers, ©2007 247 p. \$39.95 (pa)
With pictures on nearly every page, this compact and precise handbook covers a wide range of clinical imagery and accompanying explanatory illustrations. Fully updated in terms of imagery, practice and literature, this edition is thumb-indexed for easy access to sections on the thorax, including CTs and MRIs on the heart in detail, pulmonary vessels and mammography, MR angiography of the abdomen including the renal artery, MRIs of the male and female pelvis, and MR angiography of the lower extremity.

QM25 978-1-58890-475-1

Pocket atlas of sectional anatomy; computer tomography and magnetic resonance imaging; v.1: Head and neck, 3d ed.

Moller, Torsten B. and Emil Reif.
Thieme Medical Publishers, ©2007 264 p. \$39.95 (pa)
With pictures on nearly every page, this compact and precise handbook covers a wide range of clinical imagery and accompanying explanatory illustrations. Fully updated in terms of imagery, practice and literature, this edition is thumb-indexed for easy access to sections on cranial CTs from the axial and coronal, cranial MRIs from the axial to the sagittal and coronal, the neck from the axial, sagittal and coronal. Each set of images includes those of the vascular and neurofunctional systems, spaces, and structures, with illustrations listing and showing features item for item. The result is an excellent diagnostic tool when dealing with certain structures and as a reference and memory aid.

QM25 978-1-58890-566-6

Pocket atlas of sectional anatomy; computer tomography and magnetic resonance imaging; v.3: Spine, extremities, joints.

Moller, Torsten B. and Emil Reif.
Thieme Medical Publishers, ©2007 334 p. \$39.95 (pa)
With pictures on nearly every page, this compact and precise handbook covers a wide range of clinical imagery and accompanying explanatory illustrations. Fully updated in terms of imagery, practice and literature, this edition is thumb-indexed for easy access to sections on the spine, extremities and joints, including the arm, shoulder, elbow, hand, leg, hip, knee, foot, spine, cervical spine, thoracic spine, and lumbar spine, most with axial, sagittal and coronal views.

QM455 2007-000655 978-0-323-04573-5

The human brain in photographs and diagrams, 3d ed. (CD-ROM included)

Nolte, John and Jay B. Angevine, Jr.
Elsevier Mosby, ©2007 251 p. \$56.95 (pa)
Aiming for the simplicity and clarity useful to undergraduate and professional students, and to that end making choices regarding what to show and what to label, the authors make good use of the technology that allows images to be digitally retouched and made uniform. Unlabeled photographs are juxtaposed with faded-out versions of the same photos with important structures outlined and labeled, and there are some 650 illustrations in all. The new edition incorporates additional views, "guided tours" at the beginning of some chapters redone in color, and an improved set of normal magnetic resonance images, among other improvements. The book is spiral bound and so lies flat when opened. The two authors are affiliated with the U. of Arizona College of Medicine (Angevine is emeritus).

QM551 2007-002642 978-0-323-03388-6

Elsevier's integrated histology.

Telser, Alvin G. et al. (Elsevier's integrated series)
Elsevier Mosby, ©2007 436 p. \$39.95 (pa)
Designed as an initial text or for supplemental study, this aims to help medical students understand how histology related to other medical and biological sciences, an approach that helps them make clinical decisions based on basic science and therefore more accurate diagnoses. Punctuated with many full-color and monochrome illustrations, diagrams and clinical images, this includes boxed information linking text to other disciplines, including biochemistry, physiology, pathology, and genetics. The authors begin with cell structure and types and classifications of tissues and organs, then move to epithelial tissues and exocrine glands, connective and muscle tissues, cartilage and bone, nervous system and special senses, cardiovascular system, blood, blood cell formation, lymphoid system, integumentary system, endocrine organs, digestive system, urinary system, and reproductive system. The authors also provide practice case studies and answers.

QP31 2006-049071 978-0-443-10292-9

Physiology; a clinical core text of human physiology with self-assessment, 3d ed.

McGeown, J.G. (Master medicine)
Churchill Livingstone, ©2007 321 p. \$39.95 (pa)
Designed as an exam study guide but also useful as a reference or as a guide to further research, this clinical core text includes extensive explanatory illustrations as well as a battery of self-assessments. It covers cell physiology first, then sensibly moves through the body to include cardiovascular, renal, respiratory, gastrointestinal, digestive, neuromuscular, endocrine and reproductive systems. Each section includes boxed details on the core text, case studies, examples and imagery. The questions most closely approximate those found in UK exams, but this is still useful as a study guide for those preparing for the US versions of physiology course and board exams. The large format makes it easy to take notes in margins and to tab selected passages.

QP86 978-0-387-70856-0

Aging and chronic disorders.

Morewitz, Stephen J. and Mark I. Goldstein.
Springer, ©2007 235 p. \$49.95
Consultant Morewitz and practitioner Goldstein locate the eight chronic diseases most closely associated with old age and focus on how they affect the patient, including in terms of cost, independence and comfort. They describe the epidemiology of chronic disease in old age, the cost of health care, psychological problems associates with age, cognitive changes, and the effects of conditions from diabetes to fibromyalgia, cardiovascular disease and cancer. Although written for students and clinicians, this is accessible enough to be read by patients and caregivers.

- QP86 2006-013457 1-58829-658-X
Biological aging; methods and protocols. (CD-ROM included)
 Title main entry. Ed. by Trygve O. Tollefsbol. (Methods in molecular biology; v.371)
Humana Press Inc., ©2007 414 p. \$125.00
 Techniques and courtesies for aging are not the concern here. Rather laboratory methods and protocols used to study aging, primarily at the cellular and molecular scale, are explained by contributors identified only by name, but presumably researchers in the various sciences represented. Their topics include aging cell culture, the chronological life span of *Saccharomyces cerevisiae*, inducing cellular senescence using oxidative stress, applying DNA micro-array technology to gerontological systems, mapping genetic polymorphisms affecting natural variation in *Drosophila* longevity, and metabolomics in studying aging and caloric restriction.
- QP86 2007-005109 978-1-57331-679-8
Biogerontology; mechanisms and interventions; proceedings.
 European Congress of Biogerontology (5th: 2006; Istanbul, Turkey) Ed. by Suresh I. S. Rattan and Serif Akman. (Annals of the New York Academy of Sciences; v.1100)
Blackwell Publishing, ©2007 565 p. \$145.00 (pa)
 Rattan (molecular biology, U. of Gustav Weids, Denmark) and Akman (biochemistry, Gülhane School of Medicine, Turkey) present this proceedings from the 5th European Congress of Biogerontology (Istanbul, 2006). Sixty-one contributions address, among other things, biological and nonbiological factors affecting life span and quality of life, ethical and social issues related to life- and health-span extension; physiological, cellular, and molecular aspects of aging; new technologies; successful approaches in the prevention and treatment of age-related diseases; and aging intervention, prevention, and modulation by genes, natural and synthetic molecules, and lifestyle modifications. This volume contains an author index only.
- QP113 2006-008866 1-58829-352-1
Cardiac gene expression; methods and protocols.
 Title main entry. Ed. by Jun Zhang and Gregg Rokosh. (Methods in molecular biology; v.366)
Humana Press Inc., ©2007 365 p. \$99.50
 Biological researchers detail both new and established laboratory methods for investigating changes in gene expression in the heart. Their topics include the serial analysis of gene expression as a tool to analyze the cardiac transcriptome, *in situ* hybridization to study the localization of cardiac gene expression, mapping transcriptional start sites and *in silico* DNA footprinting, and lentivirus-mediated gene expression.
- QP141 2007-922480 0-495-11769-2
Nutrition now, 5th ed. (workbook included)
 Brown, Judith E.
Wadsworth Publishing Co., ©2008 — p. \$99.95 (pa)
 This update of the 2005 edition by Brown (emerita, U. of Minnesota) incorporates more recent information about the role of nutrition in health and disease, new concerns about obesity, and revised food composition and US and Canadian dietary intake recommendations. The 33 units, on topics ranging from understanding food labels to global nutrition challenges, include review questions with an answer key. The companion 218-page “interactive learning guide for students” (ISBN 0-495-38307-4), by Brown and Jennifer Koslo (Glendale Community College), contain worksheets for text exercises and practice multiple-choice tests with an answer key.
- QP141 2007-920597 978-0-495-11686-8
Understanding nutrition, 11th ed. (does not include CD-ROM or web access)
 Whitney, Ellie and Sharon Rady Rolfes.
Wadsworth Publishing Co., ©2008 720+ p. \$118.95
 Now in its 11th edition, this text presents core material for an introductory nutrition course. Early chapters look at nutrients and their work in the body, and later chapters apply that information to peoples’ lives, describing the role of foods and nutrients in energy balance and weight control, in physical activity, in the life cycle, in disease prevention, in food safety, and in hunger. Learning features include boxes on controversial topics, margin definitions, key points, calculation exercises, Web links, and study questions. A section of 10 appendices, about 200 pages long, provides primers on cells and hormones, basic chemistry, biochemical structures and pathways, and nutrition assessment, and supplies tables and charts on nutrition requirements and guidelines. Whitney is the author of numerous college textbooks on nutrition and health. Rolfes is a member of the American Dietetic Association.
- QP144 2007-006467 978-1-57444-445-2
Anti-angiogenic functional and medicinal foods.
 Title main entry. Ed. by Jack N. Losso et al. (Nutraceutical science and technology; 6)
CRC / Taylor & Francis, ©2007 715 p. \$179.95
 Angiogenesis entails the growth of new blood vessels, which can either serve a role in disease pathogenesis (e.g., tumor growth) or healing. Losso (food science, Louisiana State U. Agricultural Center, Baton Rouge) notes that research on angiogenesis has attracted food scientists as well as molecular biologists, biomedical researchers, and others to this new field focusing on bioactive compounds that can serve as the basis for anti-angiogenic drugs or functional foods. In 33 chapters, international contributors review recent advances regarding such compounds (e.g., in berries, green tea, probiotics); their applications in several countries for specific medical conditions; and the mechanisms by which they inhibit pathological angiogenesis. Most controversial is the use of shark cartilage powder as an anti-cancer agent.
- QP144 2006-021108 978-0-8493-2828-2
Handbook of dairy foods and nutrition, 3d ed.
 Miller, Gregory D. et al.
CRC / Taylor & Francis, ©2007 407 p. \$109.95
 The three authors (nutrition, U.s of Illinois and Chicago and Cornell U.), all representing the National Dairy Council, present nine updated chapters considering benefits of milk and other dairy products to a variety of health conditions and normal functions. Topics include the importance of milk and milk products in general diet; its contributions to health throughout the lifecycle; and its positive effects on cardiovascular health, hypertension, cancer, bone and oral health, and healthy weight. One chapter examines lactose digestion problems, distinguishing lactose maldigestion from intolerance and discussing management solutions.
- QP251 2007-001667 978-1-57331-673-6
Reproductive biomechanics.
 Title main entry. Ed. by David Elad and Roger C. Young. (Annals of the New York Academy of Sciences; v.1101)
Blackwell Publishing, ©2007 528 p. \$145.00 (pa)
 This volume of the *Annals of the New York Academy of Sciences* is the result of a meeting called Reproductive Biomechanics Track of the 5th World Congress of Biomechanics, held in July and August of 2006 in München, Germany. It contains 30 papers drawn from the meeting on topics relating to reproductive bioengineering: nonpregnant uterine eristalsis, myometrial contractility and calcium transport, mechanics of the uterus and cervix in pregnancy, placental vasculature and blood flow, mechanics of the pelvic floor and embryonic development, penile mechanics and hemodynamics, and sperm propulsion. The index lists contributors only; they work in the fields of medicine, physiology, pharmacology, and bioengineering and are based around the world.
- QP301 2006-025277 978-1-57444-906-8
Biomechanics and exercise physiology; quantitative modeling, 2d ed.
 Johnson, Arthur T.
CRC / Taylor & Francis, ©2007 663 p. \$119.95
 In this resource for bioengineers, exercise physiologists, and related professionals, Johnson explains how physiological material such as exercise thermal response can be quantitatively predicted. He also describes how this mathematical information may be applied in such areas as equipment design and the development of athletic training procedures. Coverage is broad in scope, and includes respiratory, cardiovascular, and thermal models. Homework problems have been added for the second edition. An engineer by profession, Johnson (affiliation not cited) is also the author of *Biological Process Engineering*.
- QP301 2006-014206 978-1-4051-3515-3
The musculoskeletal system at a glance.
 Bulstrode, Christopher and Catherine Swales. (At a glance series)
Blackwell Publishing, ©2007 100 p. \$29.95 (pa)
 This brief reference for clinicians and students provides the core curriculum in rheumatology, orthopedics, and trauma as related to the musculoskeletal system, outlining essential information on anatomy, physiology, pathology, and clinical management of diseases and dysfunctions. Forty-one topics are addressed in two-page chapters accompanied by illustrations. These topics include: calcium homeostasis and bone metabolism, history and examination of the arm, joint replacement, trauma of the spine, acute joint disease, the vasculitides, sports medicine, orthopedics in the elderly, plastic surgery, burns, fractures and dislocations, and compartment syndrome. The book concludes with self-assessment case studies.

- QP303 2006-049638 0-443-10282-1
An introduction to biomechanics of sport and exercise.
 Watkins, James.
Churchill Livingstone, ©2007 286 p. \$49.95 (pa)
 Watkins (sports science, Swansea University, UK) covers linear and angular motion, work, energy, and power, fluid mechanics, and biomechanical analysis of human movement in this text for undergraduate students in sport and exercise science. Content is based on fundamental concepts of force and Newton's laws of motion, work, and energy, but no previous knowledge of mechanics is assumed, and all biomechanical concepts are explained from first principles. Pedagogical features include key points, review questions and explained answers, and a separate section of practical worksheets for experiments, with objectives, notes on location and equipment, detailed instructions, and example results. While designed primarily as a text for undergraduate students of sport and exercise science, the book will also be useful to physical education teachers, sports coaches, fitness trainers, sports therapists, and undergraduates in physiotherapy, occupational therapy, and podiatry.
- QP355 978-0-87893-548-2
Neurons in action; tutorials and simulations using NEURON, version 2. (CD-ROM included)
 Moore, John W. and Ann E. Stuart.
Sinauer Associates, ©2007 151 p. \$39.95 (pa)
 Intensively interactive and no doubt blessed by the spirit of the squid who provided the original giant axon, this set simulates laboratory simulations in neurophysiology. With new tutorials introducing the channel types, single channel simulations and a redesigned interface, this version's moving graphs illustrate nerve functions in ways not possible with static methods. Students work through simulations of stationary signals including equilibrium potentials, voltage clamping in a path and those at the neuromuscular junction and signals that move, including the axon with or without myelin. Advanced tutorials cover more stationary signals, signals that navigate and cell phenomenon. Each simulation includes images and calculations as well as interactive text, and the workbook provided also gives readers a preview of what they will see and instructions on getting started.
- QP356 2006-036487 0-8493-3818-2
Brain aging; models, methods, and mechanisms.
 Title main entry. Ed. by David R. Riddle. (Frontiers in neuroscience)
CRC / Taylor & Francis, ©2007 384 p. \$149.95
 As Riddle (neurobiology and anatomy, Wake Forest U. School of Medicine, Winston-Salem, NC) notes in introducing the volume's 15 chapters, studies of brain aging have come of age as life expectancies increase. International neuroscientists present an overview of selected current research and future directions in this area, including conceptual models of mechanisms, experimental methods and findings. Like aging, aging studies are not for wimps. E.g., a major challenge is distinguishing changes due to normal aging from the effects of aging-related pathologies and stress. Dietary and supplementary antioxidants hold promise for reversing the effects of oxidative stress on the brain. Color plates of brain images show age-related cognitive decline and the reversal effects of dietary strategies.
- QP360 2007-009020 978-0-87893-705-9
Biological psychology; an introduction to behavioral, cognitive, and clinical neuroscience, 5th ed.
 Breedlove, S. Marc et al.
Sinauer Associates, ©2007 609+ p. \$114.95
 Featuring a wealth of full-color illustrations, this textbook introduces undergraduates in psychology and related fields to the biological underpinnings of human behavior. Its broad coverage includes the nervous system, sensory perception, biological rhythms, psychopathology, and the neural mechanisms of learning and memory. Optional advanced topics are available for study on a companion website, along with quizzes, chapter outlines, and animated tutorials.
- QP360 2005-034758 978-0-19-517761-9
Neuroergonomics; the brain at work.
 Title main entry. Ed. by Raja Parasuraman and Matthew Rizzo. (Oxford series in human-technology interaction)
Oxford U. Press, ©2007 430 p. \$89.95
 Neuro-ergonomics builds on neuroscience, human factors psychology, and engineering to enhance the understanding of brain function and behavior in the complex tasks of everyday life. Practitioners in this new field, almost all in the US, offers an overview of it, discussing such aspects as event-related potentials, cerebral hemodynamics and vigilance, sleep and circadian control of neuro-behavioral functions, neural engineering, artificial vision, and medical safety.
- QP360 2007-920598 978-0-495-00376-2
Principles of neuropsychology, 2d ed.
 Zillmer, Eric A. et al.
Wadsworth Publishing Co., ©2008 574 p. \$118.95
 The three editors (all: neuropsychology, Drexel U., Pennsylvania) update their substantial introduction to neuropsychology appropriate for advanced undergraduates and above. An emphasis on behavioral function emerges in chapters discussing topics that include: the history of neuropsychology; methods of investigating the brain; assessment and diagnosis; the functioning brain (encompassing neurons, cerebral specialization, somatosensory and memory systems, and vision and language, among other components); and disorders of the brain, including those related to childhood development, learning, cerebrovascular conditions, traumatic head injury, aging and dementia, and alternations of consciousness. Abundant real-life examples and critical thinking questions are included.
- QP361 2005-053766 978-0-443-07179-9
The nervous system.
 Michael-Titus, Adina et al.
Churchill Livingstone, ©2007 371 p. \$31.95 (pa)
 More detailed than many a cadaver, this well-illustrated reference is valuable for students as well as for practitioners who may be experiencing senior moments or battle fatigue. The format allows readers to take on the central nervous system in layers and by function, so they can track where signals go more efficiently. The explanatory material is concise, allowing students and practitioners to locate just what they need and refer to other sources for more textual information. The reference sections are also brief but provide standard and even some leading-edge materials, so this can serve as a "first contact" research tool. The illustrations are also large enough to keep fumbling and hunting down to a minimum, and although the volume is desktop-sized rather than suitable for every lap, it can serve as a desk reference or portable refresher for those requiring larger and more detailed illustrations to study.
- QP376 2006-038336 978-1-4051-3694-5
Making up the mind; how the brain creates our mental world.
 Frith, Chris.
Blackwell Publishing, ©2007 234 p. \$64.95
 Countering the view that real scientists don't study the mind, neuropsychologist Frith (U. College London) explains how new imaging techniques are making feasible scientific study of the living brain's mental activities. Drawing from experimental psychology, work with patients, and information science, he describes in a fairly accessible style how the brain constructs mental models of the world. His focus is not consciousness per se but rather how these processes occur without our awareness in creating the self, culture, and illusions. Color art and b&w images illustrate the spectrum of perceptions and their neurological correlates.
- QP376 2006-012325 978-0-8018-8481-8
The soul in the brain; the cerebral basis of language, art, and belief.
 Trimble, Michael R.
Johns Hopkins U. Press, ©2007 290 p. \$35.00
 Trimble (behavioral neurology, U. of London) shows how a study of disorders of the brain, especially neuropsychiatric disorders, can shed light on behaviors related to artistic expression and religion. Among his topics are the neuroanatomy of emotion, language and the human brain, music and the brain, and neurotheology.
- QP395 2007-010302 978-1-57331-674-3
Reward and decision making in corticobasal ganglia networks.
 Title main entry. Ed. by Bernard W. Balleine et al. (The annals of the New York Academy of Sciences, 0077-8923 ; 1105)
Blackwell Publishing, ©2007 376 p. \$145.00 (pa)
 Inspired by talks and presentations held by the Academy in June 2006 at the U. of California, Los Angeles, these articles describe this rapidly growing field of study and its possible applications. One reason for its rapid growth is that classical ideas about how humans and machines make decisions, have essentially been replaced by far more complex and heterogeneous notions and expectations. The papers here reflect this complexity, covering such topics as the multiple attributes of Pavlovian reward, time-discounted rewards in the orbitofrontal cortex and associated brain circuits, a model and its ability to reward learning and decisionmaking, brain coding of reward episodes, reward-related responses in the human striatum, integration of cognitive and motivational information, the role of the dorsolateral prefrontal cortex, basal ganglia mechanisms of eye movement, receptor theory and biological constraints, and what response rates tell us about dopamine and motivation.

QP399 2004-023816 978-0-19-517764-0

Broca's region.

Title main entry. Ed. by Yosef Grodzinsky and Katrin Amunts.
Oxford U. Press, ©2006 419 p. \$89.50

Psychiatry, neurology, language, and computer science are among the disciplines represented by contributors as they synthesize current knowledge about a part of the brain associated with language. Of the 27 studies, 16 are revised from presentations to a June 2004 conference in Juelich, Germany; the rest are historical articles that trace understanding of links between language and the brain from the middle of the 19th century to 1976.

QP406 2006-032885 978-0-8493-9070-8

Neural plasticity and memory; from genes to brain imaging.

Title main entry. Ed. by Federico Bermúdez-Rattoni. (*Frontiers in neuroscience*)

CRC / Taylor & Francis, ©2007 339 p. \$149.95

In the 1950s, Rosenzweig (one of the contributors) by chance found that an enriched environment could positively affect rats' neurons; this finding radically altered views of brain plasticity and offered hope for therapy. This collection of 15 chapters by international neuroscientists, edited by Bermúdez-Rattoni (U. Nacional Autónoma de México), constitutes an up-to-date review of study of the neurobiology of memory. The opening chapter overviews 150 years of research on memory consolidation, with an emphasis on the conceptual and methodological challenges in studying the phenomenon at the cellular and systems levels. Subsequent chapters present experimental data on how specific mechanisms involved in learning, stress, emotionally-arousing experience, diseases, aging, and sex differences influence memory formation, re-consolidation, and impairment.

QP447 2005-013750 978-0-19-516964-5

Perceptual coherence; hearing and seeing.

Handel, Stephen.

Oxford U. Press, ©2006 469 p. \$89.95

Handel (emeritus, psychology, U. of Tennessee, Knoxville) has written a substantial text on the correlation between hearing and seeing in sensory perception that will be useful to the researcher as well as in the upper undergraduate- and graduate-level classroom. Maintaining a tight focus on the two senses' shared aspects throughout the discussion, Handel presents chapters on transformation from information to perception, the characteristics of auditory and visual scenes, the perception of motion, and segmentation, among other topics. Visual color and auditory timbre are treated as complementary topics in two separate chapters.

QP514 978-3-527-31150-7

Chemical biology; from small molecules to systems biology and drug design; 3v.

Title main entry. Ed. by Stuart L. Schreiber et al.

Wiley-VCH, ©2007 1205 p. \$625.00

The three volumes of this authoritative resource present up-to-date coverage in chapters that describe theoretical and practical aspects of the field. Initial chapters describe the development of theory, the use of small molecules to unravel biological mechanisms, developments in engineering control over protein function through chemistry, and the control of protein-protein interactions. Vol. 2 contains chapters that include diversity-oriented synthesis, synthesis of large biological molecules, advances in sugar chemistry, and chemical informatics. The final volume contains 13 chapters, with drug discovery, target families, and genome and proteome studies among the main topics. The volume's three editors are Schreiber (chemistry and chemical biology, Harvard U.), Günther Wess (R&D management, Johann von Goethe U., Frankfurt, Germany); and Taun M. Kapoor (chemistry, Rockefeller U.). The 99 contributors are specialists at universities and pharmaceutical companies in the U.S. and Europe; one is in Japan.

QP517 2006-030658 978-1-60021-463-9

New trends in biochemical physics research. (CD-ROM included)

Title main entry. Ed. by Sergei D. Varfolomeev et al.

Nova Science Publishers, ©2007 128 p. \$129.00

Biochemical physics, which combines biology, chemistry, and physics, was pioneered a half century ago by N. M. Emanuel, and here his students summarize recent developments in the field. Among their topics are the historical dynamics of differences in lifespan of men and women in economically developed countries, the optimized anaerobic treatment of different kinds of organic waste in a technical scale digester, and the lipid component of soybean flour during storage.

QP532 978-3-527-31312-9

Activation of small molecules; organometallic and bioinorganic perspectives.

Title main entry. Ed. by William B. Tolman.

Wiley-VCH, ©2006 363 p. \$185.00

Small molecules, such as dinitrogen and dioxygen, can be used as energy and signaling agents in biological systems. Tolman (Center for Metals in Biocatalysis, University of Minnesota) present recent work in the field, with an emphasis on newly discovered fundamental chemistry involved in metal-mediated binding and activation of small molecules. Detailed reviews by experts in chemistry and chemical engineering illustrate the diversity of metal systems used in the laboratory and in nature to capture and use small molecules, discussing both organometallic and bioinorganic perspectives. Chapters on specific small molecules cover topics including nitrogen monoxide and nitrous oxide binding and reduction, bio-organometallic approaches to nitrogen fixation chemistry, methane functionalization, catalytic hydrolysis, and carbonylation catalysis in the use of carbon monoxide as a chemical feedstock.

QP535 2006-101537 978-1-57331-649-1

Sodium-calcium exchange and the plasma membrane Ca²⁺-ATPase in cell function; proceedings.

International conference on Na/CA Exchange (5th: 2006: Brussels, Belgium) Ed. by André Herchuelz et al. (*Annals of the New York Academy of Sciences*; v.1096)

Blackwell Publishing, ©2007 547 p. \$140.00 (pa)

Sixty-three papers from the August 2006 conference explore the NCX and PMCA mechanisms responsible for Ca²⁺ extrusion from cells. The researchers investigate genetics and molecular processes, the detailed structure-function relationship, the fine regulatory mechanisms, the physiological roles for the different NCX and PMCA gene products, NCX knockout mice, and cardiac function. Topics include a kinetic model of ionic and metabolic interactions, the effect of ionized calcium on protein kinase A-mediated phosphorylation, Na/Ca exchange and cardiac ventricular arrhythmias, modulation pathways of NCX mRNA stability, and the analysis of calcium changes in endoplasmic reticulum during apoptosis. No subject index is provided.

QP551 2006-100244 978-0-471-79373-1

Mass spectrometry of protein interactions.

Title main entry. Ed. by Kevin M. Downard. (*Wiley-Interscience series in mass spectrometry*)

Wiley-Interscience, ©2007 137 p. \$60.00

The 6 chapters of this volume present an authoritative state of research on this method of analysis. The mass spectrometry approaches described include electrospray ionization and ion mobility analysis, matrix-assisted laser desorption ionization, hydrogen-deuterium exchange, limited proteolysis, chemical cross-linking, and radical probe. Downard (molecular and microbial biosciences, U. of Sydney, Australia) is a specialist in protein analysis. The ten contributors are with the U. of California, Los Angeles; U. of New South Wales, Australia; U. of Naples Federico II, Italy; Martin Luther U. Halle-Wittenberg, Germany, and the U. of New Mexico Albuquerque.

QP551 2006-035452 978-0-415-38511-4

Protein purification.

Bonner, Philip L. R. (*The basics*)

Taylor & Francis, ©2007 190 p. \$59.95 (pa)

Bonner (Nottingham Trent U., UK) presents a basic biotechnology laboratory guide to various protein purification techniques, including solubility, ion exchange chromatography, hydrophobic interaction chromatography, affinity chromatography, and size exclusion chromatography. Each chapter contains diagrams, protocols, and practice exercises and includes discussion of methods used to measure the purity of samples. An introductory chapter discusses protein purification strategy and equipment.

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QP551 2007-923626 978-1-58829-702-0

Protein targeting protocols, 2d ed.

Title main entry. Ed. by Mark van der Giezen. (Methods in molecular biology; 390)

Humana Press Inc., ©2007 501 p. \$139.00

Van der Giezen (School of Biological and Chemical Sciences, Queen Mary, University of London, UK) collects protocols for isolating different organelles and localizing particular proteins, using methods such as light, confocal, and electron microscopy. Unlike the first edition, this second edition places emphasis on protein targeting to cellular compartments in both prokaryotic and eukaryotic systems. For eukaryotic systems, virtually every cellular compartment is treated. Protocols outline techniques for the import of proteins of mitochondria and plastids, the movement of protein complexes in bacterial membranes using fluorescent recovery after photobleaching, and bacterial protein targeting using the Sec-system, type-V secretion apparatus, and the Tat-pathway. A few chapters describe more generally applicable techniques. Care has been taken to include targeting protocols from different systems, including animal, plant, fungal, and protest models.

QP552 2006-021204 978-1-60021-337-3

Parvalbumin.

Permiakov, Eugene A. (Molecular anatomy and physiology of proteins series)

Nova Science Publishers, ©2007 196 p. \$89.00

The name parvalbumins—small albumins—designates the low molecular weight and the high solubility in water of the family of homologous proteins, which were long thought to be exclusive to muscle but have now been found in the brains of rats and humans, and other far corners of the biosphere. Permiakov, who is not further identified, reviews the current understanding of parvalbumin anatomy, physiology, and functions.

QP561 2006-011457 1-60021-075-9

D-amino acids; a new frontier in amino acids and protein research—practical methods and protocols.

Title main entry. Ed. by Ryuichi Konno et al.

Nova Science Publishers, ©2007 629 p. \$129.00

Sixty-eight chapters are assembled here in a collection of recent research on D-amino acids. The volume is aimed at young researchers and students looking for a general overview of advances. Konno (microbiology, Dokkyo Medical U.) et al. compile sections on the analytical methods of the detection of D-amino acids, free D-amino acids in animal tissues and their physiological role, their presence in food stuffs and their nutritional aspects, protein bound D-amino acids, and enzymes involved in synthesis and metabolism. Contributors are scientists from around the world. Grammar and spelling errors indicate that essays have not been thoroughly edited.

QP603 978-1-55753-447-7

Enzymology and molecular biology of carbonyl metabolism; 13. (CD-ROM included)

Title main entry. Ed. by Henry Weiner et al. (Series: title)

Purdue University Press, ©2007 414 p. \$324.95 (pa)

The Carbonyl Group, an international assemblage of scientists, meets every other year to share research and sniff out new trends. These proceedings of the mid-2006 meeting in Nashville, Indiana include all the papers presented, along with abstracts, references and authors' contact information. The papers represent the latest research in aldehyde dehydrogenases (including such topics as unexpected encounters in simulations of the ALDH mechanism and detoxification of chloroacetaldehyde by human class-9 aldehyde dehydrogenase), alcohol dehydrogenases (including functional roles of alcohol dehydrogenases in human ethanol metabolism and the diversity of beta-hydroxyacid dehydrogenases in plants), carbonyl reductases (including life without aldose reductase, lead optimization in the design of aldose reductase inhibitors and characterizations of a number of test animal organs).

QP606 978-1-904455-18-9

Real-time PCR in microbiology; from diagnosis to characterization.

Mackay, Ian M.

Caister Academic Press, ©2007 454 p. \$300.00

The study of polymerase chain reactions (PCRs) has proven valuable in providing both quantitative and qualitative data in all areas of microbiology. Mackay (Sir Albert Sakzewski Virus Research Centre, Australia) keeps the needs of both novices to the field and experienced users in this comprehensive handbook and reference in which he and his contributors ensure readers know how to make sure what appears to be happening really is happening. They describe the history of real-time PCR and fluorogenic chemistries, oligonucleotide design for applications, target preparation, standards and controls, quantification of microorganisms, the real role of multiplex real-time PCR in microbiology and in routine microbial diagnostics, challenges in acute respiratory tract infections and rapid detection of bioterror agents. The collection closes with a roundtable discussion featuring over 30 experts. Distributed in the US by ISBS.

QP609 2006-027439 978-0-9720774-2-2

Comparative enzymology of cholinesterases.

Moralev, Serge N. and Eugene V. Rozengart. (IUL biotechnology series; 6)

International University Line, ©2007 484 p. \$119.95

This volume surveys years of research on the comparative enzymology of cholinesterases, including Soviet and Russian work that has largely been unknown to Western audiences. The focus of the text is on the comparative studies of the substrate-inhibitor specificity of cholinesterases. In the first part of the text, the authors deal with aspects of cholinesterase specificity in substrate hydrolysis, inhibition by reversible inhibitors, and progressive inhibition by organophosphorous compounds and carbamates. In the second section of the text they describe the application of substrate-inhibitor specificity for calculation of inhibitor selectivity toward different enzymes for identification of reversible and irreversible inhibitors, as well as the use of specificity constants for molecular phylogenetic analysis of the active center of cholinesterases and esterases.

QP623 2006-038997 978-1-60021-489-9

Leading-edge messenger RNA research communications.

Title main entry. Ed. by Martin H. Ostrovskiy.

Nova Science Publishers, ©2007 248 p. \$129.00

The editor (whose professional affiliation is not given) introduces messenger RNA (mRNA) as the mediator between DNA and proteins, transferring information to a particular gene from a strand of DNA via the process of transcription. International contributors (including ones from Iran) to 15 chapters review a path-distance model of genetic code evolution; experimental data on the formerly discounted role of untranslated coding areas in gene expression; the relationship of mRNA sequence information to protein structure and gene expression; and the measurement of mRNA in new diagnostic applications, e.g., in renal diseases, birth defect-causing compounds, and inflammatory conditions. Diagrams (a couple in color) feature aspects of gene regulation and mRNA models.

QP623 2006-025264 1-933255-19-6

MicroRNAs; biology, function & expression.

Title main entry. Ed. by Neil J. Clarke and Philippe Sanseau. (The nuts & bolts series)

DNA Press, ©2007 384 p. \$65.00

Sixteen chapters review the methods and results of characterizing the function of small, noncoding RNA molecules that appear to serve as negative regulators of gene expression in plants and animals. Topics include RNA-induced silencing complex (RISC) biology, virus-encoded microRNAs, involvement in stem cell division, the miRBase database, and computational prediction of microRNA targets. The contributors are a mixture of researchers working for private laboratories, particularly GlaxoSmithKline, and public universities. Distributed by the Independent Publishers Group.

- QP624 978-1-904933-25-0
DNA microarrays; current applications.
 Title main entry. Ed. by Emanuele de Rinaldis and Armin Lahm.
Horizon Bioscience, ©2007 185 p. \$165.00
 The intention of the editors (both of the Instituto Di Ricerche Di Biologia, Molecolare P. Angelletti, Merck Research Laboratories Rome, Italy) in presenting these eight chapters is to illustrate a number of successful applications of DNA microarrays, as well as to provide guidance on the main concepts and philosophy underlying this area of biological research. Chapters discuss applications for DNA microarrays, gene networks and application to drug discovery, pathway analysis, applications of genomics technologies for the study of toxicity, microarray gene expression atlases, supervised classification of genes and biological samples, and a case study of mammary carcinogenesis in HER2 transgenic mice.
- QP624 2006-037730 978-1-58829-540-8
Microarray data analysis; methods and applications.
 Title main entry. Ed. by Michael J. Korenberg. (Methods in molecular biology; v.377)
Humana Press Inc., ©2007 273 p. \$99.50
 Microarray technologies are commonly used to examine the gene expression profiles of cells and tissues. In this volume, 16 contributions from international researchers cover a wide range of methods and applications used in the analysis of the massive amounts of data generated by microarray experiments. Sample topics include the application of regression methods to microarray data; the design of microarray time-series experiments; and the analysis of comparative genomic hybridization data on cDNA microarrays. Editor Korenberg teaches electrical and computer engineering at Queen's U. in Ontario, Canada.
- QP624 2007-000530 978-0-415-37853-6
Microarray technology through applications.
 Title main entry. Ed. by Francesco Falciani.
Taylor & Francis, ©2007 298 p. \$76.95 (pa)
 With a collection of interesting case studies and a hands-on approach, this survey of experimental and data analysis methods and techniques in microarray technology takes the needs of the novice into consideration along with the curiosity of the practitioner in applications research. Contributors start by introducing the basic concepts behind the technology and some of the applications, including glass slide DNA microarrays and microarray platforms for protein studies, then turn immediately to such applications as the genome-wide binding profile of a DNA-associated protein, array-based comparative genomic hybridization, single nucleotide polymorphism arrays, in vitro analysis of gene expression, bacterial pathogenesis, functional annotation, agricultural research, and protein microarrays. The editors include experimental protocols for manufacturing arrays, expression profiling and other applications and useful web links.
- QP624 2007-007308 978-0-8166-4998-3
The poetics of DNA.
 Roof, Judith. (Posthumanities; 2)
U. of Minnesota Press, ©2007 243 p. \$22.50 (pa)
 Roof (English and film studies, Michigan State U.) explores the fundamental ideas that have led the public to consider the double helix of DNA to stand for genes and so the mechanism by which biological information is reproduced and inherited. Looking at the deep structure of these figurations and implicit narratives, she shows what kinds of values they import, and what those values reveal about people.
- QP625 978-0-19-929918-8
Ancestral sequence reconstruction.
 Title main entry. Ed. by David A. Liberles.
Oxford U. Press, ©2007 252 p. \$100.00
 Liberles (molecular biology, U. of Wyoming) assembles 19 chapters drawn from the meeting, "Using Ancestral Sequence Reconstruction to Understand Protein Function," held in Kristineberg, Sweden, in March 2005. Following a historical and scientific overview of ancestral sequence reconstruction, the use of the technique to applications of drug design and substitutional mapping is discussed. Further chapters cover experimental methodology, and experimental synthesis of ancestral proteins, with specific topics addressing, for example, standard approaches for reconstruction, limitations and considerations, covariation or heterotacheous processes, the reference species tree and how different typologies can affect reconstructed sequences, converting sequences to proteins, and biological questions across different evolutionary depths. Contradictory views are presented to show the ongoing debates in the discipline. Contributors are scientists working around the world in fields such as genetics, biology, and bioinformatics. The volume is meant for graduate students and researchers in molecular biology and evolution, and evolutionary bioinformatics.
- QP625 2006-036861 978-0-19-530589-0
Perl for exploring DNA.
 LeBlanc, Mark and Betsey Dexter Dyer.
Oxford U. Press, ©2007 276 p. \$29.95 (pa)
 This book is for the intrepid biologist in need of just enough Perl programming language to use in the analysis of biological sequences of DNA and proteins. Emphasizing good programming practices, LeBlanc (computer science, Wheaton College) and Dyer (biology, Wheaton College) introduce Perl and outline a simplified approach to programming that is directly applicable to biological sequence analysis. Most examples focus on DNA analysis. While the book is mainly for biologists, linguists experimenting with string searching to analyze texts, and enthusiasts of anagrams and other word play, may enjoy the authors' attempts to mirror language examples with DNA examples.
- QP671 978-0-470-01672-5
The ubiquitous roles of cytochrome P450 proteins.
 Title main entry. Ed. by Astrid Sigel et al. (Metal ions in life sciences; v.3)
John Wiley & Sons, ©2007 652 p. \$325.00
 P450 proteins are represented in all life forms. Sigel (chemistry, University of Basel, Switzerland) presents 17 chapters written by 36 internationally recognized contributors, exploring the function of P450 proteins and their role in detoxification, xenobiotic metabolism, and the biosynthesis of hormones and signaling molecules. Introductory chapters examine the different levels at which P450 enzymes have diverged in the process of evolution, and overview structural and functional mimics of P450s. Later chapters detail the structures of P450 proteins and their molecular phylogeny, P450 activities in vertebrates, and electrochemical techniques for unraveling aspects of the electron transfer process of P450 enzymes. Further chapters center on mechanistic aspects, and a final chapter describes progress in the design and engineering of P450 systems for biotechnological applications.
- QP751 2006-036488 978-0-8493-9079-1
Sports nutrition; fats and proteins.
 Title main entry. Ed. by Judy A. Driskell.
CRC / Taylor & Francis, ©2007 383 p. \$99.95
 Many recreational, collegiate, and professional athletes consume more fat and protein than required to meet their needs, according to Driskell (nutrition and health sciences, U. of Nebraska). Expert contributors to 16 chapters review the types, quality, and quantity of these energy-yielding macronutrients that influence health and performance. Following an introductory chapter on athletes' balanced nutrient requirements for optimal performance, authors present in-depth profiles on particular nutrients and popular supplements, e.g., glucosamine, various amino acids. The ethics of taking performance-enhancing aids is discussed in regard to creatine. Lastly, intake guidelines are presented for different energy levels for women and men.
- QP772 2005-029457 978-1-84593-075-2
The encyclopedia of vitamin E.
 Title main entry. Ed. by Victor R. Preedy and Ronald R. Watson.
CABI Publishing, ©2007 962 p. \$300.00
 Editors Preedy (nutrition and dietetics, King's College London) and Watson (Arizona Cancer Center, U. of Arizona) assemble 88 contributions from an international roster of practitioners and researchers, who represent the array of disciplines with a stake in discoveries about vitamin E. In the first section articles focus on nomenclature, and on biochemical, physical, and chemical aspects of vitamin E-related compounds, giving overviews of antioxidant activity, free radicals, oxidative stress, and tocopherol composition of oils, and offering discussion of extraction of vitamin E from plant sources, commercial extraction from food sources, and interactions with biomembrane models, among other topics. Subsequent sections are devoted to dietary and nutritional influences and general effects; cocktails, antioxidant mixtures, and novel analogues; brain, neurological, and optical systems; reproductive systems, the fetus, and the infant; musculo-skeletal systems and exercise; skin; immune and hematological systems; and cancer. Each article begins with an abstract and explanation of abbreviations, and ends with extensive references.

QP801 978-3-527-31563-5
Foldamers; structure, properties, and applications.

Title main entry. Ed. by Stefan Hecht and Ivan Huc.
Wiley-VCH, ©2007 434 p. \$200.00

Foldamers (synthetic oligomers with distinct conformational preferences) are important in both molecular and supramolecular chemistry. Hecht (organic chemistry and functional materials, Humboldt University, Germany) and Huc (European Institute of Chemistry and Biology) introduce the topic of foldamers and provide in-depth accounts of various aspects of interest to specialists. The first part of the book concentrates on structure and foldamer design concepts, while the second part covers the use of conformational control to create chemical entities with beneficial functions in biology and materials science. All four families of foldamers are covered: foldamers based on local conformational preferences, those based on remote intrastrand interactions, those based on solvophobic effects, and foldamer hybrids. The book will be of interest to academic and industrial researchers and graduate students in chemistry.

QP801 2006-038801 978-0-8493-3977-6
Serotonin receptors in neurobiology.

Title main entry. Ed. by Amitabha Chattopadhyay. (Frontiers in neuroscience)
CRC / Taylor & Francis, ©2007 206 p. \$139.95

Information about the characteristics and functions of serotonin receptors relating to neurobiology, as well as about methods for studying them are provided by researchers in a range of biological specialties. Their topics include the quantitative imaging of serotonin auto-fluorescence with multi-photon microscopy, identifying novel transcriptional regulators in the nervous system, and using mice with targeted genetic inactivation in the serotonergic system to study anxiety.

MICROBIOLOGY

QR41 2007-001581 978-0-87893-685-4
Microbial life, 2d ed.

Staley, James T. et al.
Sinauer Associates, ©2007 1066 p. \$139.95

Complete with summaries, review questions and chapter references, this foundation text also includes laboratory photographs and comprehensive diagrams. The team of authors cover the scope of microbiology, including the role of microbial life in evolution and the biosphere; microbial physiology in terms of nutrition and growth; metabolism; biosynthesis and the role of microbes in degradation; genetics, including genetic exchange; basic virology; microbial evolution and diversity; microbial ecology, including human host and microbe interaction; immunology and medical microbiology; and applied microbiology, including industrial microbiology and applied environmental microbiology. This edition includes new research, chapter summaries and section highlights.

QR46 2007-060371 978-1-55581-402-1
The microbiology bench companion.

Miller, J. Michael.
ASM Press, ©2007 120 p. \$39.95 (pa)

Students new to the lab and professionals who need to review or brush up on standards and procedures will find this a comprehensive reference with some of the features of a quick guide or refresher. Organized to follow how researchers generally work in the lab, the entries here include sufficient theory to make the procedures make sense, while focusing on practical matters such as preparing specimens, using imagery from that available in traditional microscopes to newer tomography methods, analyzing images, collecting and analyzing data, developing reports and following occupational and industrial safety standards. The references are up to date, not an easy accomplishment considering the volatility of technologies in this field.

QR69 2007-005182 978-0-8247-4100-6
Antimicrobial susceptibility testing protocols.

Title main entry. Ed. by Richard Schwalbe et al.
CRC / Taylor & Francis, ©2007 414 p. \$149.95

A significant number of drug-resistant strains of microorganisms seems to be showing up in the clinic and laboratory with more crowning the horizon. This volume gives the front line soldiers a range of sophisticated tools in the form of an integrated resource of lab-based techniques and other methods of detecting and countering drug resistance. Eighteen articles give an overview of the Clinical and Laboratory Standards Institute and its work in antimicrobial susceptibility tests, then focus on antimicrobial classification, disk difference tests and gradient methodologies, macro- and micro-dilution methods, automated systems, agar dilution tests, systematic data collection and analysis, anaerobe antimicrobial testing, antifungal susceptibility testing of yeasts and filamentous fungi, testing of mycobacteria, synergy testing, time-kill curves, population analysis, serum bactericidal testing, bioassay methods, molecular methods for bacteria strain typing, pharmacy and microbiology, interactions between clinicians and the microbiology library, and the development of new antimicrobial agents.

QR82 978-1-904455-12-7
Bacillus; cellular and molecular biology.

Title main entry. Ed. by Peter Graumann.
Caister Academic Press, ©2007 454 p. \$300.00

According to Graumann (Institut für Mikrobiologie, U. Freiburg, Germany), research on the prokaryote *Bacillus subtilis* has been at the forefront of bacterial molecular biology and cytology, and the organism is a model for differentiation, gene/protein regulation, and cell cycle events in bacteria. He presents this volume as both an overview of recent research on *B. subtilis* and an explanation of the major cytological aspects of a bacterium. The volume's 12 chapters discuss replication of the chromosome, dynamics of DNA double-strand break repair, chromosome segregation, cell division, organization of transcription and translation, RNA-mediated regulation, general and regulatory proteolysis, the actin-like cytoskeleton, the membrane proteome, the cell wall, genomics and cellular biology of endospore formation, and multicellularity and cellular social behavior. Distributed in the US by ISBS.

QR82 2006-933007 1-58603-665-3
Molecular biology of spirochetes; proceedings.

NATO Advanced Research Workshop on Molecular Biology of Spirochetes (2005; Prague, Czech Republic) Ed. Felipe C. Cabello et al. (NATO science series; series I, Life and behavioural sciences; v.373)
IOS Press, ©2006 400 p. \$146.00

Spirochetes produce diseases such as Lyme borreliosis, syphilis and leptospirosis. Such diseases cause untold misery and death around the world, and the numbers of infections are rising, particularly in areas where timely and sufficient treatment is not always available. This December 2005 workshop on the structure of spirochetes was sponsored by the NATO Programme for Security through Science along with institutions of public health in the US and the Czech Republic with participation from NATO countries in North America and Europe. Contributors offer their research in the molecular genetics of spirochetes (including the isolation and characterization of isogenic mutants, motility gene regulation and chemotaxis and development of treponeme genetic systems), genetics and diversity (including comparative genetic studies and those of genotypic variation), gene expression, and interactions of spirochetes and hosts, including Lyme disease and relapsing conditions.

QR100 2006-053040 0-8493-3541-8
Fundamentals of biofilm research. (CD-ROM included)

Lewandowski, Zbigniew and Haluk Beyenal.
CRC / Taylor & Francis, ©2007 452 p. \$129.95

As in so many cases, the potential of biofilm outstrips the tools researchers need to realize that potential. This uses process analysis, engineering systems, recent successful biofilm applications and mathematical modeling to develop a system of compatible tools and measurements designed to be used across the field in achieving reproducible results, aligning research, ease communication and implement suitable procedures to interpret meaningful results. The authors introduce the range of present biofilm research and its strategies, then describe laboratory biofilm reactors and their applications, sensors useful in biofilm research, the construction of microsensors and their instrumentation and calibration, methods of quantifying biofilm structure, interpreting results of studies using the model of stratified biofilms, and conducting experimental protocols and procedures.

QR100 2006-034637 978-1-55581-379-6
Manual of environmental microbiology, 3d ed.

Title main entry. Ed. by Christon J. Hurst et al.
ASM Press, ©2007 1293 p. \$159.95

Divided into 8 sections, the 101 chapters of this reference describe microorganisms in natural environments. Seventeen initial chapters present an introduction and general methodology. Introductory chapters are also provided at the beginning of each of the sections, providing overviews of the current research in the fields of water microbiology as it relates to public health (by editor-in-chief Hurst—biology, Xavier U., Cincinnati and engineering, U. del Valle, City U. Meléndez, Santiago de Cali, Colombia); aquatic microbial ecology (by Meredith A.J. Hullar, another editor; she's at the Fred Hutchinson Cancer Research Center in Seattle); soil, rhizosphere, and phyllosphere (by David A Lipson—biology, San Diego State U.); issues in subsurface and landfill microbiology; aerobiology; and biotransformation and biodegradation. The volume will be invaluable to those in fields that include disease, water and wastewater treatment, and biotechnology.

QR100 2006-102166 978-1-55581-422-9
Physiology and biochemistry of extremophiles.

Title main entry. Ed. by Charles Gerday and Nicolas Glansdorff.
ASM Press, ©2007 429 p. \$129.95

Biological and earth scientists explore how creatures—mostly microorganisms—can thrive in extreme hot, cold, salty, acid, alkali, and pressure. Their topics include functional genomics in thermophilic microorganisms, whether Lake Vostok and the subglacial lakes of Antarctica host life, molecular adaptation to high salt, mechanisms to tolerate metal and acid toxicity, and environmental and taxonomic biodiversity of gram-positive alkaliphiles. Other chapters look at the search for life in the universe, extremophiles as biocatalysts for industrial biotechnology, and lessons for early evolution and border conditions of life.

QR111 2005-035315 978-1-84593-062-2
Molecular approaches to soil, rhizosphere, and plant microorganism analysis.

Cooper, J. E. and J. R. Rao.
CABI Publishing, ©2006 297 p. \$150.00

Microbial ecologists from Europe, the US, and New Zealand critique many of the molecular techniques that are currently used to study soil and plant micro-organisms at the community, population, taxonomic, and functional group levels. They do not provide a bench manual, but do provide technical information on polymerase chain reaction sequences and experimental protocols. Among their topics are meta-genomics for studying soil microbial communities, and transcriptomics for determining gene expression in symbiotic root-fungus interactions.

QR177 2007-002039 978-1-55581-303-1
Enzyme-mediated resistance to antibiotics; mechanisms, dissemination, and prospects for inhibition.

Title main entry. Ed. by Robert A. Bonomo and Marcelo Tolmasky.
ASM Press, ©2007 357 p. \$129.95

There are several mechanisms by which bacteria acquire immunity to antibiotics, but the European and North American scientists here focus on those that are mediated by enzymes. In particular, they look at the enzymatic capabilities of micro-organisms to introduce chemical modifications that negate the biological activity of beta-lactams or aminoglycoside antibiotics. They consider enzymes that defend the bacterial ribosome and cell wall, novel approaches and future prospects for disarming the defense mechanisms, and the dissemination of antibiotic resistance and its biological cost.

QR177 2006-018903 1-60021-298-0
Multidrug resistance-associated proteins.

Title main entry. Ed. by Christopher V. Aiello.
Nova Science Publishers, ©2007 251 p. \$129.00

As more drug-resistant strains of disease come to light, researchers are scrambling to find alternatives while trying to keep up with the latest research of others in the field. This collection of nine papers describe that research with a number of studies, covering the role of glutathione in the function and gene regulation of GS-X pump and multi-drug resistance proteins, gene-messenger RNA in gliomas by means of realtime RT-PCR, predictions of therapeutic responses to chemotherapy and monitoring of effects of MDR-modulation with radiotracers in malignant tumors, proteins associated with multi-drug resistance and their profiles in childhood and adult cancer and efflux of organic anions at the blood-brain and blood-cerebrospinal fluid barriers, the role of proteins with multi-drug resistance in neurological disease, neurofilaments as the central core of axonal damage in multiple sclerosis, pseudoxanthma elasticum's move toward possible functions and an herbal alternative for cholestatic liver disease.

QR180 978-0-8243-3025-5
Annual review of immunology; v.25, 2007.

Title main entry. Ed. by William E. Paul et al.
Annual Reviews, ©2007 880 p. \$216.00

The 26 contributions in this annual collection summarize recent research results in a specific area of immunology. The 2007 edition examines the impact of glycosylation on the biological function of human immunoglobulins, the immunobiology of allogeneic hematopoietic stem cell transplantation, and immunosuppressive strategies employed by tumors to evade T cell responses. Other topics include natural killer T cells, mucosal dendritic cells, severe acute respiratory syndrome (SARS), the structural basis of integrin regulation and signaling, and the functional mapping of stromal signaling microenvironments in the thymus.

QR184 978-0-470-02755-4
Decoding the genomic control of immune reactions.

Title main entry. (Novartis foundation symposium; 281)
John Wiley & Sons, ©2007 218 p. \$160.00

Judging from this collection of reports on recent research, great progress is being made toward using the genome sequences of humans, mice and other vertebrates to solve key problems in immunological disease and chronic infections. However, researchers are finding a barrier in the identification of key sequences and circuits controlling the relevant immune reactions. Drawn from material presented at the Novartis Foundation Symposium entitled "Decoding the Genomic Control of Immune Reactions" held in Canberra in March 2006, this collection covers transcriptional regulatory networks in macrophages, molecular pathways and their role in human disease, specifying the patterns of immune cell migration, human monogenic disorders and their relationship with specific infections, the genetic control of susceptibility to a strain of tuberculosis, disorders resulting from defective LAT signalosomes, smallpox and mousepox, strategies for phenotype detection and subsequent mapping and cloning, genetic control of host-pathogen interactions, systems genetics, and regulation of the immune system.

QR185 2006-037447 978-1-4160-3122-2
Cellular and molecular immunology, 6th ed.

Abbas, Abul K. et al.
Elsevier Health Sciences, ©2007 566 p. \$72.95 (pa)

For this sixth edition of the text, Abbas (pathology, University of California-San Francisco) offers extensive revisions incorporating new discoveries in immunology. The text focuses on the experimental observations that form the basis for the science of immunology at the molecular, cellular, and whole-organism levels, and the conclusions that can be drawn from these observations. Emphasis is on the clinical relevance of material. The art program features color photos, micro-images, and explanatory diagrams. Learning features retained from previous editions include chapter summaries, presentation of experimental results in bulleted lists, and boxes on experimental approaches, disease entities, and selected molecular or biological processes.

QR185 2006-026776 978-1-58829-467-8
Cytokines in human health; immunotoxicology, pathology, and therapeutic applications.

Title main entry. Ed. by Robert V. House and Jacques Descotes.
(Methods in pharmacology and toxicology)
Humana Press Inc., ©2007 366 p. \$140.00

The biochemical regulating cytokines, in the words of editors House (DynPort Vaccine Company, US) and Descotes (Poison Center and Pharmacovigilance Unit, Lyon Cedex, France), "facilitate the initial recognition of foreignness that launches innate host defenses, they form the bridge that allows a nonspecific response to mature into an antigen-specific acquired immune response, and they maintain this response for the life of the individual." In recognition of this importance of cytokines to the field of immunotoxicology, they present 16 chapters reviewing aspects of how modulation of cytokines can affect human health. Opening chapters introduce the basic biology of cytokines, methods for measuring cytokine activity, and the basics of how differential cytokine modulation determines types of immune response. Later chapters review preclinical understandings of how cytokines function in chemical allergy, lung toxicity, and drug abuse, as well as methods for assessing cytokine immunotoxicity. Remaining chapters address beneficial and adverse effects of cytokines as therapeutic agents.

QR188 2006-024123 1-58829-652-0

Immunological tolerance; methods and protocols.

Title main entry. Ed. by Paul J. Fairchild. (Methods in molecular biology; v.380)

Humana Press Inc., ©2007 477 p. \$159.00

According to Fairchild (Sir William Dunn School of Pathology, U. of Oxford, UK), advances in the understanding of immunological tolerance raise the prospect of reestablishing a state of self-tolerance in the face of progressive autoimmunity and also suggest the possibility for avoiding the need for immunosuppression in order to treat transplant rejection. He presents methods and protocols for culturing and characterizing the cell types responsible for imposing self-tolerance and the experimental models employed to study their function in vitro and in vivo. Also discussed are methods for inducing and breaking immunological tolerance.

QR201 2007-005113 978-1-57331-690-3

Biology of emerging viruses; SARS, avian and human influenza, metapneumovirus, Nipah virus, West Nile, and the Ross River virus.

Title main entry. Ed. by Sunil K. Lal. (Annals of the New York Academy of Sciences; v.1102)

Blackwell Publishing, ©2007 148 p. \$125.00 (pa)

They have come and gone since the beginning of time and few people knew or cared much about them. Now we know more about what they can do, the devastation they can cause, and the cost in human life and well-being. This collection from the April 2005 meeting titled "Emerging Viral Infectious Diseases" in Hanoi details the viruses causing the most concern and acknowledges the role of globalization in the initiation and spread of viruses to which humans are vulnerable. They note that whole economies, particularly those of developing countries, can collapse or be irretrievably impaired by the onset of a pandemic or suspicion that one may be coming. Each of the papers focuses on a different strain, and includes recent findings about the virus at the molecular level, indicators of progress and current efforts to medically eradicate or control the virus in question.

QR201 2006-100552 978-1-55581-393-2

HIV and the pathogenesis of AIDS, 3d ed.

Levy, Jay A.

ASM Press, ©2007 644 p. \$99.95 (pa)

Levy (medicine, Laboratory for Tumor and AIDS Virus Research and Cancer Research Institute, U. of California, San Francisco), who was one of the first to identify the AIDS virus, provides a volume for students, researchers, clinicians, and health care providers on HIV and AIDS. It covers features of AIDS pathogenesis, including aspects of HIV-1 and HIV-2 isolates involved; transmission and replication; the cells infected and consequences on tissues and organ systems; the host immune response; therapy; HIV infection and the development of cancer; and approaches to a vaccine for prevention. For this edition, new research is cited in each chapter, and discussion of the identification of genetic markers has been expanded. Other topics reflecting recent advances that have been expanded or are new include viral latency, innate immunity and prevention, and vaccine development. The reference section lists almost 5,000 sources.

QR201 2007-000412 978-0-8247-5750-2

Listeria, listeriosis, and food safety, 3d ed.

Title main entry. Ed. by Elliot T. Ryser and Elmer H. Marth. (Food science and technology; 160)

CRC / Taylor & Francis, ©2007 873 p. \$189.95

This third edition of a reference on listeriosis summarizes much of the literature published since 1999 to present a current overview of food-borne listeriosis. This third edition contains two new chapters on risk assessment, regulatory control, and costs of outbreaks, and on data gaps and future directions for research. Coverage encompasses the growth and survival of *Listeria* in foods, *Listeria*-related recalls, and contamination rates for dairy, meat, fish, poultry, egg, and vegetable products. The audience for the book includes food scientists, microbiologists, researchers, and public health practitioners. Marth was emeritus professor of food science and bacteriology at the University of Wisconsin-Madison. Ryser is affiliated with the National Food Safety and Toxicology Center at Michigan State University.

QR201 2007-010965 978-0-7864-3048-2

The origin, persistence, and failings of HIV/AIDS theory.

Bauer, Henry H.

McFarland & Co., ©2007 282 p. \$35.00 (pa)

HIV only affects an unaffected person through unprotected sex about 1 out of every 1000 times it could, says Bauer (chemistry and science studies, Virginia Polytechnic Institute and State U.). This is one of the many corrections he seeks to make to conventional wisdom on HIV/AIDS, compiling research from diverse sources to take issue with some of science's most widely accepted theories regarding the diseases. He discusses the correlation between HIV and race, examines the effectiveness of HIV testing, and posits that a research monopoly has resulted in widespread misconceptions—among which is the unproven fact that HIV leads to AIDS. Material may be of interest to undergraduates and above interested in policy and theory issues in HIV/AIDS research.

QR201 978-1-904933-26-7

Salmonella; molecular biology and pathogenesis.

Title main entry. Ed. by Mikael Rhen et al.

Horizon Bioscience, ©2007 194 p. \$179.00

Salmonella enterica remains a major health problem in both the industrialized and the non-industrialized world, but the microbiologists and other researchers here focus on how the bacteria continues to be used as a laboratory model for understanding basic biology, evolution, the host-pathogen interaction, and other matters that could lead not only to increased general scientific knowledge, but also to specific approaches to reduce the threat from the pathogen. One of the benefits of its use in the laboratory is the lack of interest by animal rights activists. Distributed in the US by Taylor and Francis.

QR251 2007-021766 978-1-58706-150-9

Protozoans in macrophages.

Title main entry. Ed. by Eric Y. Denkers and Ricardo T. Gazzinelli.

(Medical intelligence unit)

Landes Bioscience, ©2007 223 p. \$149.00

Macrophages are best known for their destruction of microorganisms but also their production of toxic molecules that cause the death of invading microbes along with host tissue pathology. As advances continue in basic research on the nature and structure of macrophages the pieces are starting to come together so we have a fuller idea of what goes on, one protozoa at a time. These 16 articles describe recent work on such topics as macrophage biology, invasion and intracellular survival by *Taxoplasma*, macrophages as alternative niches for intracellular growth, uncertainties brought by the study of *Leishmania* interactions in vivo, responses and cell signals in infection, pro-inflammatory responses, avoidance of innate immune mechanism by a protozoan parasite, survival strategies of macrophages, prevention of activation, and the curious behavior of effector mechanisms.

QR353 2007-007801 978-3-8055-8180-6

Wolbachia; a bug's life in another bug.

Title main entry. Ed. by Achim Hoerauf and Ramakrishna U. Rao.

(Issues in infectious diseases; v.5)

S. Karger, AG, ©2007 150 p. \$177.25

Wolbachia are Gram-negative bacteria that form intracellular inherited infections in many invertebrates, and through those invertebrates infect about 120 million people worldwide. This collection of nine new articles on Wolbachia includes a historical perspective of its relationship with arthropods and nematodes, an assessment of its significance to the evolution of nematodes, its behavior as endosymbiont and the effect on filarial nematodes and the long-term effects of the relationship, the ramifications of the Wolbachia genome sequence and the new discoveries about Wolbachia biology related to it, arthropods and their symbiotic relationship with Wolbachia, and the relationship of Wolbachia to river blindness and veterinary filariasis. The volume is well-illustrated.

QR360 2006-024124 1-58829-590-7

Glycoviropology protocols.

Title main entry. Ed. by Richard J. Sugrue. (Methods in molecular biology; v.379)

Humana Press Inc., ©2007 205 p. \$99.50

The receptivity of a host cell to a virus is in many cases largely dependent on the structure of the glycan moieties present on the cell surface, so studying the glyco-biology of viruses can reveal much about the mechanism of viral infection and replication. Here virologists and molecular biologists describe some of the strategies that are being used for such study. They limit their concern to glycoproteins, though other glycan-modified biomolecules also play a role in the processes. Researchers ranging from doctoral students to senior scientists may find the information useful.

QR372 2006-282017 1-55009-256-1

Viral and immunological malignancies. (CD-ROM included)

Title main entry. Ed. by Paul A. Volberding and Joel M. Palefsky. (Clinical oncology series) B.C. Decker, ©2006 420 p. \$149.95

Researchers in various medical disciplines report on what has been learned from the study of HIV infection about the complex relationship between immune surveillance, immune deficiency, viral infection, and human cancer and how that knowledge is being applied to other conditions. Among their topics are immune surveillance in cancer, Castelan's disease, naso-pharyngeal cancer diagnosis and management, viral hepatitis and hepatocarcinogenesis, simian virus 40 and human malignancy, and abnormalities of the coagulation system associated with HIV infection. The disk contains the complete text and illustrations.

QR396 2006-012284 978-1-58829-598-9

Adenovirus methods and protocols, 2d ed.; v.1.

Title main entry. Ed. by William S.M. Wold and Ann E. Tollefson. (Methods in molecular medicine; v.131) Humana Press Inc., ©2007 241 p. \$99.50

Adenoviruses are a valuable model for studying virology and have become recently ubiquitous in vector technology and in experimental gene therapy research. The editors (of the Department of Molecular Microbiology and Immunology, Saint Louis U. School of Medicine) intend this collection of protocols to aid new researchers wishing to conduct studies involving adenoviruses. The 18 chapters presented describe techniques for the construction of adenoviruses for use as vectors and for basic research, quality-control testing of vectors, adenovirus vectors and apoptosis, methods for determination of virus titers, sensitive assays for the presence of viral DNA in samples, quantitation of infection by detection of the expression of adenoviral proteins, and new permissive immunocompetent animal models for use in clinical applications.

QR396 2006-012284 978-1-58829-901-7

Adenovirus methods and protocols, 2d ed.; v.2.

Title main entry. Ed. by William S.M. Wold and Ann E. Tollefson. (Methods in molecular medicine; v.131) Humana Press Inc., ©2007 362 p. \$145.00

The 23 contributions in this laboratory handbook walk through methods for analysis of adenovirus transcription, splicing, RNA interference, sub-cellular localization of proteins during infection, and cell cycle effects. Topics include nucleolar localization of adenovirus core proteins, tandem mass spectrometry, the transforming activities of adenovirus oncogenes, large-scale purification and crystallization of adenovirus hexon, and phylogenetic analysis of adenovirus sequences. Originally published in 1998, the second edition has been divided into two volumes.

MEDICINE (GENERAL & PUBLIC ASPECTS)

R131 978-90-04-16075-0

Neurosis and modernity; the age of nervousness in Sweden.

Pietikainen, Petteri. (History of science and medicine library; v.2) BRILL, ©2007 391 p. \$129.00

A scholar of modern medicine and intellectual history, Pietikainen examines the history of neuroses in Swedish medicine and culture from 1880 to 1950, a hefty chunk of what he calls the Nervous Century, 1880-1980, during which so-called weak nerves throughout western culture led to a plethora of symptoms and diagnoses. The first neurological clinic opened in Stockholm in 1887, and by the end of the century, nervousness had become established as a national malady in Sweden.

R152 2007-926459 978-0-7618-3819-7

Philanthropic foundations and the globalization of scientific medicine and public health; proceedings.

Conference on Philanthropic Foundations and the Globalization of Scientific Medicine... (2003: Hamden, CT) Ed. by B.B. Page & D.A. Valone. Univ. Press of America, ©2007 195 p. \$29.95 (pa)

In introducing 15 chapters based on a conference held at their campus in 2003, Page (philosophy, health planning, Quinnipiac U., Hamden, Connecticut) and Valone (history), note that the forum focused on lessons learned about philanthropic foundations' role in treating health-related issues in the past century. In the context of historical case studies, international contributors address the agenda items of foundations' evolving role in the changing global environment, responding to such major current diseases as AIDS, conflicts between values and interests, and accountability.

R487 978-1-85315-618-2

Developing the wise doctor; a resource for trainers and trainees in MMC.

Fish, Della and Linda de Cossart. Royal Society of Medicine Pr., ©2007 221 p. \$69.00 (pa)

For postgraduate doctors who teach and learn in the clinical setting, Fish (health science, U. of Wales, Swansea, UK) and De Cossart (vascular and general surgery, Countess of Chester NHS Foundation Trust and The Royal College of Surgeons of England) offer ideas for enriching the curriculum for postgraduate medical education in the clinical setting based on the UK's project Modernising Medical Careers, which is meant to reshape the medical profession. The first section demonstrates how the national postgraduate curricula focus on the more visible and easily identified aspects of medical practice and how the authors' ideas extend this education. They then describe how teachers and learners can use resources to explore the "invisible elements of practice." These include being alert to the context of the patient case; professionalism; forms of knowledge and doctor uses; the quality of the doctor's thinking and professional judgments; the therapeutic relationship; and seeing the clinical setting in a different perspective. Each chapter in this section begins with a clinical scenario, followed by questions, a heuristic, a set of resources, commentary, and a closing scenario.

R605 2007-013071 978-0-7391-1322-6

Medicine and medical policies in India; social and historical perspectives.

Bala, Poonam. Lexington Books, ©2007 139 p. \$55.00

A willing clientele, as one of the traits of the medical profession, has played a crucial role in determining the medical market in terms of the popularity of medicine, contends Bala (history, Case Western Reserve U., Ohio and medical sociology, U. of Delhi), but the situation becomes very interesting when that clientele is disaggregated into its parts, each with a different reason for supporting medicine. She begins with the Indus Valley civilization, and works through the Hindu, Muslim, and colonial periods to the present.

R690 2006-102502 978-1-4051-5788-9

The essential guide to becoming a doctor, 2d ed.

Blundell, Adrian et al. Blackwell Publishing, ©2007 246 p. \$41.95 (pa)

The authors take aspiring doctors at all levels into account, including those just out of their undergraduate program or returning students who just cannot shake off the ambition. In brief, punchy and thoroughly practical chapters they describe the application process and admission tests, interviews, life at medical school from the first foot in the door to later years, finances, career options and training for specialization. Although written for those in the UK many of the suggestions also apply to students in the US.

R702 978-0-88920-509-3

Unfitting stories; narrative approaches to disease, disability, and trauma.

Raoul, Valerie et al. Wilfrid Laurier U. Press, ©2007 360 p. \$85.00

Once the only survival stories one could find in popular bookstores had to do with desperately manly misadventures. Now the shelves are lined with narratives written by those with deeply personal struggles with disability, illness and trauma. These articles explore the compulsion to write and read such stories. They cover the use of narratives to make sense of difference, interdisciplinary approaches, the blending of aesthetics and authenticity to reach an audience, mental illness in memoir, the role of the temporary in AIDS, anorexia as trauma, and incest as a movie idea. Academia is represented by such topics as using narratives in research and therapeutics, constructing the "different" identity, disrupting the academic self by disease, and studies of men with spinal cord injuries, while other articles take the wider view by examining polemics, serial trauma and autobiography, addiction and the concept of post-personhood.

R724 2006-036128 978-1-59031-725-9
Bioethical and evolutionary approaches to medicine and the law.

Keyes, W. Noel.

American Bar Association, ©2007 1174 p. \$179.95 (pa)

As a member of a bioethics committee at his campus, Keyes (U. of California Medical School at Orange) traces the revolution in bioethics in the context of U.S. history, healthcare financing, and ethical standards of the American Medical Association, American Bar Association, Hospital Ethics Committees, and international approaches. After defining the scope of bioethics in medicine and the law, he reviews current philosophical/Judeo-Christian religious debates over specific issues—notably beginning and end-of-life issues. The volume includes pro and con issue summary boxes; a glossary; and appended material on current environmental crises, medicine in China and Tibet today, settlements and rulings under the False Claims Act, gene therapy, and gratuitously, a chronology of Judaism and Christianity.

R724 978-0-495-09502-6
Intervention and reflection; basic issues in medical ethics, 8th ed.

Munson, Ronald.

Wadsworth Publishing Co., ©2008 791 p. \$107.95

Recent medical developments and legal decisions prompted this update of the 2004 edition. Munson (philosophy of science and medicine, U. of Missouri-St. Louis) presents standalone sections with relevant readings—including 27 new ones, case presentations, decision scenarios, and social context discussions on controversial beginning and end-of-life ethical issues encountered in medicine, the AIDS and Type II diabetes epidemics, and the gap between health care rights and resources. The foundations of bioethics section is at the end rather than the beginning of the text, perhaps to emphasize the practical nature of such decisions over the theoretical. A companion Web site is available.

R724 2007-005736 978-0-7425-4828-2
A practical guide to clinical ethics consulting; expertise, ethos, and power.

Meyers, Christopher.

Rowman & Littlefield, ©2007 115 p. \$19.95 (pa)

Meyers (philosophy, California State U., and Kern County Medical Center, Bakersfield) argues that ethics consultants need to have a philosophy-based perspective and that they must also address the concrete reality of working professionals and real-world problems. The book is based on his experiences as a clinical consultant, and his thesis is that training in theoretical and conceptual analysis skills is important, but he rejects the standard approach to clinical ethics. It is a general guide to doing ethical consulting for academics who teach the subject as well as practitioners. He discusses the need for ethical reasoning skills, political awareness, and empirical methodology, outlining a method of moral reasoning that uses theories from Tom Beauchamp and James Childress, Bernard Gert, virtue theory, and Patricia Werhane, in addition to the impact of social context in institutions. Therefore, it is not a prescription of what to do, but a general guide about skills, training, attitudes, and political sensibilities needed.

R724 2007-005968 978-1-4051-5269-3
The view from here; bioethics and the social sciences.

Title main entry. Ed. by Raymond G. De Vries et al. (Sociology of health and illness monograph series)

Blackwell Publishing, ©2007 219 p. \$39.95 (pa)

European and North American social scientists delve into the sometimes troublesome relationship between their various disciplines and bioethics. Their topics include the many meanings of care in clinical research, a Swedish case study on the social life of moral concerns in policy processes, and an new approach to the bioethical problems of infectious disease. First published as *Sociology of Health and Illness*, v.28, no.6.

R725 2006-031182 978-1-58901-157-1
Can a health care market be moral; a Catholic vision.

McDonough, Mary J.

Georgetown U. Press, ©2007 256 p. \$29.95 (pa)

McDonough (PhD, Graduate Theological Union) applies the tradition of Roman Catholic social thought, long suspicious of laissez faire capitalism, to assessment of how health care should be organized and provisioned in the United States. Both Catholic social teachings and the different ways health care is organized around the world are discussed as preliminaries, followed by critical examination of the market-based approaches to health care advocated by Milton Friedman, Regina Herzlinger, Mark Pauly, and Alain Enthoven. McDonough judges elements of these approaches to be appropriate, so long as they are balanced by the “value dimension approach” of Daniel Callahan, which is “grounded in the meaning of health, in appropriate medical goals, and in economic sustainability.”

R726 2006-938796 978-0-88937-307-5
The behavioral sciences and health care, 2d ed.

Title main entry. Ed. by Olle Jane Z. Sahler and John E. Carr.

Hogrefe & Huber Publishers, ©2007 496 p. \$49.00 (pa)

This update of the 2003 edition reflects the Institute of Medicine's affirmation of the Integrated Sciences Model, according to Sahler (U. of Rochester School of Medicine) and Carr (emeritus, U. of Washington School of Medicine). Contributors to nine sections, predominantly North American behavioral scientists and health professionals, review standard topics in behavioral medicine and new material on stress and illness, geriatric health, palliative care, health issues facing sexual minorities, health literacy, and changing risky behaviors. The text includes some 300 US Medical Licensing Exam-type review questions with an annotated answer key, recommended reading, and appendices on biostatistics and epidemiology.

R726 2007-922359 978-0-387-70874-4
Choices in palliative care; issues in health care delivery.

Title main entry. Ed. by Arthur E. Blank et al.

Springer, ©2007 23 p. \$69.95

The overall current state of palliative care in the US, as well as issues specific to certain diseases or facilities, are examined in 14 chapters written by specialists, several of whom are affiliated with the Albert Einstein College of Medicine in New York or its Montefiore Medical Center. The state of palliative care is discussed in different settings—acute care, nursing facilities, in the home, hospice—and in terms of patients with cancer, HIV/AIDS, and chronic lung and heart disease. Business planning, quality management, and ethical issues are the topics of separate chapters.

R726 2005-001704 978-0-7425-3111-6
A concise history of euthanasia; life, death, God, and medicine. (reprint, 2005)

Dowbiggin, Ian. (Critical issues in history)

Rowman & Littlefield, ©2007 163 p. \$19.95 (pa)

The history travels through shifting patterns in mortality due to disease and disability, changing technology, shifts in the practice of medicine, notions about a good death, and other factors, explains Dowbiggin (history, U. of Prince Edward Island, Canada). He describes the debate over euthanasia at the beginning of the 21st century as a bitter struggle between those calling for a right to die and those calling for a right to compassionate and effective end-of-life care.

R726 2006-047449 978-0-312-34224-1
Last rights; rescuing the end of life from the medical system.

Kiernan, Stephen P.

St. Martin's Press, ©2006 301 p. \$25.95

In this text for general readers, journalist Kiernan tackles some of the thorny issues that result from medical efforts to prolong human life. Drawing upon research in medical journals as well as interviews with patients, doctors, and families, he explains how the American experience of dying has changed in the past 30 years and suggests practical ways of improving end-of-life care. The emphasis throughout is on the value of making people's last days as peaceful and pain-free as possible.

Liberalism's troubled search for equality; religion and cultural bias in the Oregon physician-assisted suicide debates.Jones, Robert P.
U. of Notre Dame Press, ©2007 336 p. \$30.00 (pa)

Noting that debates over physician-assisted suicide divide liberal groups from normally allied disability organizations, Jones (director, Center for American Values in Public Life, People for the American Way Foundation) contends that the issue exposes critical unresolved tensions between commitments to liberty and equality that lie at the heart of contemporary American liberal theory in both its popular and philosophical manifestations. Examining the legal debates surrounding Oregon's Death with Dignity Act, he argues that liberal theorists such as Ronald Dworkin, whom he otherwise admires, are wrong to weigh in on the side of physician-assisted suicide. The cause of their error, he argues, is a failure to recognize the cultural biases that help socially determine suicide choices. This failure is connected with a failure to fully articulate the commitment to egalitarianism suggested by Dworkin's own conception of "equality of resources."

R726 978-1-84619-092-6

The psychiatry of palliative medicine; the dying mind.Macleod, A. D. (Sandy).
Radcliffe Publishing, ©2007 168 p. \$49.95 (pa)

Writing for medical and nursing practitioners working in the field of palliative medicine, Macleod (consultant psychiatrist, Christchurch Hospital and medical director, Nurse Maude Hospice, New Zealand) describes the pragmatic psychiatric issues that readers may encounter in clinical situations. Fourteen chapters cover adjustment and anxiety; psychological issues and dying; pain and psychiatry; depression; delirium; sleep, sedation, and coma; neoplasms; cognitive dysfunction and dementia; terminal neurological disorders; chronic mental illness and dying; euthanasia and psychiatry; and psychopharmacology. Published by Radcliffe Publishing, UK, and distributed in the US by BookMasters.

R726 978-1-86134-921-7

Rethinking palliative care; a social role valorisation approach.Sinclair, Paul.
Policy Press, ©2007 246 p. \$39.95 (pa)

Sinclair, a social worker who consults in palliative care and disability sectors in Melbourne, Australia, uses social role valorization theory (and is the first to do so) to discuss how palliative care should be deinstitutionalized. He argues that an alternative framework to institutional approaches needs to be developed in hospices, palliative care units, or services, and draws from wider social science perspectives in his discussion of this care, how it devalues people, and how to reconceptualize it as well as the concept of death. The framework he proposes consists of a dispersed network established within the normal communities in which people are dying live. The book is aimed at academics, students, and practitioners in palliative care, disability, social policy, sociology, social work, religion, thanatology, nursing, and other fields. Distributed in the US by ISBS.

R726 2007-001734 978-0-8166-4698-2

Treatments; language, politics, and the culture of illness.Diedrich, Lisa.
U. of Minnesota Press, ©2007 224 p. \$22.50 (pa)

When we survive cancer, or learn to live with HIV/AIDS, or get a little unexpected extra time when we have multiple sclerosis or a spinal cord injury, it seems a lot of us reach for the pen. The resulting books have been dismissed as morbid, an unnecessary and rather sick exaltation of the victim, self-promotion or, mostly, very bad writing. However, such books sell, and sell well. Diedrich (women's studies, Stony Brook U.) closely examines the texts under question and finds fascinating links to broader cultural issues that include considerations of race, gender, class and sexuality. She begins by considering mid-twentieth-century memoirs of tuberculosis, Sontag's *Illness as Metaphor*, Lorde's *The Cancer Journals* and Sedgwick's "White Glasses," tracing how they do or do not express loss. Diedrich considers how societies assume illness is loss, and argues for an ethics of failure in which we reevaluate loss as creating new possibilities.

Withholding and withdrawing life-prolonging medical treatment; guidance for decision making, 3d ed.Title main entry. Ed. by British Medical Association.
Blackwell Publishing, ©2007 126 p. \$34.95 (pa)

Presented by the British Medical Association, this volume details their ethical guidelines on withholding and withdrawing life-prolonging medical treatment for both adults and children. Both medical ethics professionals and medical and legal experts give general advice in accordance with the General Medical Council's guidelines. The volume identifies types of cases where decisions may be made; it is not meant to give definitive legal advice, but rather to explain the legal and ethical principles underlying decision making. The new edition incorporates the provisions of the Mental Capacity Act of 2005, guidance on the role of welfare attorneys, the latest policy on advance decisions about medical treatment, and an update on the impact of the Human Rights Act. It is of interest to health care professionals and lawyers. Distributed in the US by Blackwell Publishers.

R727 978-1-85775-852-8

Learning to consult. (reprint, 2006)Title main entry. Ed. by Rodger Charlton.
Radcliffe Publishing, ©2007 282 p. \$45.00 (pa)

Written by leading consultants in a variety of specialties, this basic guide for students and those who wish to expand their consulting practice includes elements many consultants of long standing often overlook, such as keeping good records and writing a prescription the patient can actually follow correctly. The 15 articles here follow the sequence of a typical consultation, starting with communications skills and stepping through history-taking, the doctor-patient relationship, the examination, problem solving and the diagnostic process, patient management, preventive care, bioethics, consultation models, aids to learning, and preparing for new exams or re-qualifying. Although written for UK consultants, the constructive advice would benefit many US physicians. US distribution is by BookMasters.

R727 2007-007397 978-1-84545-100-4

Medical identities; health, well-being and personhood.Title main entry. Ed. by Kent Maynard. (Social identities; v.2)
Berghahn Books, ©2007 162 p. \$25.00 (pa)

The identity of healers has been little studied, with the exception of spirit possession and other practices exotic to Western eyes. Anthropologists here begin the exploration in seven papers from a 2003 seminar at the University of Oxford. Among their topics are general practitioners in Britain and South Africa, Kekjom traditional doctors and an ambivalent clientele in Cameroon, and auxiliary workers in a nursing-home hierarchy.

R727 978-1-84619-150-3

The secret history of a women patient.Dent, Janet Rhys.
Radcliffe Publishing, ©2007 130 p. \$29.95 (pa)

Her life was perfect. She was a doctor, a mother, happy. Then she found the lump. Dent, whose experiences also include being a lecturer in English and a medical ethics committee member, is very honest as she moves from one emotion and perception to the other in the course of her successful treatment. She is unique in this sort of narrative in not calling herself a hero or attempting to be a mouthpiece for all patients. Instead she reflects on how her disease changed her from complacency in life to awareness of its brief beauty, how those who gathered around her made her more than whole again, and how merely surviving is not the point at all.

R727 2006-100697 978-0-8036-1339-3

What if . . . ?; survival guide for physicians.Goodspeed, Ronald B. and Bruce Y. Lee.
F.A. Davis, ©2007 309 p. \$22.95 (pa)

Goodspeed (Southcoast Hospitals Group) and Lee (University of Pittsburgh) advise how to handle unusual and challenging situations not addressed during medical school. The 71 entries discuss work confrontations, examining a deaf patient, removing foreign bodies, giving patients bad news, responding to emergencies away from the workplace, and surviving in the wild.

- R728 978-1-84619-023-0
Medical practice management in the 21st century; the handbook.
 Satinsky, Marjorie A.
Radcliffe Publishing, ©2007 192 p. \$59.95 (pa)
 Running a medical practice has always had its own set of challenges, some of which become particularly acute when most practitioners do not receive a molecule of business training in medical school, internship or residency. Physicians must manage a business, understand finance, recruit and work with people in and out of the practice, constantly improve healthcare delivery and clinical outcomes, ensure compliance with regulations and keep up with new techniques and technologies. This guide works well as a primer and a resource for finding more detailed information when needed, covering starting a practice, managing finances (including revenue cycle management), coordinating staff and outside resources, improving care through information technology and keeping up with the legal end. The companion website includes a variety of business and practice resources, including forms and digests.
- R728 2006-103093 978-0-470-12516-8
The well-managed mental health practice; your guide to building and managing a successful practice, group, or clinic.
 Wiger, Donald E.
John Wiley & Sons, ©2007 292 p. \$34.95 (pa)
 Drawing on his experience working in, managing, and owning both large and small mental health clinics, Wiger (psychology, Argosy University) describes problems encountered by clinic directors and managers, and looks at some of the nonclinical skills needed, both as a therapist and as a clinic director or manager, to be successful in a private practice or clinic setting. Going beyond merely starting a practice, he looks at management techniques and issues related to growing the business, and gives examples of clinic policies and procedures designed to conform to accreditation, third-party requirements, and sound business practices. Because most of the information in the book hasn't been available in prior texts, there is no bibliography. The author runs a large mental health clinic in St. Paul, Minnesota.
- R733 978-1-84619-111-4
Integrating complementary and conventional medicine.
 Coyle-Demetriou, Myra and Andrew Demetriou.
Radcliffe Publishing, ©2007 214 p. \$45.00 (pa)
 Seeking to build bridges between complementary and alternative (CAM) and conventional medicine, a holistic therapist/Reiki master and a UK general/homeopathic physician make a case for integrated health care. They discuss management and prevention of specific psychological and physical conditions via a gamut of treatment options. Chapters include case studies, references, further reading, resources, and lastly, a review of an outcome study of integrating CAM into conventional general practice in the UK. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.
- R737 2006-937932 978-0-7618-3662-9
Getting cut; failing to survive surgical residency training.
 O'Connell, Virginia Adams.
Univ. Press of America, ©2007 283 p. \$39.95 (pa)
 O'Connell (sociology and anthropology, Swarthmore College) considers the factors that lead to dropping out or being terminated from surgical residency programs. She examines the interplay between the institution and individual residents through data collected from a 1990 survey of 556 certified residency programs in the US in anesthesiology, general surgery, neurosurgery, orthopedic surgery, and plastic surgery, as well as interviews with attendings, nurses, and residents from five neurosurgery programs. Factors such as the culture, structure, and organization of the programs are considered, including surgery as an "old boy's network" and how it impacts attrition among female and minority residents. In addition, she looks at the evaluation of non-quantifiable traits such as honesty and how this can lead to discrimination.
- R737 978-1-57947-812-4
Graduate medical education directory; including programs accredited by the Accreditation Council for Graduate Medical Education, 2007-2008.
 Title main entry. American Medical Association.
American Medical Association, ©2007 1146 p. \$78.00 (pa)
 The 92nd edition of the directory contains updated information on 8,400 accredited and combined residency and fellowship programs in the U.S., noting changes such as newly appointed program directors, the addition of new programs, and withdrawn programs. An introductory section describes the process for applying to medical school and the process of accreditation, program organization, and other useful information. A complete description of the program requirements for 129 Accreditation Council for Graduate Medical Education specialties are provided, followed by a listing of the programs in each specialty, arranged by state. Extensive contact information for each program, the certification requirements for 24 medical specialty boards, and a glossary of medical terms are provided.
- R824 2006-478342 0-7969-2153-9
Doctors in a divided society; the profession and education of medical practitioners in South Africa.
 Breier, Mignonne. (HSRC research monograph)
Human Sciences Res. Council, ©2006 116 p. \$25.95 (pa)
 South Africa is still a society struggling with inequity, a situation reflected in education, opportunities for advancement in professions and business, and in health care. Therefore the new crop of doctors may better reflect the demographics of the country, but still has some way to go and needs work to keep up with international and domestic dictates. This report and series of recommendations keeps the particular situation of South Africa in mind, including the question of whether every med school grad will stay and work in the country and provide equity in care. It covers training standards, the labor market in South Africa, the new demographics, and case studies of the training of urban and rural doctors. The sets of statistics are particularly well chosen and telling.
- R834 2007-000350 978-1-4051-5707-0
EMQs and MCQs for medical finals.
 Bath, Jonathan et al.
Blackwell Publishing, ©2007 330 p. \$39.95 (pa)
 For those preparing for Final Examinations, Bath (general surgery, John Hopkins Hospital, UK) et al. present five practice papers and detailed answers to 450 multiple choice questions (MCQs) and extended matching questions (EMQs) in 24 commonly tested areas of medicine, surgery, and subspecialties. They are presented in a similar format and style to the exams. The answers explain the correct choice and why others are incorrect. There is no index.
- R850 2006-036939 978-0-470-06071-1
A self-fulfilling prophecy; building a successful career in health research.
 Stewart, Simon.
John Wiley & Sons, ©2007 165 p. \$38.00 (pa)
 Stewart uses his experience in health research to advise non-medical health researchers (particularly those in nursing and allied health) on choices and techniques to advance their careers. Well-written advice tells readers how to: become a strategic researcher, benchmark capabilities and performance, identify career targets, apply successfully for research funds, and choose topics and strategies to stand out, among other tasks. Case studies and legal/institutional discussions are specific to Australia, but much of the volume applies to health researchers worldwide.
- R852 978-90-420-2179-2
Ethics in biomedical research: international perspective.
 Title main entry. Ed. by Matti Häyry et al. (Value inquiry book series; v.186)
Editions Rodopi, ©2007 248 p. \$70.00 (pa)
 Biomedical research has a long and sometimes horrifying history, as marginalized group after marginalized group has been used as lab rats or subjects of brutal and senseless experimentation, whether psychological, medical or surgical. This makes the leading question under debate here, which is why "bother" with ethics in biomedical research even more interesting. The 15 essays answer on various levels in various ways, covering issues of vulnerability in the introduction and moving to facts and fears concerning biomedical involvement, including new perspectives from developed and developing countries; research and technology as answers and questions, including whether to produce genetically modifies organisms with public health in mind, rare genetic disorders, and embryo research; and vulnerability, power and responsibility, including issues of infectious diseases, new vulnerabilities added to the old ones by research, and some alternatives to biomedical research.

R856 2006-027165 978-0-471-70907-7

Bioregenerative engineering; principles and applications.

Liu, Shu Q.

Wiley-Interscience, ©2007

1053 p.

\$125.00

Molecular therapeutic strategies have been developed to treat symptoms of asthma, and molecular regenerative engineering has proven promising in the control of diabetes mellitus. However, therapeutic proteins can be delivered to nerve system injuries by injection, but the injection itself induces more nerve injury. Liu (biomedical engineering, Northwestern U.) gives both the good and bad news in his encyclopedic approach to this discipline, which applies engineering principles and technologies to regenerative medicine. He gives fundamental theories at the molecular, cellular and tissue levels along with the basic notions behind bioregenerative engineering such as the molecular basis, the regulatory mechanism and the developmental aspects, including the present and oncoming engineering tests and therapies for major organ systems. He explains current thinking on the regulation of gene expression, fertilization and early embryonic development, regeneration of adult cells up to the organ level and regenerative engineering for cancer.

R857 2006-030754 978-0-471-74304-0

Biomedical optics; principles and imaging.

Wang, Lihong V. and Hsin-i Wu.

Wiley-Interscience, ©2007

362 p.

\$89.95

Wang (biomedical engineering and optical imaging, Washington U., Missouri) and Wu (biomedical engineering, Texas A&M U.) offer a textbook for a one-semester or two-semester course introducing biomedical optics. They cover the fundamentals of photon transport in biological tissue, and optical imaging. Students are expected to have a background in calculus and differential equations; experience in MATLAB or C/C++ would also be helpful.

R857 978-0-87849-422-4

Bioceramics; proceedings; 2v.

International Symposium on Ceramics in Medicine (19th: 2006:

Chengdu, China) Ed. by Xingdong Zhang et al.

Trans Tech Publications, ©2007

1450 p.

\$399.00

An international group of contributors present recent research in bioceramics at the 19th Annual Symposium on Ceramics in Medicine, which took place in Chengdu, China (where the editors are based, at the Sichuan U. and the Shanghai Institute of Ceramics) in October 2006. The 349 papers are organized into 15 topics, though they are characterized by the interdisciplinarity of the subject. Among the topics are tissue engineering, osteoinductive materials, dental materials, wear, bioactive coatings and biomimetic apatites, ceramic composites, and nanomaterials. The articles are illustrated with b&w microphotography, tables, and related material. Distributed in the US by Enfield.

R857 978-1-904933-29-8

Nanotechnology in therapeutics; current technology and applications.

Title main entry. Ed. by Nicholas S. Peppas et al.

Horizon Bioscience, ©2007

442 p.

\$216.00

The 17 papers contained in this volume review recent advances in nanotechnology in the field of medical therapeutics. Peppas (chemical and biomedical engineering, U. of Texas at Austin), Hilt (chemical and materials engineering, U. of Kentucky), and Thomas (chemical engineering, U. of Texas at Austin) have organized the contributions into sections covering "intelligent therapeutics," which involves responsive devices and drug delivery systems that can detect and respond to biological undesirables and/or release drugs, proteins, or therapeutic agents; therapeutic micro- and nanodevices; nanostructured therapeutic materials; and nanoparticulate systems in intelligent therapy, although there is often significant thematic overlap. Examples of specific topics addressed include nanoscale analysis of mucus-carrier interactions for improved drug absorption, polymeric gene delivery vectors, scientific and engineering approaches to biomimetic systems, nanostructured scaffolds for tissue engineering, star polymers and dendrimers in nanotechnology and drug delivery, and nanoparticulate structures in diabetes treatment. Distributed in the US by Taylor & Francis.

R857 2007-007401 978-0-8493-9026-5

Tissue engineering.

Title main entry. Ed. by John P. Fisher et al.

CRC / Taylor & Francis, ©2007

— p.

\$80.96

Declaring tissue engineering as the "future of medicine," Fisher (bioengineering, U. of Maryland), Mikos (bioengineering, Rice U.), and Bronzino (applied science, Trinity College) present 33 chapters describing current knowledge on the fundamentals of tissue engineering, enabling technologies, and tissues engineering applications. Chapters addressing fundamentals discuss the properties of stem cells, primary cells, growth factors, and the extracellular matrix together with their impact on the development of tissue-engineered devices. Enabling technologies discussed include scaffolds, nanocomposites, bioreactors, drug delivery systems, and gene therapy techniques. A section on applications describes synthetic tissues and organs under development for regenerative medicine applications, including human skin substitutes, nerve regeneration, vascular grafts, regeneration of urologic organs, adjunct and temporary liver support, and renal replacement therapy, among others.

R858 978-0-7695-2905-9

Computer-based medical systems; proceedings.

Symposium on Computer-Based Medical Systems (20th: 2007: Maribor,

Slovenia) Ed. by Peter Kokol et al.

Computer Society Press, ©2007

734 p.

\$270.00 (pa)

Papers from a June 2007 symposium describe recent research in software systems in medicine, computer-aided diagnosis, knowledge-based systems, signal and image processing in medicine, bioinformatics, medical image segmentation, and medical databases and information systems. Other areas covered include affective computing, bioinformatics and its medical applications, computational proteomics, data mining, and grids for biomedicine and bioinformatics. Healthcare knowledge management, machine learning and management of health-care procedural knowledge, technology enhanced learning in medical education, and intelligent patient management are some other topics. Some specific paper topics include the use of Markov models to find interesting patient pathways, online medical CBT usage, managing conceptual revisions in a temporal fungal taxonomy, and medical knowledge morphing via a semantic web framework. There is no subject index.

R858 2007-007280 978-1-59904-651-8

Information systems and healthcare enterprises.

Rada, Roy.

IGI Publishing, ©2008

362 p.

\$99.95

Rada (information systems, University of Maryland-Baltimore County) offers an introduction to healthcare information systems, for people with some background in both healthcare and information systems. Material is presented from a practitioner's perspective, with special emphasis on the impact of regulations deriving from the Administrative Simplification provisions of HIPAA. Consideration is given to the role of information technology vendors as well as provider organizations such as hospitals and health insurance companies. Pedagogical features include chapter review questions, activities, and multiple-choice quizzes. The book's readership includes advanced undergraduate and graduate students in information systems or healthcare administration, and professionals responsible for decisions about information systems in healthcare enterprises.

R859 2007-926798 978-0-7695-2904-2

Medical information visualisation; biomedical visualisation; proceedings.

Conference on Medical Information Visualisation; BioMedical Visual

(4th: 2007: Zurich, Switzerland) Ed. by Gordon Clapworthy et al.

Computer Society Press, ©2007

87 p.

\$173.00 (pa)

The theme of this year's conference was medical image registration, biomedical visualization techniques, and computer graphics applications in medical imaging. Researchers from both medical and technical fields report on such aspects as deformable registration using spring mass system with cross-section correction, evaluating the computer-assisted quantification of carotid stenosis, visualizing a skeletal dysplasia knowledge base, and a novel medical image segmentation method using dynamic programming. Only authors are indexed.

R864 2007-270736 978-0-07-310803-2

Computers in the medical office, 5th ed. (CD-ROM included)

Sanderson, Susan M.
McGraw-Hill, ©2006

384 p. \$97.33 (pa)

This updated text/workbook for students in the fast-growing occupation of medical billing newly includes hands-on exercises, a new chapter on collections from patients, a bundled CD-ROM containing Medisoft advanced version II software used for exercises throughout the book, and an online resource. Chapters logically following the billing process sequence, also include realistic case studies, tips on using the billing software efficiently, screen captures, templates of typical forms and documents, and a glossary. Sanderson is a technical writer who authored all the editions.

R864 978-1-85775-750-7

Implementing an electronic medical record system; successes, failures, lessons.

Scott, Tim et al.

Radcliffe Publishing, ©2007

156 p. \$49.95 (pa)

Scott (organization, U. of St. Andrews, Fife, UK), Rundall (organized health systems, U. of California, Berkeley), Vogt (Kaiser Permanente Center for Health Research, Hawaii) and Hsu (physician scientist, Kaiser Permanente Division of Research, Oakland) describe the implementation of an electronic medical record (EMR) system at Kaiser Permanente in Hawaii. Interviews were conducted with those who participated in the implementation—26 senior clinicians, managers, and EMR project team members. Following a history of the Kaiser Permanente medical care program, they detail organizational factors relating to EMR implementation and care redesign, including culture, leadership, functionality, and use, and previous IT implementations and effects on processes of care. This is followed by an examination of successes and failures, barriers and facilitators, and tips on how to approach implementation more effectively based on the lessons learned. The study is aimed at those involved in implementing information technologies strategies, particularly clinicians, managers, policy makers, and implementation teams and health sector information technology suppliers and providers. Published by Radcliffe Publishing (UK); US distribution is by BookMasters.

R899 2006-046715 0-323-04317-8

Learning radiology; recognizing the basics.

Herring, William.

Elsevier Mosby, ©2007

307 p. \$49.95 (pa)

Herring (radiology, Albert Einstein Medical Center) gives students in rotation and those studying for USMLEs a chance in this study guide that features a companion student web site. He focuses on recognizing signs of specific conditions and moves from cardiomegaly to interstitial lung disease, opacified hemithorax, atelectasis, pleural infusion, pneumonia, pneumothorax and associated conditions, adult heart disease from the frontal chest radiograph, congestive heart failure, lung masses, the normal and abnormal abdomen, calcification, gastrointestinal conditions, abnormalities in bone density, fractures and dislocations, joint disease, back and neck pain, and abnormal head findings. He also includes chapters on standard CTs of the chest, the correct placement of lines and tubes, and recognizing a technically adequate image.

RA393 2006-925334 978-1-4129-3072-7

Policy and practice in promoting public health.

Title main entry. Ed. by Cathy E. Lloyd et al.

Sage Publications, ©2007

404 p. \$130.00

Lloyd et al. (health and social care, health promotion, Open U., UK) assemble a volume consisting of 12 essays on policy and practice issues in promoting public health at community levels, and the relationship between the local and global in terms of policies designed to address inequalities in health and disease. They address how policy in the UK is made and changed and the effects of this on public health. Contributors, who are scholars in health, social care, and health policy and management, consultants, and general practitioners in the UK, consider concepts of power, change, diversity, and values and evidence underpinning policy and practice, in essays on the relationship between local, national, international and global policy and public health promotion, and local and community action. Each section ends with a chapter specifically on public health questions relating to poverty and mental health. The book is part of the third-level Open U. course *Promoting public health: skills, perspectives and practice* (K311) and is published with a companion volume, *Theory and Research in Promoting Public Health*.

RA394 978-1-84619-107-7

Develop your interpersonal and self-management skills, a practical resource for healthcare administrative and clerical staff.

Stainsby, Karen.

Radcliffe Publishing, ©2007

141 p. \$45.00 (pa)

Loaded with questions and exercises, this hands-on guide goes deep into habits, prejudices and attitudes as it gives readers practical ways to improve their communication, self-management and self-care skills. Given that healthcare administrative and clerical workers often deal with people in stress (and those people can be patients or practitioners), counselor Stainsby pays due heed to working with people in difficulty. She also helps workers speak their minds and strike bargains, thereby taking control of what would seem to be an uncontrollable situation and gives good advice on how our patterns of thought influence our effectiveness on the job and out emotional well-being. US distribution is by BookMasters.

RA395 978-1-933588-10-0

American health; demographics and spending of health care consumers, 2d ed.

Title main entry. Ed. by The Editors of New Strategist Publications.

New Strategist Pub., Inc., ©2007

464 p. \$89.95

This volume presents data on the demographics of health care consumers in the US and the services they use, relating to addictions, aging, alternative medicine, attitudes toward health care, births, health care coverage and cost, deaths, disability, diseases and conditions, health care visits, hospital care, mental health, sexual attitudes and behavior, and weight and exercise. Table data and other information was drawn from the Consumer Expenditure Survey, the National Center for Health Statistics, the Census Bureau, the General Social Survey of the U. of Chicago's National Opinion Research Center, the Medical Expenditure Panel Survey, Pew Internet & American Life Project, the Gallup Organization, the Kaiser Family Foundation, and the Monitoring the Future Survey of the U. of Michigan's Institute for Social Research. Data—mostly from 2004 and 2005, with some from previous decades—was reconstructed to reveal trends in areas such as smoking, birth rates, number of uninsured Americans, gender and racial differences, contraception, and other information. Tables are listed in statements so that readers can see the trend when browsing the table of contents.

RA395 2006-025130 978-1-84310-482-7

Betraying the NHS; health abandoned.

Mandelstam, Michael.

Jessica Kingsley Pub., ©2007

317 p. \$24.95

Having provided legal advice and training to the British National Health Service, local authorities, and voluntary organizations for ten years Mandelstam here describes policies and decision making in the Service that he finds to be very harmful, particularly to people with the greatest need: older people and those with learning disabilities and mental health problems. But even the healthy and people with minor problems or routine conditions such as pregnancy will suffer, he warns.

RA395 2006-103080 978-0-8213-6947-0

Establishing private health care facilities in developing countries; a guide for medical entrepreneurs.

Nah, Seung-Hee and Egbe Osifo-Dawodu. (WBI development studies)

The World Bank, ©2007

232 p. \$25.00 (pa)

Taking into account growing awareness of the role of the private health sector in many developing countries, World Bank Institute staff offer medical entrepreneurs practical advice on building sustainable health care facilities. The book includes recent trends, case examples, the process of conducting feasibility analyses, and suggested reading. Specifics on development goals, financing and staffing a facility (e.g., sample cost estimation forms), and health status indicators are appended.

RA395 2007-009577 978-0-8261-0214-0

An introduction to the U.S. health care system, 6th ed.

Jonas, Steven et al.

Springer Publishing Co., ©2007 308 p. \$45.00 (pa)

This could have been a series of volumes stretching from a random medical school to the moon, but the authors have chosen wisely to objectively and concisely describe the most salient features of a health care system in which the term "system" should be taken with a grain of salt. Updated and expanded to include the latest, this edition overviews the basic components of the system, including the various roles of the workforce and their respective education, the structure and operation of hospitals and other health care institutions, primary and ambulatory care, the role of the government in delivery of health care, financing, system performance, and attempts at reform. The authors also provide a very helpful list of critical reports on the US health care delivery system from 1927 to 2006 and a glossary of terms. Medical students of all stripes, legislators and the general public should read this.

RA395 2006-049236 0-06-058045-3

Sick; the untold story of America's health care crisis—and the people who pay the price.

Cohn, Jonathan.

HarperCollins, ©2007 302 p. \$25.95

Drawing on his travels across the U.S. through major cities and small towns, Cohn (senior editor, the *New Republic*; Demos think tank) presents historical context on and examples of how the sorry state of the country's health care system affects real people. Reporting on how lack of affordable health care and the dysfunctional system can result in economic ruin, health complications, and even death, he concludes by arguing for universal health care coverage though realistic about such existing systems' flaws.

RA399 978-1-85775-773-6

Involving people in healthcare policy and practice.

Green, Susie.

Radcliffe Publishing, ©2007 176 p. \$49.95 (pa)

Green, who is an administrator in the National Health Service (NHS) in the UK, writes largely for those who use the NHS as their primary care provider, but her ideas also work for those who deal with large-scale private systems. She advocates community involvement in health care policy at a grass-roots, local level, and is convinced such involvement results in more efficacious care throughout the system. She and her contributors give laymen, administrators and health care providers the basic theories and applications, show how qualitative and rights-bases approaches work on the front line of care, and describe how to use political action as an effective tool. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.

RA399 978-1-84619-105-3

Leadership and teambuilding in primary care.

Mullins, Clare and Graham Constable.

Radcliffe Publishing, ©2007 154 p. \$45.00 (pa)

Mullins and Constable, partners in a coaching and training service to medical professionals, offer a guide on developing leadership and teambuilding skills in the context of work in primary care. Developed alongside the UK's National Health Service Leadership Qualities Framework, the guide concentrates on the healthcare organization as a business. Numerous short chapters, written in an informal style, give background on relevant research and conceptual frameworks, and provide exercises, scenarios, and self- and team-assessment instruments. Each chapter ends with learning outcomes and action points. The readership for the book includes practice managers, general practitioners, nurses, and other healthcare professionals. The book is distributed in the US by BookMasters.

RA399 978-0-470-02777-6

Statistical development of quality in medicine.

Winkel, Pet and Nien Fan Zhang. (Statistics in practice)

John Wiley & Sons, ©2007 263 p. \$90.00

Winkel (clinical intervention research, Copenhagen U.) and Zhang (US National Institute of Standards and Technology) set out statistical techniques for developing quality in medicine, and include a collection of example applications in clinical practice. For readers with only a high-school knowledge of mathematics, an appendix reviews the basic statistical background for statistical process control; otherwise, the material could interest nurses and physicians who have studied some applied statistics related to medicine, and researchers in such fields as quality assurance and epidemiology who have a deep background in statistics. Much of the material is translated and revised from Winkel's 2002 Danish textbook.

RA410 978-1-84619-171-8

Applied econometrics for health economics; a practical guide, 2d ed.

Jones, Andrew.

Radcliffe Publishing, ©2007 120 p. \$39.95 (pa)

Jones (economics, U. of York) gives professionals and students in health economics all the tools they need to understand econometric techniques in applied research, including ways to formulate empirical problems involving large sets of survey data, construct usable data sets, know the limitations of survey designs, select appropriate econometric methods, implement accurate estimations and interpret the results in a statistically and economically meaningful way. He has update this edition to include new research and technology while retaining accessibility, and includes relevant data commands and software concerns throughout. He covers linear regression, binary dependent variables, the ordered and bivariate probit models, multinomial models, the selection problem, endogenous regressors, count data regression, duration analysis and panel data models along with a very succinct glossary and references. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.

RA410 978-1-85315-420-1

Memorizing medicine; a revision guide.

Bentley, Paul.

Royal Society of Medicine Pr., ©2007 498 p. \$49.95 (pa)

HONK if you suspect diabetes. COIL if you suspect pulmonary embolism. Using very memorable mnemonics, fetching cartoons and proven psychological techniques to improve recall, this general medicine text helps students and practitioners take command of the gargantuan quantities of information they need to accurately diagnose a range of conditions and prescribe correct treatment. Bentley (neurology, Imperial College) organizes topics into concise, one-page formats with hierarchical text and nested data, providing readers with the most important information and then linking it to the next. The result is a remarkably accessible reference, study guide and refresher covering cardiology, respiratory medicine, gastroenterology, infectious diseases, rheumatology, neurology, endocrinology, clinical chemistry, renal medicine and hematology for GPs and students. Remarkably, Bentley knows when to bend his own rules for the sake of accuracy and also supplies a very good glossary and remarkably comprehensive index.

RA410 2006-023410 978-0-8213-6547-2

Public ends, private means; strategic purchasing of health services.

Title main entry. Ed. by Alexander S. Preker et al.

The World Bank, ©2007 414 p. \$35.00 (pa)

Preker (lead economist, World Bank) presents work that will help readers design and implement health care purchasing arrangements in low- and middle-income countries in order to address shortcomings in efficiency and equity. Contributors in public health, health economics, and health and social policy challenge myths related to who decides how to use scarce resources in the health sector, who gets the resources, how much they get, and who benefits. Part I provides a broad policy framework for understanding strategic purchasing, and Part II reviews its underlying economics. Part III provides a framework for evaluating existing resource allocation and purchasing arrangements in terms of their impact on efficiency and equity. Six regional reviews of current resource allocation and purchasing arrangements in developing countries are available online.

RA412 2006-277875 978-0-7216-0556-2

Medical insurance made easy; understanding the claim cycle, 2d ed. (CD-ROM included)

Brown, Jill L.

Elsevier Saunders, ©2006 533 p. \$64.95 (pa)

This textbook teaches students and medical office staff how to file medical claims using payor-specific rules and (later) determine whether or not the correct reimbursement has been collected. Fourteen chapters discuss such topics as diagnosis coding, managed care medical plans, Medicare, and hospital/facility billing rules. Ten fictionalized case studies found on the CD-ROM give students practice in completing CMS-1500 claim forms for a variety of payors.

RA418 2006-276136 0-7619-4115-0

The Sage dictionary of health and society.

White, Kevin.

Sage Publications, ©2006 242 p. \$39.95

White explains how medical anthropologists, sociologists, historians, and philosophers of medicine use words to discuss health-care and healing systems. He often contrasts the use with that by psychologists and sociobiologists because they, like practitioners of standard biology and medicine, believe sickness, illness, and disease are a product of nature existing independently of social life. References and cross-references abound.

RA418 2006-030357 978-1-4051-5172-6

Sociology of health and health care, 4th ed.

Title main entry. Ed. by Steve Taylor and David Field.

Blackwell Publishing, ©2007 278 p. \$36.00 (pa)

In this successor to the 2003 text, Taylor (London School of Economics) and Field (health sciences, U. of Leicester) provide an updated introduction to the sociology of health, illness, and health care. Initial chapters overview research design and methods, and sociological approaches to such topics as the sick role. In a UK context, subsequent sections examine associations between socio-economic status and inequities in health, health care policies, changing roles, and ethical issues. The section on chronic illness and disability newly treats eating disorders. Chapters include further reading.

RA425 978-0-8243-2728-6

Annual review of public health; v.28, 2007.

Title main entry. Ed. by Jonathan E. Fielding et al.

Annual Reviews, ©2007 470 p. \$181.00

The 2007 edition of this annual series consists of four papers from a symposium on public health preparedness, and 19 reviews of current research on epidemiology and biostatistics, social environment and behavior, environmental and occupational health, health services, and public health practice. The review papers explore the seasonality of infectious diseases, the epidemiology of autism spectrum disorders, church-based health promotion interventions, the impact of changing disease definitions, and economic evaluation of health policies.

RA427 2007-002209 978-0-7879-8785-5

Coalitions and partnerships in community health.

Butterfoss, Frances Dunn.

John Wiley & Sons, ©2007 579 p. \$55.00

Butterfoss (community health, pediatrics, Eastern Virginia Medical School) offers a step-by-step guide to building, sustaining, and evaluating coalitions to improve community and public health. After a historical and conceptual foundation on various coalition frameworks and models, Part II delves into the roles of lead agency and coalition members, coalition procedures, and structure and governance. Part III focuses on marketing, funding, and resource development, and Part IV looks at assessment and evaluation, describes planning models, and details the activities and strategies that coalitions and partnerships are most likely to pursue in the community setting. Checklists for practice, as well as chapter summaries and review questions, are included. The audience for the book includes faculty and students in health and human services professions, and novice and seasoned health and human services professionals.

RA427 978-1-4129-2402-3

Communicating health; strategies for health promotion.

Title main entry. Ed. by Nova Corcoran.

Sage Publications, ©2007 220 p. \$115.00

This collection of essays gives new health care communicators and promoters the basics while also describing innovative and efficacious ways to get the point across and affect health behavior. They do, however, give an overview of theories and models in communicating health messages so readers know more about what is behind what works, then describe the social and psychological factors in human communication, the means of reaching what are considered unreachable barriers and crossing cultural quicksand, positive and cost-effective usage of the mass media, information technology (ranging from the Internet to computer-based intention techniques to mobile phones), settings that promote communication of health information, evidence-based practice in communications and evaluation as a tool to increase the effectiveness of health care communication.

RA440 2007-925041 978-0-387-70973-4

Global perspectives on health promotion effectiveness.

Title main entry. Ed. by David V. McQueen and Catherine M. Jones.

(Global perspectives on health promotion effectiveness; v.1)

Springer, ©2007 425 p. \$69.95

The International Union for Health Promotion and Education (IUHPE, based in Paris, France) initiated the Global Programme on Health Promotion Effectiveness, the methodology and initial findings from which are presented in the 23 articles of this volume. Written by 55 contributors from six continents, the articles include four on the Programme itself, seven case studies, five on specific issues, and seven on controversial aspects of the very notion of the effectiveness of health promotion. The case studies concern obesity prevention, promoting physical activity, mental health promotion, policy development, health in the schools, and alcohol and smoking prevention. The status of the contributors and focus on theoretical issues will ensure wide readership for the volume. Jones is with the IUHPE; McQueen is at the Centers for Disease Control and Prevention in Atlanta.

RA440 2006-101856 978-0-8261-0229-4

Health literacy in primary care; a clinician's guide.

Mayer, Gloria G. and Michael Villaire.

Springer Publishing Co., ©2007 294 p. \$55.00 (pa)

This resource for health care providers offers practical tips for improving communication with patients, particularly those with communication barriers such as low literacy skills. A sampling of topics includes creating a patient-friendly environment; assessing patients literacy levels; and designing easy-to-read patient education materials. The role of interpreters in the health care setting is addressed in the final chapter. The authors are affiliated with the Institute for Healthcare Advancement, a nonprofit organization dedicated to promoting health literacy.

RA440 2006-933954 978-1-4129-0363-9

Researching health; qualitative, quantitative and mixed methods.

Title main entry. Ed. by Mike Saks and Judith Allsop.

Sage Publications, ©2007 422 p. \$130.00

Novice researchers set out to fulfill all the obligations imposed by one theory, method or model but find that data and other conditions demand several approaches to ensure at least some semblance of reality. This collection of 21 articles focuses on a range of research theories but also describes how to mix methods to ensure the most accurate representation of findings. The introductory articles define the contexts for researching health, describe competing paradigms and show how to conduct an appropriate literature review. Articles on qualitative methods cover documents, unstructured interviews, observation focus groups and action research, while those on quantitative methods describe using sampling, surveys, statistics, randomized controlled trials, experimental methods and economics. Other articles comment on ethics, multidisciplinary research, research of alternative medicine, working with ethnic minority groups, involving consumers and conducting comparative health research. The final chapter covers writing up research and getting it published.

RA441 2007-358581 978-92-4-156332-1

Disease control priorities related to mental, neurological, developmental and substance abuse disorders.

Title main entry. World Health Organization.

World Health Organization, ©2006 103 p. \$22.50 (pa)

The World Health Organization has selected five chapters from its *Disease Control Priorities in Developing Countries, Second Edition* to highlight the cost-effectiveness of interventions for mental and neurological disorders, learning and developmental disabilities, and alcohol and illicit opiate abuse. Data and discussions of treatment and prevention are intended to inform policy reform and reallocation of resources in developing countries. A new introduction and conclusion from the World Health Organization are provided.

RA441 2007-296337 978-0-7456-3454-8

The health of men and women.

Payne, Sarah.

Polity Press, ©2006

229 p. \$24.95 (pa)

Does being female automatically mean receiving unequal health care? What is the difference between gender and sex in the delivery of health care across the world? Payne (social policy, U. of Bristol) comes up with some surprising answers, particularly the notion that research on the health of men and women tends to focus on narrow avenues of inquiry, such as reproductive health for women and risky behavior for men. She advocates a more comprehensive approach that takes into account the gender role and sex of the potential or present patient and the types of illnesses, diseases and conditions associated with that person's socioeconomic status, membership of a marginalized group, and culture. As a result, some of the things we think we know, such as most research on the topic being on the side of female care, may need to be re-assessed to better reflect reality. Distributed by Blackwell Publishing.

RA445 2007-005823 978-0-7879-8318-5

Prevention is primary; strategies for community well-being.

Title main entry. Ed. by Larry Cohen et al.

John Wiley & Sons, ©2007

367 p. \$55.00 (pa)

A former director of the American Public Health Association (APHA) introduces the challenges that the U.S. faces in health promotion and its poor rating on that score. Hoping to inspire a new generation of community leaders, Cohen (founder/executive director, Prevention Institute), authors with this nonprofit Institute, and other U.S. prevention specialists stress the importance of primary disease prevention. They present issues, lessons on protective factors from research on resilience, and collaborative prevention strategies (e.g., eliminating junk food advertising aimed at children, reducing local pollution and violence). Co-published by the APHA.

RA553 2007-013073 978-0-7391-1410-0

Hard yakka; transforming indigenous health policy and politics.

Kaplan-Myrth, Nili.

Lexington Books, ©2007

169 p. \$65.00

Whether or not a nation like Australia provides free cradle-to-grave health care, inequalities in that care in the case of indigenous and other marginalized people tends to bring the cradle far too close to the grace, Kaplan-Myrth (health and society, U. of Melbourne) analyzes the processes and structures that influence relationships between indigenous communities and government in the development, implementation and evaluation of health policy. Hard-wired into the delivery of services appears to be social and cultural misperceptions about needs and issues, despite recent progress in how indigenous people perceive themselves as members of that same society. She traces the various effects of bureaucracy and advocacy and presses for more research in public policy and community advocacy to ensure equality in care.

RA553 2007-386829 978-1-74175-142-0

Social determinants of indigenous health.

Title main entry. Ed. by Bronwyn Carson et al.

Allen & Unwin, ©2007

306 p. \$34.95 (pa)

Pushed aside geographically and socially, many indigenous people have little or no access to health care. Further, they have been burdened by the perceptions that their individual behaviors "cause" health issues. In Australia, some researchers are getting past those misperceptions by looking at the social and political circumstances that influence indigenous people's lives and therefore their health. These papers, contributed by Australian researchers, detail the effects of dispossession, classism, colonial rule and racism as well as reduced social capital, inequality in education and housing and differences in employment and the administration of welfare. They describe policy processes of the past and present and new considerations of human rights, and describe appropriate interventions and sustainable programs. Distributed by IPG.

RA564 2006-101375 978-1-4129-2609-6

Understanding communication and aging; developing knowledge and awareness.

Harwood, Jake.

Sage Publications, ©2007

325 p. \$44.95 (pa)

In this undergraduate text, Harwood (communication, U. of Arizona) discusses aging and the influence of communication, beginning first with an examination of theories and different disciplinary approaches and describing what the communication perspective entails. He then examines attitudes about the aging process and how they influence communication, as well as interpersonal communication in close relationships and how this can contribute to a more positive older adulthood. Later chapters address social representations and mass media, different ways of growing old around the world, and health communication and technology.

RA564 978-0-8020-3939-2

Women's health in Canada; critical perspectives on theory and policy.

Title main entry. Ed. by Marina Morrow et al.

U. of Toronto Press, ©2007

557 p. \$85.00

For teachers, students, and practitioners, Morrow (health sciences, gender and health, Simon Fraser U., Canada) et al. compile 20 essays that critically analyze women's health in Canada, and theory, policy, practice, and related issues, a topic not covered in depth before. They emphasize an intersectional model that takes not only gender into account, but class, race, sexuality, ability, and other influences that intersect with it. Each essay outlines the current state of knowledge in an area and provides the international context. They cover the history of the women's health movement, the importance of a lifespan approach, theory and methods (feminist methodology, postcolonial feminist perspectives, gender-based analysis), the multiple social determinants of health (poverty, disability, and mothering, for instance) and key issues such as mental health policy, HIV/AIDS, breast cancer, hormone replacement therapy, cardiovascular care, violence against women, and home care. Contributors work in health care, women's studies, sociology, and other fields in Canada. No index is provided.

RA565 978-1-84564-083-5

Environmental health risk III; proceedings.

International Conference on the Impact of Environmental Factors on Health (4th: 2007: Malta) Ed. by C.A. Brebbia. (WIT transactions on biomedicine and health; v.11)

WIT Press, ©2007

282 p. \$185.00

In 28 papers that represent most of the presentations at the conference, physical, environmental, and medical scientists and engineers describe experimental and modelling tools to help develop measures that will eliminate or reduce factors from the environment that can result in health risk to humans. They cover air pollution, water quality, the built environment, occupational health, social and economic issues, and risk prevention and monitoring. There is no subject index. The US office of WIT Press is Computational Mechanics.

RA565 2007-060502 978-0-8493-7998-7

Living with the earth; concepts in environmental health science, 3d ed.

Moore, Gary S.

CRC / Taylor & Francis, ©2007

604 p. \$64.95

Moore (Yale School of Public Health) presents a revised text for introductory courses in environmental health and environmental sciences, suitable for both graduate and undergraduate courses, and as a resource for professionals and community activists in the environmental and public health fields. Updated throughout, the third edition includes new chapters on emerging diseases and emergency preparedness; population dynamics, including the new problems of "under-population" in the developed nations; and new developments in the emerging problem of asthma and associated air pollutants; the genetic basis of cancer and the roles of behavior and pollution in cancer risk; and the biology of genetics, mutation and birth defects.

RA643 2006-102115 978-0-8261-0250-8

Emerging infectious diseases; trends and issues, 2d ed.

Title main entry. Ed. by Felissa R. Lashley and Jerry D. Durham.
Springer Publishing Co., ©2007 591 p. \$70.00

The 29 contributions in this collection examine factors affecting the emergence and reemergence of infectious diseases and microbial resistance in a broad context. The disease-specific chapters summarize the epidemiology, microbiology, clinical picture, treatment, and prevention of such diseases as cholera, dengue fever, hepatitis C, and malaria. The second edition adds chapters on fungal infections, Avian influenza A, metapneumovirus, monkeypox, and SARS.

RA643 2006-027913 978-1-58826-467-1

The global politics of AIDS.

Title main entry. Ed. by Paul G. Harris and Patricia D. Siplon.
Lynne Rienner Publishers, Inc., ©2007 335 p. \$58.50

Thirteen international academics and researchers contribute 13 chapters examining the politics and power of HIV/AIDS at multiple levels of human activity, from individual sexual relations to corporate boardrooms to the centers of international power in Washington, Brussels, United Nations headquarters, and beyond. Offering case studies of the local, national, and international politics of the HIV/AIDS pandemic, the text explores the depressingly slow response of governments to this public health crisis, and the related degree to which power relationships, and power disparities and imbalances in particular, have defined the problem. All royalties from sales of the book will be donated to AIDS-related organizations.

RA643 2007-003041 978-0-275-99126-5

Understanding new, resurgent, and resistant diseases; how man and globalization create and spread illness.

Link, Kurt.
Praeger, ©2007 179 p. \$44.95

Aimed at a general audience, this volume by Link (a retired medical internist) provides a broad overview of the variety of disease threats that threaten the health and lives of people around the world. He provides a basic description of types of disease organisms and disease vectors and then discusses a host of individual disease pathologies in terms of both how they affect human health and their prevalence around the world. He also discusses the health effects of environmental toxins and global climate change. Concluding chapters discuss disease prevention issues and public health efforts.

RA643 2006-102794 978-0-7391-0752-2

When communities assess their AIDS epidemics; results of rapid assessment of HIV/AIDS in eleven U.S. cities.

Title main entry. Ed. by Benjamin P. Bowser et al.
Lexington Books, ©2007 258 p. \$65.00

Bowser (sociology and social services, California State U.), Quimby (sociology, Howard U.), and Singer (Center for Community Health Research at the Hispanic Health Council) bring together 11 studies of the AIDS epidemic in 11 diverse cities in the US and the US Virgin Islands. Scholars and researchers of anthropology, epidemiology and public health, and psychology, and individuals working in public health organizations in the US use the Rapid Assessment, Response and Evaluation methodology, which was launched for the first time in the US in 1999, but has been used in African and Asian countries. Associations between sites, city and site-specific social contexts, observed activities, and institutional issues are covered. Also discussed are the details of the methodology, which includes geo-mapping, field observations, focus groups, in-depth individual interviews, and street intercepts, as well as recommendations for fighting the epidemic. The aim is to show how applied qualitative research can be useful at the community level, and how a qualitative research methodology can be empowering and used as an instrument of social policy. The book is aimed at individuals in public health and anthropology.

RA644 2006-937338 978-0-387-47863-0

Behavioral interventions for prevention and control of sexually transmitted diseases.

Aral, Sevgi O. and John M. Douglas, Jr.
Springer, ©2007 577 p. \$89.95

In this comprehensive resource that features several contributors from the CDC and other medical researchers from the US, Aral and Douglas (STD prevention, Centers for Disease Control and Prevention, Atlanta) compile 24 chapters that investigate the role of major behavioral interventions in combating sexually transmitted diseases. They aim to provide accessible information on the social and behavioral parameters of STD prevention for public health students and practitioners. Coverage begins with the history of STD prevention and control up to the modern AIDS era, theories in behavioral science and intervention methods, and transmission dynamics. Different intervention approaches are outlined, which are related to populations such as couples, small groups, and communities; institutions, service and educational systems, and laws and regulations; social marketing campaigns; and commonly known interventions such as partner notification, within the health care system, on the internet, and through condom use and vaccines. Specific population groups that are at high risk are then examined, such as women, adolescents, and incarcerated individuals. Methods, ethical considerations, and prevention-related policy are discussed in the final chapters.

RA644 978-92-4-156334-5

Partnerships for malaria control; engaging the formal and informal private sectors.

Title main entry.
World Health Organization, ©2006 82 p. \$22.50 (pa)

If you are poor and suspect you have malaria, you are likely to go to a drug shop worker, shopkeeper, street vendor or other private sector provider (PSP) for medication and treatment. About 50 percent of the poor in malarial regions do so because they have no access to other care. The results devastate the lives of people already living on the edge of survival. This report proposes creating more innovative partnerships between "formal" health care entities and PSPs (who control the anti-malarial drug market and access to mosquito nets in many regions) to prevent and treat malaria on the front lines. It describes who is treating malaria and who is receiving treatment, tools and technologies for treating malaria, strategic options for partnerships that benefit the poor, and priorities for implementation research.

RA644 2007-001291 978-0-8213-7044-5

Public policy and the challenge of chronic noncommunicable diseases.

Adeyi, Olusoji et al.
The World Bank, ©2007 188 p. \$28.00 (pa)

Noncommunicable diseases (NCDs) are responsible for over half of all deaths in low- or middle-income countries. Cardiovascular diseases, cancers, respiratory and digestive diseases and diabetes take their toll not only in mortality but in the resources patients need as they seek treatment, often over a very long period. This report, which is directed at national and international policy makers, seeks to identify ways to reduce the incidence of NCDs worldwide, particularly in nations without the financial and medical resources necessary to prevent or treat their own population in the long term. It focuses on ways to receive better value for money given that the rate of NCDs will surely not decline in the coming decades, advocates preparing NCD policies that will reduce incidence and better allocate resources, and gives an agenda for the World Bank to follow in supporting intervention.

RA645 2007-002810 978-0-309-10174-5

Emergency medical services at the crossroads.

Title main entry. Ed. by Committee on the Future of Emergency Care in the United States Health System, Board on Health Care Services. (Future of emergency care series)
National Academies Press, ©2007 285 p. \$39.95

Drawn from research conducted over several years, this report considers the emergency medical services (EMS) in the US and their place in the overall health system. EMS must often to serve as primary care providers for an increasing number of Americans, but may not receive the appropriate levels of support needed to be completely effective. This report describes the education of staff and the operating procedures of a typical EMS, future models of services, and the need for more integration with the rest of the US health care system. It comments on the need for more specialized training, recruitment and retention techniques, the role of leadership, the impact of new system infrastructures (including dispatch and other communication systems) and the need to prepare for disasters. The authors recommend conducting more research to bring EMS in the US to its optimal state.

- RA645 2007-002949 978-1-4051-4949-5
GI epidemiology.
 Title main entry. Ed. by Nicholas J. Talley et al.
Blackwell Publishing, ©2007 270 p. \$99.95
 In a reference based on the GI Population Science course that they teach at the Mayo Clinic College of Medicine in Jacksonville, Florida, and Rochester, Minnesota, Dr. Talley and his colleagues introduce 35 chapters on the under-recognized discipline of gastrointestinal (GI) epidemiology. Following a chapter on the importance of this distinct discipline to epidemiologists and gastroenterologists, international specialists review epidemiologic methods, their application to patient risk and clinical trial outcomes, healthcare utilization and cost analyses, systematic reviews and meta-analyses, and the epidemiology—and gaps in such knowledge—of specific GI disorders. They also discuss career and funding opportunities in this field.
- RA645 2007-009111 978-1-934043-54-7
Obesity and its related diseases in China; impact of the nutrition transition in urban and rural adults.
 Weng, Xiaoping and Benjamin Caballero.
Cambria Press, ©2007 120 p. \$69.95
 Countries of the developing world, including China, are seeing dramatic changes in food availability, dietary intake patterns, and overall lifestyle, which are resulting in a prevalence of chronic, non-communicable diseases, particularly obesity, cardiovascular disease, and diabetes. Weng (Kaiser Permanente Foundation, California) and Caballero (public health, Johns Hopkins U.) present findings from a study aimed at quantifying and comparing obesity and related disorders in Chinese populations living in urban or rural environments. Utilizing data on dietary intake, physical activity, lifestyle, body composition, and a series of biochemical tests to quantify each component of the metabolic syndrome, the study provides a clearer picture of the patterns of the metabolic syndrome in urban and rural areas, and will allow a more effective use of the simple indicators to predict risk of chronic diseases.
- RA645 2007-011136 978-0-393-06216-8
Waistland; the (R) evolutionary science behind our weight and fitness crisis.
 Barrett, Deirdre.
W.W. Norton, ©2007 262 p. \$24.95
 In chapters with catchy titles like “don’t be too refined” (referring to refined foods), trend data, and cartoons, a Harvard Medical School psychologist weighs in on the obesity epidemic. Barrett dispels common dieting and food regulation myths, and argues that we need to re-program ourselves to respond to normal—from an evolutionary standpoint—rather than to supernormal food stimuli. She also points out flaws in the standard height-weight and body mass index tables.
- RA652 2007-000593 978-1-58488-619-8
Analysis of correlated data with SAS and R, 3d ed. (CD-ROM included)
 Shoukri, Mohamed M. and Mohammad A. Chaudhary.
Chapman & Hall/CRC, ©2007 295 p. \$89.95
 Previously published as *Statistical Methods for Health Sciences*, this edition is thoroughly updated to reflect current technologies and practices. The authors assume readers have a working knowledge of SAS and R and need to analyze clustered and correlated data from epidemiological and medical investigations. They begin by describing the analysis of clustered and cross-qualified data, then describe modeling binary outcome data, analyzing clustered count data, analyzing time series, working with repeated measures and longitudinal data analysis, and conducting survival data analysis along the way they provide examples and illustrations and also give readers a full bibliography. Although intended for use in the medical community, those in other fields may also find this useful at the intermediate and advanced levels.
- RA652 978-1-84619-124-4
Basic concepts in statistics and epidemiology.
 MacDonald, Théodore H.
Radcliffe Publishing, ©2007 214 p. \$39.95 (pa)
 Finding that many course modules on statistics and/or research methods for medical students fail to develop cognitive understanding of the material as opposed to just technical proficiency in statistical program use, MacDonald (Research Institute of Human Rights and Social Justice, London Metropolitan U., UK) here seeks to impart the basic ideas of statistical and probabilistic inference as they relate to health research. He covers normal distribution, approximation to the normal curve, testing samples, Poisson distribution, non-parametric statistics, the Gini coefficient, correlation, and analysis of variance. Published by Radcliffe Publishing, UK, and distributed in the US by BookMasters.
- RA652 978-1-84619-196-1
Basic statistics and epidemiology; a practical guide, 2d ed.
 Stewart, Antony.
Radcliffe Publishing, ©2007 168 p. \$49.95 (pa)
 Students and practitioners of epidemiology and public health will find this resource is directed to their particular needs in learning about study design, data analysis and statistical methods used in conducting medical research. Consultant Stewart makes sure those with limited exposure to statistics get a lot of practice here and includes answers to his exercises as he covers population and samples, random sampling, presenting data, frequencies, percentages, proportions, rates, types of data, mean, median, mode, centiles, standard deviation, standard error, normal distribution, confidence intervals, probability, hypothesis tests and *P*-values, the *t*-test, parametric and non-parametric tests, correlation and regression, the chi-squared test and topics related directly to epidemiology such as measuring association, measuring disease frequency, using case-control and cohort studies and performing randomized controlled trials. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.
- RA652 2006-037449 978-1-4160-3496-4
Epidemiology, biostatistics, and preventive medicine, 3d ed.
 Title main entry. Ed. by James F. Jekel et al.
Elsevier Saunders, ©2007 421 p. \$48.95 (pa)
 The 21 chapters in this medical textbook explain statistical techniques for studying the community origins of health problems and conducting research, and describe methods of primary, secondary, and tertiary prevention. Each chapter ends with example USMLE questions and an explanation of the correct answer. The third edition updates information on bovine spongiform encephalopathy, SARS, the avian form of H2N1 influenza, and obesity.
- RA776 2006-032432 978-0-8493-7474-6
Ageing well; nutrition, health, and social interventions.
 Title main entry. Ed. by Alan D. Dangour et al. (Society for the Study of Human Biology; 47)
CRC / Taylor & Francis, ©2007 178 p. \$99.95 (pa)
 Based in part on proceedings of the 47th annual symposium of the Society for the Study of Human Biology, this volume (dedicated to a late chairman of the Society) addresses methodological, research, and policy issues of aging relating to current research on diet, exercise, and retention of cognitive health with increasing longevity. The editors, who are with the London School of Hygiene & Tropical Medicine, introduce 13 chapters written mostly by European contributors who explore the roles of social/economic inequities, housing, the cost of living, quality of life, and social support for older persons.
- RA776 2007-926466 978-0-495-11157-3
Personal health; perspectives and lifestyles, 4th ed.
 Floyd, Patricia A. et al.
Wadsworth Publishing Co., ©2008 556 p. \$96.95 (pa)
 Floyd, Mimmis, and Yelding (Alabama State U.) present a textbook on personal health that focuses on prevention. Major issues such as emotional health and personal relations, stress management, sexuality and contraception, communicable and noncommunicable diseases, physical activity, nutrition and weight management, the use and abuse of drugs, aging and death, and consumer and environmental issues are discussed. There is also an emphasis on diversity as it relates to health and wellness, with more diversity features in each chapter. This edition also incorporates recent research and a new online tutorial and has other ancillary materials.
- RA777 2006-030621 978-1-4129-0949-5
Encyclopedia of health & aging.
 Title main entry. Ed. by Kyriakos S. Markides.
Sage Publications, ©2007 650 p. \$150.00
 Given the “graying” trend of the population of many developed countries, this is a timely reference for libraries, clinicians, researchers, policy-makers, and others. A team of multidisciplinary international contributors, headed by Markides (aging studies, U. of Texas Medical Branch at Galveston), provides a list of entries and reader’s guide to 11 wide-ranging themes/content areas including aging and the brain, diseases and medical conditions, mental health and psychology, sociodemographic and cultural factors, and studies of aging. Also covered are biological theories of aging, complementary and alternative medicine, and Medicare and Medicaid. Cross-referenced entries include disorder causes, treatment recommendations, data graphs and charts, and further readings and references.

RA777 2006-038690 978-0-7377-3427-0

Healthcare.

Title main entry. Ed. by Jan Grover. (Current controversies)
Greenhaven Press, Inc., ©2007 215 p. \$36.20
Articles, book excerpts, historical documents, and other material set out opposing arguments about health care in the US for librarians, teachers, and students. Sections pivot on the questions of whether healthcare should be considered a basic right, whether the existing system can be saved, how healthcare should be reformed, and how it should be transformed.

RA778 978-1-60021-493-6

Women's health in the majority world; issues and initiatives.

Title main entry. Ed. by Laurie Elit and Jean Chamberlain Froese.
Nova Science Publishers, ©2007 236 p. \$79.00
This volume surveys a number of key issues affecting women's health in the majority (developing) world and explores ways that governments, non-governmental organizations, and professional societies can work together to improve the status of women. A sampling of topics: preventing cervical cancer worldwide; the role of education on women's health; and the effects of war on the health of women and children. A diverse group of international contributors includes clinicians, academics, and others specializing in women's health. The editors are affiliated with McMaster U. in Canada.

RA781 2006-940136 978-0-495-11173-3

Principles and labs for fitness and wellness, 9th ed. (personal daily log included)

Hoeger, Werner W. K. and Sharon A. Hoeger.
Wadsworth Publishing Co., ©2008 514 p. \$65.95 (pa)
This textbook presents guidelines for achieving physical fitness, eating healthy, managing weight and stress, reducing cardiovascular and cancer risks, and preventing sexually transmitted diseases. The 39 labs are primarily worksheets for recording the student's personal health habits. The ninth edition updates national disease statistics and the ACSM's guidelines for exercise testing and prescription.

RA781 2006-940839 978-0-495-11193-1

Principles and labs for physical fitness, 6th ed. (personal daily log included)

Hoeger, Werner W. K. and Sharon A. Hoeger.
Wadsworth Publishing Co., ©2006 428 p. \$48.95 (pa)
This textbook presents guidelines for achieving physical fitness, eating healthy, managing weight and stress, increasing cardiovascular endurance and muscular strength, and assessing athletic skills. The 33 labs are primarily worksheets for recording the student's personal health habits. The sixth edition updates national disease statistics and the ACSM's guidelines for exercise testing and prescription.

RA785 2006-038200 978-0-7494-4866-0

How to deal with stress.

Palmer, Stephen and Cary Cooper.
Kogan Page Ltd., ©2007 164 p. \$17.95 (pa)
Taking a self-coaching approach, Palmer (director, Center for Stress Management, UK) and Cooper (organizational psychology and health, Lancaster University) guide readers through identifying and managing the causes and effects of stress in and out of the workplace. After two introductory chapters on the nature of stress and a model of stress, the rest of the book can be read in any order, with chapters on noticing and replacing stress-inducing thoughts and mental images, time management, and physical health interventions. Numerous self-assessments and activities are included, which will help readers develop an action plan for managing stress. A list of UK organizations is included. There is no subject index.

Prices are U.S. "list." They may vary outside the U.S. Bookstores, jobbers, or the presses will fill orders. Do not order books from Book News Inc.

RA969 978-1-85315-639-7

European infection control advisory panel; proceedings.

European Infection Control Advisory Panel Meeting (2d: 2006; Edinburgh, UK) Ed. by Robert LR Hill. (Round table series; 85)
Royal Society of Medicine Pr., ©2007 110 p. \$39.95 (pa)
Drawn from a round table discussion held in February 2006, these proceedings focuses on diseases and situations including methicillin-resistant *Staphylococcus aureus* (MRSA) outbreaks in health care staff. Each discussion is introduced by explanatory material giving basic medical information and case studies, and the discussions include leading experts in Europe on infectious diseases for adults and children. Topics include the importance of the half-life of antiseptics, the new European standard for testing surgical had antiseptics, guidelines for preventing perinatal group B streptococcal infections, experiences with MRSA in Amsterdam and Scandinavia, ethanol absorption after excessive hand disinfection (an another on shorter application times), using e-learning to change patient and health care worker behaviors, and the best practice in designing and testing isolation rooms in hospitals. US distribution by BookMasters.

RA971 2006-023722 978-0-7879-8672-8

Risk management handbook for health care organizations, 5th ed.; v.1. (CD-ROM included)

Title main entry.
Jossey-Bass, ©2006 594 p. \$125.00
This is part of a three-volume set introducing the theory and practice of enterprise risk management in health care settings. Carroll (director, Risk Management Consulting Services, Aon Risk Consultants) and Nakamura (assistant vice president and chief risk officer, Adventist Health) present 20 chapters addressing the essentials (later volumes will focus more specifically on health risks and business risks). Opening chapters discuss health care legal concepts, health care governance, development of a risk management program, and the health care risk management professionals. Other topics covered include risk management metrics, ethics, interpersonal communication skills, health professional credentialing, documentation and the medical record, business claims administration, information technologies, health information management, risk financing, insurance, organizational staffing, emergency management, occupational health and safety, and early warning systems for the identification of organizational risk. The CD-ROM contains some additional resources and tools. Jossey-Bass is an imprint of Wiley.

RA972 2006-035609 978-1-4051-5692-9

ABC of patient safety.

Title main entry. Ed. by John Sandars and Gary Cook.
Blackwell Publishing, ©2007 49 p. \$36.95 (pa)
In the US, the number of patients who suffer injury, disease or death from medical mistakes, sloppy paperwork or even inappropriate secondary care (such as bedsores, abuse or poor transfers) is appalling. Some argue that statistics on failures in patient safety run side by side with those for heart disease or certain cancers. This practitioner's guide to the basic elements of patient safety includes enough information to get early students in medicine, nursing, and various technical and therapeutic fields familiar with how to transport patients, keep them labeled correctly, give them the right meds, and avoid cutting off the wrong body part. Although intended for novices, some professionals could make use of this in in-service situations or retraining as a first step toward putting the patient first. It is also remarkably free of efforts to put the concerns of the insurers of the hospital or other care facility above the concerns of humane, gentle care.

RA975 2007-000079 978-0-309-10173-8

Hospital-based emergency care; at the breaking point.

Title main entry. Ed. by Committee on the Future of Emergency Care in the United States Health System, Board on Health Care Services. (Future of emergency care series)
National Academies Press, ©2007 397 p. \$49.95
This volume contains one of three reports produced by the National Academies' Institute of Medicine Committee on the Future of Emergency Care in the United States Health System, charged with examining the current state of the emergency care system; its strengths, limitations, and future challenges; the desired state of the system; and strategies for achieving that state. As the title indicates, this report focuses on hospital-based emergency care and focuses on the changing role of the hospital emergency department and the national epidemic of overcrowded emergency rooms and trauma centers. It addresses such issues as uncompensated emergency and trauma care, availability of specialists, medical liability exposure, management of patient flow, hospital disaster preparedness, and support for emergency and trauma research. The other two reports are *Emergency Medical Services at the Crossroads* and *Emergency Care for Children: Growing Pains*.

RA981 2006-934247 978-1-59940-031-0

How to meet the most challenging Joint Commission requirements for hospitals.

Title main entry.

Joint Commission Resources, ©2007 150 p. \$75.00 (pa)

Published by Joint Commission Resources, an affiliate of the Joint Commission on Accreditation of Healthcare Organizations, this volume outlines compliance challenges that hospitals deal with when trying to meet their requirements. Described are patient-focused and organization and structure-related requirements such as provision of care, treatment, and services; medication management; surveillance, prevention, and control of infection; leadership; management of the environment and information; medical staff; and National Patient Safety Goals for hospitals, based on 2005 data. Strategies to meet the accreditation standards are also covered. Standards discussed are the ones that were most frequently cited as "not compliant" during 2005. The audience for the book is hospital performance improvement professionals, staff educators, and Joint Commission coordinators, compliance officers, and accreditation coordinators.

RA1199 2006-100242 978-0-470-04962-4

Computational toxicology; risk assessment for pharmaceutical and environmental chemicals.

Title main entry. Ed. by Sean Ekins. (Wiley series on technologies for the pharmaceutical industry)

Wiley-Interscience, ©2007 814 p. \$140.00

Ekins (pharmaceutical sciences, University of Maryland) compiles international work on computational methods in toxicology, using computers for toxicology assessment in pharmaceutical and environmental contexts, and future and regulatory perspectives. Chapters are written by contributors from industry, academia, and regulatory authorities. Currently available molecular-modeling software for toxicology is reviewed, and its role in testing strategies for different types of toxicity is discussed. The book is for laboratory toxicologists, and scientists of all disciplines in the pharmaceutical and chemical industries and environmental sciences. It is of special interest to researchers involved in ADMET, drug discovery, systems biology, and software development. This is the first volume in a series which aims to describe how key technologies are likely to impact the pharmaceutical industry. Emphasis in the series is on applications rather than theory, presented from both industrial and academic perspectives.

RA1220 2006-035219 978-0-8493-7272-8

Mechanistic toxicology; the molecular basis of how chemicals disrupt biological targets, 2d ed.

Boelsterli, Urs A.

CRC / Taylor & Francis, ©2007 399 p. \$69.95

Boelsterli (toxicology, University of Connecticut) examines xenobiotic-induced toxicity with regard to the molecular pathways that underlie these toxic effects. The book forms a conceptual bridge between multiple events at the molecular level and the determinants of toxicity at the physiological and cellular level, and links molecular pathways to more general biomedical contexts. Specific examples of drugs, environmental pollutants, and other chemicals highlight the fundamental mechanisms at different toxicokinetic and toxicodynamic levels. There are boxes with background information on various compounds on every page. Chapter key points are also included.

RA1228 2006-007611 1-58829-821-3

Criminal poisoning; investigational guide for law enforcement, toxicologists, forensic scientists, and attorneys, 2d ed.

Trestrail, John Harris. (Forensic science and medicine)

Humana Press Inc., ©2007 181 p. \$39.95 (pa)

Trestrail (toxicology, Center for the Study of Criminal Poisoning, Michigan) surveys information on the use of poison as a weapon in murder. He covers the history of poisoners, types, and profiles of poisoners and victims, as well as crime scene investigation, the forensic autopsy, proving a crime, court aspects, and poisoning in fiction. This edition has been revised and expanded, includes more commonly used poisons in the appendix, and in response to recent cases, discusses the use of antifreeze. The bibliography has been expanded. The book is intended for forensic scientists, police and private investigators, forensic psychologists, and criminal lawyers.

RA1242 2006-100328 978-0-87013-802-7

Cold, clear, and deadly; unraveling a toxic legacy.

Visser, Melvin J.

Michigan State U. Press, ©2007 192 p. \$24.95

The author describes his investigations into the origins and transport of persistent organic pollutants (POPs) such as DDT, toxaphenes, and chlordane in cold northern oceans and the Great Lakes. His narrative addresses both the science of POPs and the institutional politics of tracing their origins to the developing world.

RA1242 2006-032297 1-60021-480-0

Smoking and health research frontiers.

Title main entry. Ed. by Calvin B. Fong.

Nova Science Publishers, ©2007 250 p. \$129.00

Consisting of nine chapters, this volume presents research on smoking cessation and the effects of passive smoking on health. The contributions examine second-hand smoke, the effect of passive-smoke exposure on fertility, cardiovascular effects on adult and children, maternal smoking and its impact on the health of a child, oral health research, and the effects on human plasma tocopherol levels and the periodontal and peri-implant tissues. Chapter authors work in medical and health fields, science, and dentistry around the world. Grammar and spelling errors indicate that the contributions could have used a good proofreader.

RA1270 978-92-4-166057-0

Toxicological evaluation of certain veterinary drug residues in food.

Title main entry. (WHO food additives series; v.57)

World Health Organization, ©2006 87 p. \$27.00 (pa)

This volume contains monographs prepared by the Joint FAO/WHO Expert Committee on Food Additives (JECFA) at their 66th meeting (Rome, 2006). It summarizes data on the safety of residues in food of two antimicrobial veterinary drugs selected for review by the committee—colistin and erythromycin. Although tylosin is also listed in the table of contents, no monograph was prepared due to insufficient data. The volume is not indexed.

PATHOLOGY

RB32 978-1-85315-649-6

Recent advances in histopathology; 22.

Title main entry. Ed. by Massimo Pignatelli and James C.E.

Underwood. (Series: title)

Royal Society of Medicine Pr., ©2007 221 p. \$69.00 (pa)

Designed to get students the best and the latest and also to bring practitioners up to date as quickly as possible, this edition in the series includes both diagnostic and research advances in histology. This edition includes papers on the teaching of pathology in the undergraduate curriculum, recent advances in work on primary carcinomas of the salivary glands, the intricacies of Barrett's esophagus, the concept of epithelial-mesenchymal transition in cancer invasion and metastasis, matrix metalloproteinases in neoplastic progression, new concepts of osteoarthritis, cutaneous pseudolymphoma, liquid-based cytology for cervical screening, pitfalls in the diagnosis of soft tissue tumors, sudden unexpected death in infancy, conducting the non-invasive or minimally invasive autopsy, and a histopathological view of bioterrorism. U.S. distribution by BookMasters.

RB43 2006-024162 978-1-58829-476-0

Bioarrays; from basics to diagnostics.

Title main entry. Ed. by Krishnarao Appasani.

Humana Press Inc., ©2007 269 p. \$99.00

'Bioarrays' is a collective term for biological array technologies that have revolutionized the field of genomics/gene expression analysis over the past decade, as Appasani (founder/CEO, GeneExpression Systems, Inc., Waltham, MA) explains in introducing 17 chapters. International scientists review applications of bioarrays as a valuable research tool in the molecular characterization of human genetic and infectious diseases, their future potential as diagnostic devices, and methodological issues. Edwin Southern (U. of Oxford), a pioneer in oligonucleotide arrays, contributed the foreword. A portion of book sale proceeds are earmarked for the Dr. Appasani Foundation, which fosters social change through education in developing countries.

- RB55 2006-032048 978-1-58890-546-8
Atlas of CSF cytology.
 Kluge, Harald et al.
Thieme Medical Publishers, ©2007 139 p. \$149.95
 Designed as a clinical and laboratory reference, this atlas covers all aspects of the cytological examination of cerebrospinal fluid. CSF cytological findings are illustrated with some 300 color images obtained from clinical studies. Particular attention has been paid to the presentation of typical cytological pictures in the acute and remission phases of diseases of the central nervous system. Kluge is former head of the Central CSF Laboratory at the U. of Jena, Germany. This is a revised translation of a volume published in German in 2005 under the title *Atlas der Praktischen Liquorzytologie*.
- RB111 2006-047515 1-4160-2973-7
Robbins basic pathology, 8th ed.
 Title main entry. Ed. by Vinay Kumar et al.
Elsevier Health Sciences, ©2007 946 p. \$82.95
 Edited and largely written by professors of pathology from the U. of Chicago, U. of California San Francisco, U. of Washington School of Medicine, and Harvard Medical School, this updated medical textbook presents itself as a balanced, accurate, and up-to-date view of the central body of human pathology that retains a strong emphasis on clinicopathologic correlations and incorporates understandings of the impact of molecular pathology on the practice of medicine. Predominately organized according to organic system, it also includes chapters on cell injury, cell death, and adaptations; acute and chronic inflammation; tissue repair; neoplasia; genetic and pediatric diseases; and environmental and nutritional diseases. The text has been illustrated with around a thousand four-color schematics, flow charts, and diagrammatic representations of diseases. New to this edition are highlighted summary boxes designed to provide students with key "take home" messages.
- RB113 2006-034698 978-0-7890-2388-9
Explaining "unexplained illnesses"; disease paradigm for chronic fatigue syndrome, multiple chemical sensitivity, fibromyalgia, post-traumatic stress disorder, and Gulf War syndrome, and others.
 Pall, Martin L. (Haworth research series)
Harrington Park Press, ©2007 446 p. \$89.95
 In this extensively referenced book, Pall (biochemistry and basic medical sciences, Washington State U., Pullman) argues that the time has come for these chronic, multi-system illnesses that are often discounted as being purely psychogenic (i.e., all in a patient's head) to be recognized as real. He presents evidence that chronic fatigue syndrome, fibromyalgia, multiple chemical sensitivity, post-traumatic stress disorder, and Gulf War Syndrome share a common causal mechanism, a vicious cycle involving elevated levels of nitric oxide and its oxidant product. He advocates a new paradigm of disease to accommodate this mechanism which may account for other disorders as well (e.g., autism, multiple sclerosis). Sample holistic treatment protocols are included.
- RB115 2007-060736 1-4160-3753-5
Coder's resource handbook.
 Diamond, Marsha S.
Elsevier Health Sciences, ©2007 217 p. \$34.95 (pa)
 This reference contains information on medical coding for students, coders, and educators. It includes the most common abbreviations, medical terms, and anatomical structures; coding tools and tools for CPT from the textbook *Mastering Medical Coding*; common ICD-9-CM guidelines and guidelines for coding several specialties; and auditing tools. Diamond (health information technology/medical coding and billing, Central Florida College) also provides labeled illustrations. There is no index.
- RB120 2006-036305 978-1-4051-3290-9
Instant pathology.
 Borley, Neil R. and Bryan F. Warren.
Blackwell Publishing, ©2007 192 p. \$29.95 (pa)
 For hurried medical students, Borley (gastrointestinal surgery, Cheltenham General Hospital, UK) and Warren (gastrointestinal pathologist, U. of Oxford) summarize the principles and clinical relevance of cellular pathology. A dozen chapters written by histopathologists and clinicians covering key conditions in each of the major organ systems are organized by epidemiology/etiology, and microscopic and morphological features. Clinical management is purposely not addressed in this companion to other texts in the series (*Instant Anatomy* and *Instant Physiology*).
- RB131 2006-103169 978-1-57331-697-2
Signal transduction pathways; part D: Inflammatory signaling pathways and neuropathology.
 Title main entry. Ed. by Marc Diederich. (Annals of the New York Academy of Sciences; v.1096)
Blackwell Publishing, ©2007 288 p. \$125.00 (pa)
 This volume of the proceedings of the Academy's meeting "Cell Signaling World: Signal Transduction Pathways as Therapeutic Targets" held January 2006 in Luxembourg addresses current research on signal transduction in such topics as bacterial endotoxin, expression and suppression of cytokine signaling-3, control of human herpes virus Type 8, regulation of apolipoprotein B secretions but not lipids by tumor necrosis factors, signaling pathways used by HSV-1 and by proteinase activated receptors and melphalan's role in the reduction of the severity of experimental colitis. Neuropathology topics include cellular prion protein signaling, triggers of senile plaque, preservation of mitochondria volume in age, the role of selenite on microglial migration, intensive remodeling of Parkinje cell spines, and activation and endocytic internalization of melanocortin 3 receptors in neuronal cells.
- RB155 2006-102379 978-1-59756-109-9
Educating children with velo-cardio-facial syndrome.
 Title main entry. Ed. by Donna Cutler-Landsman. (Genetics and communication disorders series)
Plural Publishing, ©2007 250 p. \$55.00 (pa)
 Ten academics, researchers, and educational consultants from the U.S., Israel, and Switzerland contribute 14 chapters to the first book addressing the educational needs of children with velo-cardio-facial syndrome (VCFS). Following a selection of chapters dealing with the research on VCFS that has been done in various cognitive science labs in the U.S. and abroad, the text features a practical section applying research findings to the classroom setting, describing educational interventions and evaluation of effective practices. The interventions are grouped according to age level, taking into account the unique situations that occur as a child matures. The text also contains appendixes of possible accommodations for specific needs that can be used at any age. For teachers, parents, physicians, and therapists of children with VCFS.
- RB155 2007-000523 978-0-323-04329-8
Elsevier's integrated genetics.
 Adkison, Linda R. and Michael D. Brown. (Elsevier's integrated series)
Elsevier Mosby, ©2007 255 p. \$39.95 (pa)
 Adkison and Brown (both genetics, Mercer U., Georgia) synthesize fundamentals of their specialty that tend to get mentioned in textbooks and examinations for other health science disciplines. Students can use them as brief introductions or quick references when they run across a term of concept that is unfamiliar or unclear. There are only eight volumes in the series, so while somewhat more expensive apiece than baseball cards, much easier to get an entire set of.
- RB155 2006-033374 1-4160-3080-8
Thompson & Thompson genetics in medicine, 7th ed.
 Nussbaum, Robert L. et al.
Elsevier Health Sciences, ©2007 585 p. \$62.95 (pa)
 Using examples drawn from medicine, Nussbaum (chief, Division of Medical Genetics, University of California-San Francisco) introduces undergraduate and graduate students to fundamental principles of human and medical genetics. Emphasis is on the genes and molecular mechanisms operating in human diseases. Reflecting changes in the field since the last edition was published in 2004, this seventh edition contains more examples of how genomics is being used to identify the contributions made by genetic variation to disease susceptibility and treatment outcomes. Clinical cases, first introduced in the previous edition, continue to be an important part of the text. New features include cases on more common complex disorders, and within-text case cross-references. The art program features b&w photos, two-color diagrams, and color images in the case section. The text is suitable for a range of readers, including medical and genetic counseling students, advanced undergraduates and graduate students in genetics, residents in any field of clinical medicine, and practicing physicians and allied medical professionals in nursing or physical therapy.

Leading edge antioxidants research.

Title main entry. Ed. by Harold V. Panglossi.

Nova Science Publishers, ©2007 266 p. \$129.00

Free radicals (oxidants) can significantly damage the cells of the body, suggesting that anti-oxidants can play a major role in the prevention and treatment of disease. This volume collects seven recent research articles on anti-oxidants. Topics include the anti- and prooxidative effects of flavonoids, comparison of the antioxidative properties of green and black tea, food processing and antioxidants, radioprotective effects of antioxidants, antioxidant therapy for chronic inflammatory diseases, and impact of oxidative stress on diabetes mellitus and inflammatory bowel diseases.

INTERNAL MEDICINE, PSYCHIATRY**Hutchinson's clinical methods; an integrated approach to clinical practice, 22d ed.**

Title main entry. Ed. by Michael Swash and Michael Glynn.

Elsevier Saunders, ©2007 547 p. \$69.95 (pa)

First published in 1897, *Hutchinson's Clinical Methods* has taught generations of medical practitioners the fundamental clinical skills of history-taking and examination. Updated to reflect new methods and technologies, the 22nd edition of this classic textbook still retains its emphasis on the doctor-patient relationship. Following a general overview of clinical assessment are five chapters on the core bodily systems. The chapters that follow describe clinical methods relevant to particular clinical specialties and special populations. Color photographs and other illustrations accompany the text throughout. The editors are affiliated with St. Bartholomew's and the Royal London Hospitals.

Men's health; how to do it.

Title main entry. Ed. by David Conrad and Alan White.

Radcliffe Publishing, ©2007 183 p. \$45.00 (pa)

Folk wisdom tells us men traditionally are reluctant to consider their health, leading one to suspect many would prefer to ignore an accidental amputation or wait until the end of the game to attend to that pesky heart attack. However, what little research has been done on men's health indicates men do seek and receive health care and treatment, with ethnic and cultural variations, and they are in need of programs and policies that address their specific needs. In this collection of articles, written for policy makers and health care professionals, researchers describe health care promotion, sexual health, weight management, smoking, erectile dysfunction and male infertility, relationships education for boys, anti-bullying, and issues relative to minorities. Articles also cover how to work with specialty clinics and like institutions. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.

The foundations of primary care; daring to be different.

Sturmberg, Joachim P.

Radcliffe Publishing, ©2007 217 p. \$49.95 (pa)

For healthcare professionals, general practitioners, and students, Sturmberg (general practice, Monash U., Melbourne, and Newcastle U., Australia) surveys the history and role of primary health care. He discusses how medical thinking and practice has been shaped, and the history and philosophy of health care, including medical education. Medical practices and social engagement in society are described, with discussion of attitudes about disease, illness, and health, how medicine must adapt to understanding patient needs, general practice and family medicine and the relationship between the patient and doctor, and its emergence as a discipline focused on the improvement of personal health. HIV/AIDS is used as an example of how disease shapes society, and other chapters address socio-economic disadvantage, the effects of the market on health care, and income inequality. The final section focuses on how primary health care can be improved and become more equitable. Published by Radcliffe Publishing, UK; US distribution is by Bookmasters.

Integrated medical sciences; the essentials.

Title main entry. Ed. by Shantha Perera et al.

John Wiley & Sons, ©2007 328 p. \$50.00 (pa)

In this review text, Perera et al. (U. of Wolverhampton, UK) use case scenarios to describe the fundamentals of integrated medical sciences for students taking their pre-clinical or basic sciences examinations. These include first or second-year students in medical or biomedical sciences in the UK, nursing degree and allied health students, and US and international medical students preparing for the USMLE Step 1 exam. The scenarios involve a group of characters that are followed through each chapter (which are organized by organ system), in addition to chapters on the hematological and immune systems, inheritance, and the principles of infection. Each contains clinical scenarios involving common disease conditions and basic medical science principles relating to anatomical, physiological, biochemical, pharmacological, and pathological principles and facts. Several questions are posed and answered about each scenario.

Differential diagnosis in internal medicine; from symptom to diagnosis.

Siegenthaler, Walter.

Thieme Medical Publishers, ©2007 1104 p. \$129.95

In 1952 the first German edition of this text appeared; 19 have now been published, and the 19th has been translated into English for the first time. Editor Siegenthaler (emeritus, internal medicine, U. of Zürich) and contributors offer practice-oriented information in a consistent and logically organized format. Coverage begins with general discussion on topics including the medical history, the physical examination, subjective complaints, and the asymptomatic patient (the checkup). Subsequent sections are devoted to organs, systems, or symptoms, for example: the skin and external appearance, fever, pain, edema, hematological symptoms, and head and neck disorders, among others. Material is presented with the aim of helping clinicians identify and understand key symptoms and exclude or confirm diagnoses. Abundant color photographs support the text.

Get through PLAB part 1: 500 single best answer questions.

Coales, Una.

Royal Society of Medicine Pr., ©2006 155 p. \$38.00 (pa)

For candidates preparing for the PLAB examination, this review guide focuses on Part 1 and contains 500 single best answer questions on topics that reflect the current PLAB syllabus, presented in the same multiple-choice format as the exam. The book accompanies *PLAB: 1000 Extended Matching Questions*. Coales is a general practitioner in the UK. US distribution is by BookMasters.

The naked consultation; a practical guide to primary care consultation skills.

Moulton, Liz.

Radcliffe Publishing, ©2007 177 p. \$35.00 (pa)

Writing in a conversational style, Moulton, a general practitioner (GP) and trainer, invites GPs to reflect on and enhance their consultation skills. The book doesn't describe a new model of the consultation process; rather, it relates to several different backgrounds, especially the UK's Neighbour and Calgary-Cambridge consultation, and to counseling frameworks, especially Rogerian counseling, transactional analysis, and neurolinguistic programming. Moulton reviews the phases of the consultation process, then outlines current teaching and learning methods such as videotaping, case analysis, and role playing. Appendices provide a jargon-busting glossary and forms. Distribution in the US is by BookMasters.

- RC78 2007-001193 978-1-4051-5886-2
Comprehensive atlas of high resolution endoscopy and narrow band imaging. (DVD-ROM included)
 Title main entry. Ed. by Jonathan Cohen. (Advanced digestive endoscopy)
Blackwell Publishing, ©2007 318 p. \$194.95
 New technologies have made optical diagnosis through endoscopy even more accessible to the general gastroenterologist, but the learning curve is steep because the results on such systems as high resolution endoscopy (HRE) and narrowband images (NBI) are distinctly different from those on last generation's machines. This comprehensive collection of images fills the gap by presenting over 900 endoscopic images, focusing on those conditions for which NBI has been shown to be particularly effective. Cohen (medicine, New York U. School of Medicine) and contributors allow for the needs new students as well as practitioners in covering the basics of NBI and potential applications, including pharynx, esophagus, stomach, duodenum and colon. The DVD includes hours of narrated video, a searchable database and the complete text.
- RC78 2006-010601 1-60021-140-2
New research on magnetic resonance imaging.
 Title main entry. Ed. by Bernard C. Castleman.
Nova Science Publishers, ©2007 300 p. \$129.00
 This volume collects nine examples of recent research in the field of magnetic resonance imaging, a number of which go beyond traditional medical and biological applications. The papers discuss transient oscillations in high-resolution solid state NMR (nuclear magnetic resonance) spectroscopy, application of high resolution magic angle spinning NMR spectrometry to define the cellular up-take of endogenous and exogenous molecules, magnetization transfer by cross polarization in liquid state NMR spectroscopy, spin-echo in modulated gradient from the spectral analysis of molecular motion, current developments in longitudinally detected electron spin resonance spectrometer for in vivo applications, probing the lung microstructure with diffusion-sensitive helium-3 imaging, examining amide proton relaxation rates of highly deuterated proteins, NMR studies of columnar liquid crystals, and high-resolution MR spectroscopy via adaptive sub-band decomposition.
- RC78 2006-050137 0-398-07705-3
Practical radiographic imaging, 8th ed.
 Carroll, Quinn B.
C.C. Thomas, ©2007 637 p. \$64.95
 The latest edition of Carroll's (radiography, Midland College, Texas) student textbook on radiographic imaging incorporates input from educators and three contributing authors to improve the text and add depth. The eighth edition presents four extensive chapters on digital imaging, with a steady progression from computer fundamentals to the detailed clinical applications of computerized radiography and direct digital radiography, and offers a thorough treatment of technique skills including the proper application of automatic exposure controls, the "how-to" of quality control, and repeat analysis. Illustrated in b&w.
- RC78 2006-043847 0-323-01931-5
Taybi and Lachman's radiology of syndromes, metabolic disorders, and skeletal dysplasias, 5th ed. (web access included)
 Lachman, Ralph S.
Elsevier Mosby, ©2007 1365 p. \$279.00
 Building on the core reference first published over 30 years ago, this edition has been enhanced by some reorganization (two sections instead of three) and with inclusion of the OMM number when appropriate so that the text is friendly for geneticists as well as radiologists and clinicians. Other enhancements include new tables, fuller citation of articles (inclusion of publication year), and web access for more precise searching of the contents. Full descriptions are offered for 1370 entities; brief descriptions of 4,500 entities, with references, are included in a gamuts section. The appendices contain the most recent Nosology and Classification of Genetic Disorders of Bone, and a chapter on the radiographic approach to the skeletal dysplasias (of value to novices as well as those taking the board examinations). Editor Lachman (emeritus UCLA School of Medicine) is affiliated with the International Skeletal Dysplasias Registry at Cedars-Sinai Medical Center, and with Stanford University.
- RC78 2006-029778 978-1-58890-552-9
Ultrasound.
 Schmidt, Günter. (Thieme clinical companions)
Thieme Medical Publishers, ©2007 471 p. \$49.95 (pa)
 Particularly for readers new to ultrasound, but also more experienced practitioners who need an occasional reminder, Schmidt explains the theory and practice of clinical sonography then offers a large collection of B-mode scans, a number of color Doppler images, and several examples of contrast-enhanced sonography. The images are presented first by specific signs and symptoms; then by specific organs and organs systems, post-operative ultrasound, and the search for occult tumors. Accompanying text points out salient features and discusses diagnosis. German editions were published in 1997 and 1999; presumably it is the second that Terry Telger (Translations for the Health Sciences, Texas) has Englished.
- RC79 978-1-85315-674-8
Anaesthesia and the practice of medicine; historical perspectives.
 Sykes, Keith.
Royal Society of Medicine Pr., ©2007 303 p. \$35.00 (pa)
 British anesthetist Sykes, with help from his American colleague John Bunker, describes how medical anesthesia spun off from recreational drug use early in the 19th century and developed into an increasingly sophisticated specialty over the next two centuries. New drugs, political and financial support for research, new challenges such as mechanized war, and changing biological and ethical ideas are among the legs of the journey. Distributed in the US by BookMasters.
- RC81 2006-036138 978-1-59120-192-2
Healing what hurts; fast ways to get safe relief from aches and pains and other everyday ailments.
 Wong, David Y. and Deborah Mitchell.
Basic Health Publications, ©2007 309 p. \$19.95 (pa)
 Dr. Wong (Health Integration Center, Torrance, California) and Mitchell (a medical writer) present a sensible self-help guide to wellness. Following an overview of what people can do to promote good health, they offer a compilation of common ailments organized by body system: their symptoms, causes, prevention, conventional and alternative medicine remedies, and when to seek professional help. The book includes resources and further reading.
- RC81 2006-101571 0-13-156898-1
Wants, wishes, and wills; a medical and legal guide to protecting yourself and your family in sickness and in health.
 Whitman, Wynne A. and Shawn D. Glisson.
Financial Times Prentice Hall, ©2007 302 p. \$24.99
 Whitman, an estate planning and administration attorney, and Glisson, an oncologist and hematologist, provides medical and legal information on making end-of-life decisions for those who are sick or healthy. They aim to offer information that can give control to individuals, helping them to make better choices. They also explain medical and legal terms and concepts. Each section has a chapter on wants, wishes, and choices, and the subjects in them include health care, medical experts, communicating with doctors, drugs, interventions, directives, organ donation, and estate planning.
- RC86 2006-046942 978-0-07-145962-4
Last minute emergency medicine.
 Title main entry. Ed. by Mary Jo Wagner and Susan B. Promes.
McGraw-Hill, ©2007 588 p. \$45.00 (pa)
 Designed to give users the information they need the most in the shortest amount of time, this intensive self-study manual and refresher is geared entirely for use in studying for specialty boards. Sections include clinical photographs and easy-to-remember charts and boxed information, and content logically follows that of the exam. This covers signs, symptoms and presentations; abdominal and gastrointestinal disorders; cardiovascular disorders; cutaneous disorders; nutritional disorders including those that are endocrine and metabolic; environmental emergencies; head, ear, eye, nose and throat disorders; hematologic disorders; immune system disorders; systemic infections; nontraumatic and traumatic musculoskeletal emergencies; nervous system disorders; obstetrics and gynecology; renal and urogenital disorders; thoracic and respiratory disorders; traumatic disorders; and psycho-behavioral disorders. This closes with prompts on procedures and skills and other components of the practice of emergency medicine.

- RC86 2007-920311 978-0-323-04235-2
Medical emergencies in the dental office, 6th ed.
 Malamed, Stanley F.
Elsevier Mosby, ©2007 556 p. \$74.95 (pa)
 Updated to include detailed full color illustrations and the latest in technologies and techniques, this guide is organized to reflect clinical signs and symptoms. Coverage includes preventing possible emergencies, preparing a basic emergency drug and equipment kit, considering legal issues, and dealing with unconsciousness, respiratory distress, altered consciousness, seizures, drug-related emergencies, chest pain and cardiac arrest. Detailed illustrations and photographs accompany instructions for care, and an appendix includes easy-to-follow treatment algorithms. Along with serving as a desk reference this also works for self-study and is accessible enough for other professional providers.
- RC112 2006-013795 0-8160-6397-4
The encyclopedia of infectious diseases, 3d ed.
 Turkington, Carol and Bonnie Lee Ashby. (Facts On File library of health and living)
Facts On File, Inc., ©2007 412 p. \$75.00
 Written in jargon-free language for the layperson, this reference contains 600-plus entries discussing infectious diseases and agents, symptoms, prevention, drug treatments and therapies. Entries on major diseases review cause, symptoms, history, diagnosis, treatment, complications, and prevention. Three appendices list drugs, tips on disinfecting the home, and health organizations' addresses and phone numbers. The third edition adds entries on new vaccines and viruses, defensins, food safety, mycoplasma pneumonia, and neonatal infections.
- RC116 978-1-904933-32-8
Molecular biology of streptococci.
 Title main entry. Ed. by Regine Hakenbeck and Singh Chhatwal.
Horizon Bioscience, ©2007 577 p. \$199.00
 Hakenbeck (microbiology, U. of Kaiserslautern, Germany) and Chhatwal (Helmholtz Center for Infection Research, Germany) present a state-of-the-art review of recent technology and research results in the bacterial genomics of streptococci. The text's 26 chapters discuss a variety of topics, including biologically active peptides in streptococci, structure and biosynthesis of the pneumococcal cell wall, genetic regulation of virulence in *Streptococcus pneumoniae*, genome-wide screening of essential genes of *Streptococcus pneumoniae*, molecular epidemiology and mechanisms for antibiotic resistance in *Streptococcus pneumoniae*, molecular pathogenesis group B streptococcal infections, virulence mechanisms of *Streptococcus suis*, protocol for conjugal transfer of genetic elements in *Streptococcus pneumoniae*, preparation and analysis of pneumococcal murein (peptidoglycan), detection of penicillin-binding proteins, and mouse models of pneumococcal infection. Distributed in the US by Taylor & Francis.
- RC155 2006-024504 978-1-60021-390-8
Research on Lyme disease.
 Title main entry. Ed. by Peter van Nitch.
Novinka Books, ©2007 139 p. \$39.00 (pa)
 Lyme disease can cause disturbances in thinking, headaches, mood swings, irritability, depression and fatigue; and it can also kill. The five articles here cover certain aspects of Lyme disease currently under study, including the effects of co-infection with *Borrelia burgdorferi* and *Anaplasma phagocytophilum* in vector ticks and vertebrate hosts, some epidemiological and epizootological aspects of Lyme *Borreliosis* in Slovakia with emphasis on serological diagnostics, epidemiology and diagnostics of Lyme *Borreliosis* in dogs, and a health promotion approach to planning the prevention of Lyme disease. One author is affiliated with the Centers for Disease Control and Prevention in the US; the others are based in the Slovak Republic, the Czech Republic, Poland, and the Netherlands; the editor's affiliation is not stated. The contributions are referenced extensively and indexed.
- RC162 2007-004959 978-0-8018-8645-4
Cold war, deadly fevers; malaria eradication in Mexico, 1955-1975.
 Cueto, Marcos.
Johns Hopkins U. Press, ©2007 264 p. \$45.00
 Drawing on archival and library materials from Mexico, Europe, and the US, Cueto (history of public health, U. of Peruana Cayetano Heredita, Lima, Peru) examines the interplay of medical, political, and cultural factors in the development of a major effort to eliminate malaria during the 1950s in one of the biggest Latin American countries. His focus narrows from global designs to national decisions, and local responses. A final chapter looks at the resurgence of malaria since the middle 1980s and what can be learned from it.
- RC183 2006-035450 978-0-8047-5489-7
The vaccinators; smallpox, medical knowledge, and the 'opening' of Japan.
 Jannetta, Ann.
Stanford U. Press, ©2007 245 p. \$45.00
 Until the middle of the 19th century almost 20 percent of all Japanese children died of smallpox, most before their fifth year. Those in power largely ignored the decimation, because to do anything about it would be to support Western medicine and Western-trained practitioners. Those same practitioners, supported by Japanese families as well as those who wished to make inroads into the intentionally closed Japanese society, began to practice, in as circumspect a manner as possible, Jennerian vaccination. Jannetta (history emerita, U. of Pennsylvania) traces the roots of the vaccination technique in England to its eventual practice in Japan, noting along the way the complex relationships among players both in Europe and in Asia. The result is a fascinating look at Japanese culture and politics in the last century, and the attitudes of those outside who wanted to at least see in.
- RC186 978-1-904933-27-4
Trypanosomes; after the genome.
 Title main entry. Ed. by David Barry et al.
Horizon Bioscience, ©2007 423 p. \$252.00
 The trypanosome, a parasitic single-cell eukaryote, is responsible for sleeping sickness in humans and nagana in livestock through much of sub-saharan Africa. In this text, the editors (all of the Wellcome Centre for Molecular Parasitology, U. of Glasgow, UK) present 12 chapters describing important facets of trypanosome molecular and cellular biology and exploring the promise of genome sequencing for contributing to further understanding. The chapters discuss genetic recombination in the tritrypanosomes, genome architecture, atypical chromosome types in trypanosome genomes, gene transcription and post-transcriptional regulation, intracellular transport systems, trypanosome specialized surface molecules, and the process of antigenic variation. Distributed in the US by Taylor & Francis.
- RC200 2007-926689 978-1-58829-570-5
Sexually transmitted diseases; a practical guide for primary care. (CD-ROM included)
 Title main entry. Ed. by Anita L. Nelson and JoAnn Woodward.
 (Current clinical practice)
Humana Press Inc., ©2006 355 p. \$99.00
 Sexually transmitted diseases (STDs) are said to account for 5 percent of all outpatient office visits in the US. Affiliated with Harbor/UCLA Medical Center, Dr. Nelson and Woodward (Nurse Practitioner Program) introduce 16 chapters treating STD issues that doctors as well as patients may find awkward to discuss. A chapter is devoted to such communication. Chapters on specific STDs include "fast facts," historical context, the epidemiology, etiology, mode of transmission, clinical manifestations, diagnosis, treatment, prevention, and reporting requirements, plus a case study, discussion questions, and teaching points. The companion CD-ROM contains color versions of the text's images. The volume is dedicated to Felicia H. Stewart, MD, an activist gynecologist.
- RC216 2006-027576 978-1-4051-0474-6
The complete guide to nutrition in primary care.
 Title main entry. Ed. by Darwin Deen and Lisa Hark.
Blackwell Publishing, ©2007 449 p. \$46.95 (pa)
 Deen (clinical, family, and social medicine, Albert Einstein College of Medicine) and Hark (director, Nutrition Education Program, University of Pennsylvania School of Medicine) overview what primary care professionals and registered dietitians should know about nutrition. Coverage encompasses nutrition as preventative medicine, nutrition through the lifecycle, improving health through changes in diet and lifestyle, and vitamins, minerals, dietary supplements, and alternative medicine. In addition to specific information on foods, diet, weight control, and diseases, there are also case vignettes on providing nutrition counseling in the office setting, and advice on changing the office culture to incorporate nutrition into everyday practice. Final chapters describe ways to advocate for change in patients' lives and communities.

RC261 2007-271472 1-55009-307-X

Cancer medicine 7, 7th ed.

Title main entry. Ed. by Donald W. Kufe et al.
B.C. Decker, ©2006 2328 p. \$289.95
★★★★ The 5th ed. appeared in Brandon-Hill as a suggested title for initial purchase; the present volume is an approved publication of the American Association for Cancer Research. Reflecting the advances in molecular biology, the 7th edition contains substantial revision, including the addition of molecularly targeted therapies, a focus on the interdisciplinary management of all patients, and a completely updated immunology. The illustrations have been expanded and now feature 450 color drawings and 140 color photos. The eight editors are affiliated with the MD Anderson Cancer Center of the U. of Texas in Houston, the U. of Chicago, Mount Sinai School of Medicine in New York, Harvard Medical School, and the Cancer Institute of New Jersey in New Brunswick. Most of the 143 chapters are co-authored, providing up-to-date information of cancer science, detection, and treatments from (mainly) American specialists. The online edition attached to the text contains the text, monthly updates, journal links, and a variety of oncology resources. Massive and—at 10x12" and 13.5 pounds—unwieldy, this otherwise excellent text would have been easier to use in a two-volume format.

RC262 2006-101677 978-1-55570-585-5

The Medical Library Association guide to cancer information; authoritative, patient-friendly print and electronic resources.

Title main entry. Ed. by Ruti Malis Volk. (Medical Library Association guides)
Neal-Schuman, ©2007 331 p. \$85.00 (pa)
Having lost a child to cancer, Volk (Patient Education Resource Center, U. of Michigan Comprehensive Cancer Center) knows well the importance of culling reliable information from all the sources on this disease. After explaining key concepts and terminology, she focuses on the incidence, relevant anatomical facts, symptoms, and treatment of 35 major types of cancer in adults and children. The last section addresses issues common to all cancer types, e.g., quality of life, prevention, and medical and practical aspects of survivorship. Reviewed by health professionals, the guide lists annotated print, audiovisual, and Web resources, some specifically for children and care-givers, and patient support organizations.

RC263 2007-003054 978-0-7808-0947-5

Cancer sourcebook; basic consumer health information about major forms and stages of cancer. . . , 5th ed.

Title main entry. Ed. by Karen Bellenir. (Health reference series)
Omnigraphics, Inc., ©2007 1133 p. \$87.00
This reference compiles information from government agencies, non-profit organizations, and periodicals on all types of cancer, treatment, and related issues, written to be accessible to general readers. In addition to material on medical issues (including overview information on alternative medicine and complementary therapy), there is information on coping strategies, emotional issues, and legal concerns. The book's 150 articles are arranged in sections on cancer risk factors and prevention, types of cancer, cancer treatments, and special concerns related to recurrent or advanced cancer. A section on additional help and information contains a dictionary of cancer terms, lists of organizational resources for English and Spanish speakers, and a list of resources for end-of-life issues.

RC267 2006-006734 1-60021-102-X

New developments in cancer research.

Title main entry. Ed. by Lee P. Jeffries. (Horizons in cancer research; v.29)
Nova Science Publishers, ©2007 204 p. \$129.00
This collection of nine articles addresses research into the underlying biological causes of certain types of cancer and approaches to prevention and treatment that are coming from that research. Topics include new insights from gene expression profiling into human hepatocellular carcinoma, germline and somatic mutations in colorectal cancers from patients with hereditary nonpolyposis colorectal cancer, lung cancer screening, progress in the prevention of colorectal cancer, diagnosis and therapy of long-bone adamantinomas, the effects of physical activity in protection against colorectal cancer, the importance of EGFR in tumorigenesis from preneoplastic bronchial lesions to invasive lung cancer, the usefulness of anal endosonography in the assessment of anal carcinoma, and acute phase reactants in hemodialysis and renal transplantation.

RC269 2006-103168 978-1-57331-695-8

Signal transduction pathways; part C: Cell signaling in health and disease.

Title main entry. Ed. by Marc Diederich. (Annals of the New York Academy of Sciences; v.1095)
Blackwell Publishing, ©2007 611 p. \$145.00 (pa)
This volume of the academy's meeting "Cell Signaling World: Signal Transduction Pathways as Therapeutic Targets" held January 2006 in Luxembourg addresses current research on the role of cell signalling in cancer, a range of other diseases and prevention. Topics include the apoptotic effect of celecoxib dependence upon U53 status in human ovarian cancer cells, breast cancer cells' response to antineoplastic agents, the role of a vascular endothelial growth factor in suppression of certain cancers, response of a human melanoma cell to low and high-ionizing radiation, and a study of erufosine. Other topics include the distribution of selenium and zinc, monocyte survival through defines intracellular pathways, insulin expression in rat testes and a new transcript splice variant of the human glucocorticoid receptor, while chemoprevention topics include the effects of wagonin, ginkgolide B, and phenolic phytochemicals.

RC270 2006-101244 978-1-60021-423-3

Tumor markers research perspectives.

Title main entry. Ed. by Geoffrey A. Sinise.
Nova Science Publishers, ©2007 236 p. \$129.00
Tumor markers are molecules occurring in blood or tissue that are associated with cancer. This book presents current research on the analysis of tumor markers. Chapters examine topics including cancer biomarker discovery using mass spectrometry, measurement of tumor oxygenation by electron paramagnetic resonance oximetry, tumor antigens as markers of minimal residual disease in acute myeloid leukemia, and the uses and limitations of prostate specific antigen for the detection of prostate cancer. Other topics covered are tumor markers and endometriosis, characterization of breast cancer subtypes by immunohistochemistry, new research communications on thyroid tumor markers, and melanoma inhibitory activity as a serological marker in metastatic uveal melanoma. Contributions are mainly from Europe, with a few papers from Asia and the US.

RC271 2007-005215 978-0-89603-820-2

Cytokines in the genesis and treatment of cancer.

Title main entry. Ed. by Michael A. Caligiuri and Michael T. Lotze. (Cancer drug discovery and development)
Humana Press Inc., ©2007 482 p. \$179.00
Cytokines have conflicting dual roles in cancer, acting as both promoters and inhibitors of tumor progression. In this collection, contributors describe their research in those roles in cancer biology and cancer immunology. They begin by describing how individual host cytokines contribute to cancer initiation and progression, especially in the cases of *H. pylori*, HTVL-1 and the human herpes virus associated with the genesis of cancer. Subsequent chapters focus on specific cytokines and their seemingly contradictory role in prevention and treatment of some forms of cancer, as proved in human trials, and how cytokines work within such conditions as multicentric Castleman disease and multiple myeloma. Next comes reviews of cytokines and their role in tumor stoma or metastasis, and the final papers cover discoveries in how cytokines can actually figure in treatment, including in combination cytokines therapy, vaccines, anticytokine therapy, and in supportive care.

RC271 2006-012653 1-58829-472-2

Gene therapy for cancer.

Title main entry. Ed. by Kelly K. Hunt et al. (Cancer drug discovery and development)
Humana Press Inc., ©2007 469 p. \$175.00
The editors (of the U. of Texas M. D. Anderson Cancer Center in the US and Inselspital Bern, U. of Bern, Switzerland) present 25 papers that review current ideas and technology of gene therapy and their clinical applications for cancer therapy. The first nine chapters address vectors used in gene therapy against cancer, including adenoviral, lentiviral, retroviral, asphavirus, vesicular stomatitis virus, parvovirus, and nonviral vectors. Attention then shifts to targets and specific approaches for the therapy of cancer in chapters that discuss tumor suppressor genes and apoptosis-inducing genes, gene silencing therapy, tumor targeting-retargeted adenovirus, oncolytic herpes simplex for gene therapy, combination of gene therapy with radiation, gene transfer for chemoprotection and enrichment of hematopoietic stem cells, nonviral genetic vaccines, gene therapy targeted at angiogenesis and lymphangiogenesis, and tumor-specific replicating adenoviruses. Lastly comes a section on clinical applications which covers challenges in developing clinical trials, phase I clinical experience with intravenous administration of an oncolytic virus, development of therapeutic genes for breast cancer treatment, and steps in a translational cancer gene therapy trial.

- RC271 2007-013600 978-3-8055-8199-8
IMRT, IGRT, SBRT; advances in the treatment planning and delivery of radiotherapy.
 Title main entry. Ed. by John L. Meyer. (Frontiers of radiation therapy and oncology; v.40)
 S. Karger, AG, ©2007 437 p. \$196.50
 Intensity modulated radiation therapy (IMRT), image-guidance radiotherapy (IGRT), and stereotactic body radiotherapy (SBRT) have already proven to be significant in the treatment of certain cancers, despite their relatively new technologies. This collection of articles explains these and related technologies and their application to such techniques as organ motion management. Contributors cover the methods and theories behind each, including the obstacles and advances in IMRT treatment planning, four-dimensional imaging and treatment planning for moving targets, introducing new IMRT and IGRT technologies into the clinical setting, specific applications to lung cancer and partial breast irradiation, organizing SBRT data, and conducting SBRT clinical treatment programs for pancreatic cancer and cancer of the prostate, spinal liver, and renal systems. Includes clinical photographs and images.
- RC271 RC271 978-3-527-31056-2
Infections causing human cancer.
 Zur Hausen, Harald.
 Wiley-VCH, ©2006 517 p. \$195.00
 Zur Hausen, a pioneering researcher in the connection between viruses and cancer, provides a detailed overview of what is known about cancer-inducing infective agents—viruses, bacteria, and parasites—and their corresponding transforming capacities and mechanisms. He doesn't cover the structure and molecular biology of the agents in detail, but rather concentrates on those aspects that link the respective agents to human oncogenesis. After a historical overview, early chapters examine infectious agents as direct and indirect carcinogens and look at general aspects of tumors linked to infections. Later chapters cover specific agents including herpes viruses, papillomavirus, hepatitis viruses, flaviviruses, the retrovirus family, other viruses, helicobacter, and parasites. The book is of interest to oncologists, microbiologists, and molecular biologists. The author is retired from the German Cancer Research Center and now acts as editor-in-chief of the *International Journal of Cancer*.
- RC271 2006-015503 978-1-58829-672-6
Regional cancer therapy.
 Title main entry. Ed. by Peter M. Schlag and Ulrike Stein. (Cancer drug discovery and development)
 Humana Press Inc., ©2007 455 p. \$169.00
 In spite of the existence of more targeted agents for systemic therapies, Schlag (Charité U. of Medicine, Germany), Stein (Max-Delbrück-Center for Molecular Medicine, Germany), and Eggermont (Erasmus U. MC—Daniel den Hoed Cancer Center, the Netherlands) believe that regional cancer therapies remain important options for treatment. Aiming their volume at both clinical oncologists and scientists interested in the fundamentals of regional tumor therapy as it relates to optimizing translational approaches, they present 27 chapters that review techniques and prerequisites for regional therapy, including surgical strategies, regional thermotherapy, cryoablation, radiofrequency thermal ablation, photodynamic therapy, ultrasound-guided therapy, nanocarriers, and local gene therapy. They also discuss indications and results for different tumor entities, including metastatic liver tumors, peritoneal surface malignancy, breast cancer, ovarian cancer, bladder tumors, rectal cancer, lung metastases, brain tumors, and pleural malignancy.
- RC280 2007-270041 1-58603-669-6
The 25th Congress of the International Association for Breast Cancer Research; proceedings.
 International Association for Breast Cancer Research Congress (25th: 2006: Montreal, Quebec)
 IOS Press, ©2006 76 p. \$125.00 (pa)
 As the number of women and men diagnosed with breast cancer continues to rise, so does hope from new diagnostic techniques, therapeutic procedures and medications. These proceedings from the September 2006 congress, including poster and podium presentations, reflect both the reality and the hope. Topics include pathology and molecular profiling, signal transduction, receptors and hormones, with a large number of papers and posters describing genomic research and characterization of specific types of tumors. Other specific topics include tracking heredity using multidisciplinary methods, creating three-dimensional models for research and clinical diagnosis, and locating specific proteins that seem to be related to the development of tumors. The editors provide an index of presenters but no other index or table of contents.
- RC280 2006-282016 1-55009-268-5
Cancer and the heart.
 Ewer, Michael S. and Edward Yeh.
 B.C. Decker, ©2006 395 p. \$99.95
 The editors (both of the U. of Texas M. D. Anderson Cancer Center) present 21 chapters that collectively integrate the medical knowledge concerning the interactions of multiple disease states in patients who have cancer and who have or are expected to acquire significant heart disease. A number of chapters explore the effects of cancer treatment on the heart with particular attention to potential cardiotoxic agents such as anthracycline. Others provide an overview of dysrhythmia and imaging technique, with an emphasis on the most common strategies for imaging cardiac tumors and for evaluating cardiac function and anti-cancer treatment. A final set of chapters explores the interaction between the heart and other organ systems in cancer patients.
- RC280 978-1-85315-654-0
Cervical cytology; conventional and liquid-based.
 Titmuss, Edit and Cliffe Adams.
 Royal Society of Medicine Pr., ©2007 126 p. \$69.95 (pa)
 Two associates of the Barts and London NHS Trust introduce liquid-based cytology for British laboratories reporting to the National health service cervical screening program (NHSCSP). Color micrographs illustrate the characteristics of benign glandular lesions, cervical intraepithelial neoplasia, malignant cells, and iatrogenic changes. The opening chapters walk through the procedure for collecting both conventional and liquid-based cervical samples, review anatomy, and recommend guidelines for assessing the adequacy of smears. Spiral binding. Distributed in the U.S. by BookMasters.
- RC280 2006-039396 978-1-58829-453-1
Molecular pathology of gynecologic cancer.
 Title main entry. Ed. by Antonio Giordano et al. (Current clinical oncology)
 Humana Press Inc., ©2007 226 p. \$169.00
 Convinced that cancer is mainly a disease of the cell cycle, these contributors work within specific issues raised by gynecological cancers, proposing a holistic approach to the treatment of female cancer patients. They cover ovarian cancer, including articles on a model of ovarian serous carcinogenesis, endometrial cancer at the molecular level and as a genetic study, cervical cancer and the impact of HPV and vaccination, gestational trophoblastic disease, hereditary issues in gynecological cancer, including those involving ovarian and endometrial cancer, and the efficacy of multidisciplinary approach to these cancers. The volume includes the latest in clinical trials (such as the ongoing phase I and II clinical trials for different HPV vaccine preparations), is well-illustrated and contains references.
- RC280 2007-003216 978-1-58890-309-9
Oral cancer; diagnosis, management, and rehabilitation.
 Title main entry. Ed. by John W. Werning.
 Thieme Medical Publishers, ©2007 354 p. \$129.95
 Typically, textbooks on managing cancer of the head and neck are collections of chapters by specialists in the several medical fields that are involved. The problem is that readers and students are left with fragments of the whole that they must somehow assemble with little guidance. In contrast, the contributions here, from the necessary specialties, are interwoven into a unified management philosophy that is multi-disciplinary and evidence-based.
- RC280 2007-008451 978-0-275-99469-3
Ordinary miracles; learning from breast cancer survivors.
 Nathanson, S. David. (The Praeger series on contemporary health and living)
 Praeger, ©2007 185 p. \$49.95
 Nathanson (surgery, Henry Ford Health Systems) uses the narratives of male and female breast cancer survivors to help practitioners understand the qualitative end of their patients' experiences. He steps through the various phases we now associate with the cycle of care for breast cancer, including detection, diagnosis, surgery, chemotherapy, radiation, and, hopefully, the long road ahead after treatment. He also uses a number of case studies in which survivors recount their physical experiences and the means by which they gathered courage, strength, and a sense of self-healing, whether found in crisis and maintenance spirituality, the support of family and friends, or in alternate means such as positive self-feedback. The narratives are overwhelmingly in support of trust in the medical system, and the patients are keenly aware they will be "survivors" for the rest of their lives.

- RC280 2006-006296 1-60021-095-3
Progress in skin cancer research.
 Title main entry. Ed. by V. L. Heinz. (Horizons in cancer research; v.30)
Nova Science Publishers, ©2007 189 p. \$129.00
 Researchers in oncology and dermatology from around the world consider basic science, but devote most of their attention to reporting recent developments in clinical aspects of diagnosis and treatment and in epidemiology. Nine studies consider the incidence of melanocytic naevi (moles) in young children, preliminary results of a melanoma referral center on the trends in malignant melanoma in Turkey, biopsy of the sentinel lymph nodes in the malignant melanoma of the skin, radiation and non-melanoma skin cancers, and other topics.
- RC281 2006-027487 978-1-4051-4268-7
Evidence-based pediatric oncology, 2d ed.
 Title main entry. Ed. by Ross Pinkerton et al.
Blackwell Publishing, ©2007 565 p. \$199.95
 Pinkerton (Mater Children's Hospital, Brisbane, Australia) provides summaries of the published results of the randomized trials which are the basis for many of the current treatment recommendations for childhood cancer. Material is in sections on solid tumors, leukemia, and supportive care in pediatric oncology. This second edition covers additional trials and offers new reviews and section commentaries from internationally recognized pediatric oncologists and hematologists. The section commentaries are written to focus on major conclusions from the studies presented and also on future research priorities. The book provides access to background information for those involved in trial design, and will also be of value to those early in their oncology careers.
- RC311 978-92-4-156339-0
Global tuberculosis control; surveillance, planning, financing; WHO report 2007.
 Title main entry.
World Health Organization, ©2007 270 p. \$36.00 (pa)
 This report contains the latest information on the results of national tuberculosis (TB) control programs. It presents the World Health Organization's (WHO's) assessment of the scale and direction of the epidemic, expressed in terms of incidence, prevalence, and deaths for 22 high-burden countries, for the six WHO regions, for selected subregions, and for the entire world. The tables and annexes in this report give estimates of all three indicators (global incidence rate, prevalence, and death rates) and their trends, for all countries and regions, in 1990 and 2005. In addition to information on case notifications and treatment outcomes, the report also presents an overview of the progress being made by national TB control programs on all components of the Stop TB Strategy, linking the activities in countries with funding sources, costs, budgets, and expenditures. Opening sections of the report examine methods, results, and conclusions, with detailed text supplemented by two-color maps, charts, graphs, and tables.
- RC341 2007-006745 978-0-323-03409-8
Elsevier's integrated neuroscience.
 Nolte, John. (Elsevier's integrated series)
Elsevier Mosby, ©2007 245 p. \$39.95 (pa)
 The series is intended to respond to the increasing integration of several disciplines in health science examinations—to say nothing of research and practice down the road a few years. Each volume summarizes those aspects of a particular discipline that are most germane to students in other areas of health sciences. Here Nolte (cell biology and anatomy, Arizona Health Sciences Center, Tucson) takes on the specialty that deals with the nervous system, emphasizing the central nervous system. Case studies with solutions are included at the back.
- RC346 2006-038415 978-0-7279-1811-6
Evidence-based neurology; management of neurological disorders.
 Title main entry. Ed. by Livia Candelise.
BMJ Books, ©2007 275 p. \$175.00
 A team of international experts headed by Candelise (Cochrane Neurological Network, U. of Milan, Italy) addresses some 100 clinical questions about the treatment and management of neurological disorders ranging from migraines to muscle disorders. After explaining what defines evidence-based medicine in the context of the reality of practicing in the absence of randomized controlled trials (advice: "do not succumb to EBMITIS"), contributors present information on neurological symptoms/problems common to several disorders and major diseases. The 20 chapters typically include background information, a critical review of the evidence for answerable clinical questions, treatments/rehabilitation services, summary tables, and references. Some include clinical scenarios and health research and policy implications. Distributed in the US by Blackwell Publishers.
- RC346 2007-297154 978-0-07-145819-1
First exposure to neurology.
 Title main entry. Ed. by Howard S. Kirshner. (First exposure series)
McGraw-Hill, ©2007 429 p. \$29.95 (pa)
 Written for UK interns facing their neurology rotations but also useful for US students and nonspecialist practitioners, this manages to select just enough information from a very complex field into a format suitable for the first months of training. Patient-centered and reader-friendly, this starts by describing the neurological examination and the localization of neurological lesions. It then runs through neurological symptom complexes, including weakness, clumsiness and ataxia, involuntary movements, gait disorders bladder or bowel dysfunction, vision loss, delirium and dementia, aphasia, headache and numbness. It then lists approaches to specific diseases and conditions, including stroke, essential tumors, carpal tunnel syndrome, myopathies and brain death. The final chapter details neurodiagnostic tests.
- RC346 978-92-4-156336-9
Neurological disorders; public health challenges.
 Title main entry.
World Health Organization, ©2006 218 p. \$36.00 (pa)
 The organization's Department of Mental Health and Substance Abuse presents a study that can provide information to policy makers, and can serve as an awareness-raising tool about the enormous public health threat that neurological disorders pose. After setting out the scope of the problem and projections for the future, it describes public health approaches to dealing with some of the most common disorders, among them epilepsy, multiple sclerosis, neurological disorders associated with malnutrition, Parkinson's disease, and stroke.
- RC355 2006-037516 978-1-4160-2375-3
On call neurology, 3d ed.
 Marshall, Randolph S. and Stephan A. Mayer. (On call series)
Elsevier Health Sciences, ©2007 505 p. \$36.95 (pa)
 Marshall (clinical neurology, Columbia U. Medical Center) and Mayer (clinical neurology and neurosurgery, Columbia U. College of Physicians and Surgeons and Columbia U. Medical Center) present a pocket reference for medical students, house officers, and non-neurologist physicians who care for patients in a hospital. They provide protocols for the assessment and management of neurologic disorders in the emergency room, intensive care unit, hospital floor, or clinic, and use a simulation of the thought processes of an experienced clinical neurologist to explain treatment. Examination, testing, common calls (using a symptom-oriented approach), the management of selected disorders such as multiple sclerosis, cerebrovascular disease, and movement disorders, and neuroanatomic references are included. This edition has updated information to reflect new treatment approaches and the latest drugs and devices. Chapters on headache, demyelinating diseases, infections of the central nervous system, and dementia are enhanced and are by new authors. Additional contributors are neurologists from the US.
- RC359 2006-046700 978-0-7234-3390-3
Specialist training in neurology.
 Smith, Philip E.M.
Elsevier Mosby, ©2007 319 p. \$48.00 (pa)
 Smith (consultant neurologist, University Hospital of Wales, UK) provides a reference for postgraduate trainees in neurology and related specialties. Emphasis is on clinical rather than theoretical neurology, in an overview format featuring bullet points, text boxes, and charts. The book begins with chapters on the neurological consultation and anatomy, then covers topics including blackouts and sleep disorders, headache, dizziness, dementia and coma, stroke, myelopathy and ataxia, neuromuscular disorders, neuropathy and radiculopathy, neurological infections, ophthalmic neurology, and general medicine and neurology. Each chapter begins with a case history and ends with a list of key points. Detailed two-color diagrams and b&w photos and medical images are included.

- RC372 2006-023790 978-1-60021-381-6
New research on epilepsy and behavior.
 Title main entry. Ed. by Keith J. Hollaway.
Nova Science Publishers, ©2007 339 p. \$129.00
 This volume consists of 12 chapters on epilepsy and behavior, with individual chapters focusing on animal models, antiepileptic drugs, the neurochemistry of seizures, stigma perception, language considerations in left temporal lobe resections, new anticonvulsant drugs and psychopathology, suicide risk, clinical and psychological aspects of pregnancy in women with epilepsy, community-based participatory research, stress and depression studies, behavioral treatment, and consciousness. As with other books from this publisher, the editor's credentials are not given and the preface consists of a compilation of the chapter abstracts. Article authors work in psychology, psychiatry, neuroscience, neuropharmacology, and other fields in the US, Europe, and Brazil.
- RC376 2007-009355 978-1-933864-14-3
A practical approach to movement disorders; diagnosis and medical and surgical management.
 Title main entry. Ed. by Hubert H. Fernandez et al.
Demos Medical Publishing, Inc., ©2007 286 p. \$49.95 (pa)
 Movement disorders can range from annoying but medically inconsequential tics to the ravages of Parkinson's disease. Writing for the general practitioner or non-specialist, the authors cover the most common types of movement disorders encountered in clinical practice in this well-organized, symptom-based ("dancing," "jerky," "unsteady") guide. Along with advice on diagnosis, therapeutic algorithms (including tables and scales) this gives medical, surgical, pharmacological and non-pharmacological treatments and interventions. The range of possible therapeutic interventions is impressive and includes what may be considered alternative treatments, and because it is patient-based, considers and comments on nutrition, for which the authors are to be congratulated. This can also serve as a study guide.
- RC377 2006-030464 978-1-932603-17-0
Yoga and multiple sclerosis; a journey to health and healing.
 Fishman, Loren M. and Eric L. Small.
Demos Medical Publishing, Inc., ©2007 273 p. \$21.95 (pa)
 Fishman (rehabilitation, Columbia College of Physicians and Surgeons) was certified to teach yoga by B. K. S. Iyengar in India; Small was diagnosed with multiple sclerosis at age 22 and soon after became a serious student of Iyengar yoga. They combine their perspectives to offer a guide for physicians, physical therapists, nurses, parents, children, or perhaps teachers.
- RC382 2007-008216 978-0-8261-0237-9
Comprehensive nursing care for Parkinson's disease.
 Bunting-Perry, Lissette K. and Gwyn M. Vernon.
Springer Publishing Co., ©2007 311 p. \$45.00 (pa)
 Written by an international team of ancillary health care providers, this resource for nurses offers a comprehensive review of what is currently known about Parkinson's disease (PD) and outlines evidence-based standards of care. A sampling of topics includes the psychiatric realm of PD; deep brain stimulation management; palliative care; psychosocial issues faced by caregivers; and rehabilitation interventions. Some complementary and alternative therapies are discussed in the final chapter. Bunting-Perry is affiliated with the Parkinson's Disease Research Education and Clinical Center at the Veterans Affairs Medical Center in Philadelphia. Vernon teaches nursing at the U. of Pennsylvania.
- RC382 1-85315-745-7
Parkinson's disease in practice, 2d ed.
 Clarke, Carl E.
Royal Society of Medicine Pr., ©2007 99 p. \$39.95 (pa)
 Clarke (neurology, City Hospital and U. of Birmingham, England) updates his award-winning 2001 guide for general practitioners and allied health professionals by incorporating new genetic forms of Parkinson's disease, the availability of SPECT scanning for diagnosis, new medical therapies, and changes in surgery for the condition. Distributed in the US by BookMasters.
- RC386 2006-014475 0-89603-996-X
The clinical neurophysiology primer.
 Title main entry. Ed. by Andrew S. Blum and Seward B. Rutkove.
Humana Press Inc., ©2007 526 p. \$99.00
 This broad and intentionally elementary treatment of the most central topics of clinical neurophysiology is intended primarily for fellows in neurophysiology training but also residents in neurology who are interested in the fundamentals of the specialty. It covers basic considerations; electroencephalography; nerve conduction studies and electromyography; and autonomic testing, evoked potentials, and sleep. The CiP data shows the title Essentials of Clinical Neurophysiology.
- RC386 978-1-933864-06-8
EEG on DVD adult; an interactive reading session. DVD-ROM
 Brenner, Richard P.
Demos Medical Publishing, Inc., ©2007 — p. \$99.00
 On this DVD, Brenner, Professor of Neurology and Director of the EEG Laboratory at the University of Pittsburgh School of Medicine, presents an interactive tool that simulates an actual EEG lab reading session. Aiming at neurology residents, clinical neurophysiology fellows, and neurologists he includes 200 EEG cases, over 400 EEGs, and a self-testing section. Data can be accessed in either audio or text mode. Training is approved for AMA PRA Category 1 credit.
- RC386 978-1-58053-304-1
Matching pursuit and unification in EEG analysis.
 Durka, Piotr. (Artech House engineering in medicine and biology series)
Artech House, ©2007 184 p. \$89.00
 This comprehensive account of the theoretical and mathematical basis of adaptive time-frequency electroencephalogram (EEG) signal analysis includes extensive material on how the corresponding algorithms can be applied to everyday practice. Durka (biomedical physics, Warsaw U.) uses explicit parameters of EEG transients and selective estimates of energy in his applications to such research and clinical areas as sleep, pharmacology and epilepsy research. He covers signals, analysis, the spectrum, time v. frequency, choosing the representation, adaptive approximations and basic practical issues along with analysis of seizures, event-related desynchronization and synchronization and spatial localization of cerebral sources, then describes equations and technical details such as adaptive approximation and matching pursuit, statistic significance of changes in the time-frequency plane and details and tricks of implementation. The result is useful for practitioners as well as students.
- RC386 2007-002876 978-3-8055-8186-8
Transcranial brain stimulation for treatment of psychiatric disorders.
 Title main entry. Ed. by M. A. Marcolin and F. Padberg. (Advances in biological psychiatry; v.23)
S. Karger, AG, ©2007 230 p. \$180.00
 Functional neuro-imaging has recently revealed neuro-anatomical aspects of mental disorders, which has led neuro-psychiatrists to stimulate distinct brain regions, typically with electrical or magnetic pulses, in order to exert therapeutic effects. Researchers and practitioners report findings on such topics as electro-convulsive therapy today, repetitive transcranial magnetic stimulation effects *in vitro* and in animal models, magnetic seizure therapy for depression, and theta burst stimulation.
- RC387 2006-939129 978-0-387-37574-8
Acquired brain injury; an integrative neuro-rehabilitation approach.
 Title main entry. Ed. by Jean Elbaum and Deborah M. Benson.
Springer, ©2007 298 p. \$69.95
 Two neuro-rehabilitation specialists (North Shore-Long Island Jewish Health System, Manhasset, New York) present 16 essays addressing the roles of various medical and clinical specialists in the assessment, treatment, and management of acquired brain injury. Contributors offer perspectives from psychiatry; neuropsychiatry; neurosurgery; neuro-optometry; occupational, speech-language, and balance therapies; nursing; and case management. Causes, symptoms, and stages of recovery are demonstrated in case examples throughout the book.

RC388 2006-018692 1-60021-295-6

New developments in stroke research.

Title main entry. Ed. by Garret D. Ruper.

Nova Science Publishers, ©2007 160 p. \$129.00

The first and longest of the five contributions in this small collection discusses the potential of new stroke prevention and treatment strategies that target inflammation, particularly IL-1 blockade for treating cerebral ischemia after stroke. The remaining chapters explore recent research on laboratory hypercoagulation testing for thrombosis in the cerebrovascular system, care pathways for the management of stroke patients, temporal patterns in stroke occurrence, and the effectiveness of body weight support during treadmill training.

RC394 2006-035433 978-0-7890-2945-4

Smart but stuck; how resilience frees imprisoned intelligence from learning disabilities, 2d ed.

Orenstein, Myrna.

Haworth Pr., ©2007 283 p. \$69.95

The absentminded professors, the gifted writers who cannot spell, the engineers who cannot stand up and speak at meetings—these are people who are skilled in some areas but may be affected by learning disabilities that hamper their communication, memory or focus, and they constitute some 20 percent of the US population. Practitioner Orenstein writes for them and their families, health care providers and teachers as she describes how bright people with learning disabilities can turn what appear to be disadvantages into advantages. She describes the alternatives of shame and resilience, causes of learning disability, and the ways successful people with learning disorders use individually-tailored methods of response to diagnosis, psychotherapy and self-psychology. Orenstein provides new material on the neuro-cognitive roots of learning disorders for this edition and although she is focused on individual fortitude, she provides motivation with relatively little blame.

RC423 2007-009790 978-1-55766-875-2

Augmentative communication strategies for adults with acute or chronic medical conditions.

Title main entry. Ed. by David R. Beukelman et al.

Paul H. Brookes Pub. Co., ©2007 418 p. \$59.95 (pa)

All too often people in situations in which they need to communicate most clearly with others, such as in spinal cord injuries, strokes or neuromuscular conditions, simultaneously suffer the loss of the ability to speak. This comprehensive guide for doctors, nurses, speech pathologists, rehabilitation specialists, occupational and physical therapists not only lists devices but their applications to conditions including brain stem impairment, traumatic brain injury, multiple sclerosis, Parkinson's or Huntington's disease, dementia, amyotrophic lateral sclerosis, and aphasia. Along with the comprehensive text for each condition and treatment options, the accompanying CD-ROM contains over 150 assessment tools, templates of devices, communication boards and other features, making this a treatment tool as well as a reference.

RC423 2006-027675 978-1-55766-879-0

Introduction to clinical methods in communication disorders, 2d ed.

Title main entry. Ed. by Rhea Paul and Paul W. Cascella.

Paul H. Brookes Pub. Co., ©2007 366 p. \$44.95 (pa)

Paul and Cascella (communication disorders, Southern Connecticut State U.) present a text based on standards of the American Speech-Language-Hearing Association and the American Academy of Audiology that introduces clinical practice for communications disorders students so that they can make the transition to being a clinician. It describes what a clinician does, their environment, and general principles of ethics, public policy, cultural sensitivity, and respect for clients and families. In this edition, there is a new chapter on evidence-based decision making in communication intervention and more on current technological advances and multiculturalism. Assessment, physical examination, intervention, communication skills with clients and others, laws, rules, and regulations, and assistive technology are also covered. Some of the chapters have been contributed by other authors who work in speech-language pathology, communication disorders, audiology, education, and other fields.

RC423 2006-102900 978-1-60021-560-5

Speech and language disorders in bilinguals.

Title main entry. Ed. by Alfredo Ardila and Eliane Ramos.

Nova Science Publishers, ©2007 246 p. \$79.00

This collection of articles includes material on disorders that cross languages along with those peculiar to bilingual communicants such as code-switching and code-mixing. Topics include the incidence of bilingualism (about half of all adults speak two or more languages routinely), brain organization, psycholinguistic models of speech production, approaches to the most common disorders, lexical and semantic organization and retrieval, assessment of aphasia and anomia, stuttering, bilingualism across the life span in normal and abnormal conditions, cultural and linguistic diversity in language disorders, speech and language assessment, ethnological and psychological frameworks for intervention and the effects of bilingualism on cognition.

RC428 2006-102015 978-1-59756-049-8

Counseling in communication disorders; a wellness perspective.

Holland, Audrey L.

Plural Publishing, ©2007 298 p. \$52.50 (pa)

Holland (speech and hearing sciences, U. of Arizona) describes, for speech-language pathologists and audiologists, how to help clients with a variety of communication disorders—and their families—identify and use their strengths. The principles she enumerates are based on her clinical work and research as a speech language pathologist, and she emphasizes a “lifespans perspective” that considers different life phases and includes disorders in both children and adults. She stresses positive psychology, which looks at what is right with clients, rather than what is wrong with them. Therefore, one of the themes stressed is wellness, along with living the catastrophe, challenging the concept of the expert, the importance of stories, and understanding and using a crisis model in counseling. Exercises and templates for workshops are incorporated. Counseling of adult children of communicatively impaired parents, those considering cochlear implants, and elderly parents of children with disorders is not covered. A chapter on end-of-life issues is provided by Stan Goldberg, a retired professor from San Francisco State U.

RC437 2007-003433 978-1-55778-862-7

Listening from the heart of silence; nondual wisdom & psychotherapy; v.2.

Title main entry. Ed. by John J. Prendergast and G. Kenneth Bradford.

Paragon House, ©2007 283 p. \$19.95 (pa)

Teachers and practitioners of religion and psychotherapy further develop some of the central themes introduced in *The Sacred Mirror* (2003). Among them are open listening, essential emptiness, spiritual awakening, and embodiment. The core consideration remains the impact of non-dual wisdom on psychotherapy.

RC438 2006-007096 978-1-59051-069-8

False self; the life of Masud Khan.

Hopkins, Linda B.

Other Press LLC, ©2006 525 p. \$35.00

Hopkins (psychiatry, Temple U. Medical School) presents a detailed biography of acclaimed psychoanalyst M. Masud R. Khan (1924-1989). By way of his flamboyant personality and scandalous personal life, his rise in London and subsequent fall, the author also offers a glimpse at the psychoanalytic and creative communities of his times—text includes interactions with Anna Freud, Julie Andrews, Donald Woods Winnicott, and other figures. The author gained special access to Khan's unpublished Work Books, and through this constructed an extensive portrait of Khan's contributions to psychoanalysis and a balanced perspective on his conflicted private and public lives.

RC439 2006-021670 978-1-4051-3308-1

Handbook of psychosocial rehabilitation.

Title main entry. Ed. by Robert King et al.

Blackwell Publishing, ©2007 227 p. \$49.95 (pa)

King et al. (graduate mental health program and occupational therapy, U. of Queensland and The Park, Centre for Mental Health, Brisbane, Australia) provide a clinical handbook for multidisciplinary mental health practitioners that focuses on rehabilitation within the context of a commitment to recovery, a biopsychosocial framework, and evidence-based practice. They also give an overview of major severe mental health conditions and associated disabilities and factors that impact recovery, in addition to discussing the lived experiences of those in recovery. Other topics consider the therapeutic relationship, individual assessment and the development of a collaborative rehabilitation plan, working with families, case management, community participation, vocational rehabilitation, substance abuse, early intervention and relapse prevention, and service evaluation.

- RC439 2006-010837 978-1-4051-4666-1
Occupational therapy evidence in practice for mental health.
 Title main entry. Ed. by C. Long and J. Cronin-Davis.
Blackwell Publishing, ©2006 196 p. \$49.99 (pa)
 This collection of nine papers gives occupational therapists and students a basic background in issues of mental health sufficient to assist in evidence-based care. It starts with an analysis of what happens in evidence-based practice when occupational therapy and mental health care coincide, then addresses common and specific applications including ADHD in a classroom setting, major depression, cases of severe and enduring mental illness, female survivors of childhood sexual abuse, personality disorders, learning disabilities and dementia in concert or separately, and exploring narratives of experiences of occupational therapists working with patients with dementia.
- RC445 2007-003766 978-0-8166-4940-2
The architecture of madness; insane asylums in the United States.
 Yanni, Carla. (Architecture, landscape, and American culture)
U. of Minnesota Press, ©2007 191 p. \$27.50 (pa)
 Yanni (art history, Rutgers U.) examines the nineteenth century concept of therapeutic architecture meant to aid in the treatment of mentally ill people. She considers insane asylums such as the New Jersey State Lunatic Asylum in Trenton and the Buffalo State Hospital for the Insane and how doctors thought patients could be cured if they were treated in specially designed buildings. She aims to contribute to the history of psychiatry as well as the history of architecture. She first examines the architecture of asylums in the late eighteenth century, the concept of moral management of moral treatment, the Kirkbride linear plan of building asylums and alternatives to them such as the cottage plan, and later structures designed by Calvert Vaux, Clarke Withers, and H.H. Richardson. Some stories by patients in the asylums are related, and illustrations and designs are included.
- RC451 2005-032687 978-0-7890-3251-5
British lesbian, gay, and bisexual psychologies; theory, research and practice.
 Title main entry. Ed. by Elizabeth Peel et al.
Haworth Pr., ©2007 183 p. \$34.95
 Therapists in the US tend to rely for each other for information on lesbian, gay and bisexual (LGB) psychology, while those in the UK do the same. This collection of 11 articles seeks to bridge the gap by presenting current theoretical and clinical thinking about mental health issues related to LGB patients in the UK, starting with a review of LGB perspectives in psychological and psychotherapeutic theory and practice, followed by assessments of key contributors and current developments, a theoretical framework and defense for gay affirmation therapy, existential contributions to psychotherapy and gay male clients, an existential-phenomenological exploration of facilitating gay men's coming out, object relations between gay therapists and gay clients, what matters to lesbians and gay men in therapy, community-level issues, safe spaces for LGB young people, gay men with learning disabilities and coming out in the world of sports.
- RC451 2006-031523 978-0-7890-3597-4
Mental health issues of older women; a comprehensive review for health care professionals.
 Title main entry. Ed. by Victor J. Malatesta. (Journal of women & aging; v.19, nos.1/2)
Haworth Pr., ©2007 212 p. \$40.00
 When older women turn to a therapist for help they may well receive inappropriate treatment precisely because they are older women, despite women being the largest consumers of mental health care. The contributors of these dozen or so articles take the high road in allowing for differences inherent in this population and by focusing on conditions clinicians are most likely to encounter, including changes in cognitive functioning, alcohol use, schizophrenia, depressive disorders, anxiety disorders, post-traumatic stress disorder, complex chronic dissociative disorder, sexual problems, eating disorders, and borderline personality disorders across the life span. Women should read this to find out how they will be treated later in life.
- RC451 2007-006292 978-1-932690-37-8
Rocky Mountain region disaster mental health; proceedings.
 Rocky Mountain Region Disaster Mental Health conference (5th: 2007: Casper, WY) Ed. by George W. Doherty.
Rocky Mtn. Region Disaster...Inst., ©2007 109 p. \$24.95 (pa)
 Whether there are more of them, or we are just hearing more about them, it is clear that major disasters, including tsunamis, hurricanes, acts of terrorism and war and even pandemics have caused untold suffering and horror. Featuring major papers presented at the November 2006 conference, these proceedings cover aspects of providing care and treatment for those who have been traumatized in large-scale and small-scale disasters. Topics include cases of large scale trauma such as the Abu Ghraib prison abuse courts martial and suicide bomb victims, cultural issues, including Hurricane Katrina victims, recovery, including the medical myths of resolving stress and dealing with individual suffers of trauma, planning disaster response, compassion fatigue, trauma education, and preparing communities for the deployment and return of military personnel. Published by Rocky Mountain Region Disaster Mental Health Institute of Laramie, Wyoming.
- RC454 2006-037788 978-0-323-03683-2
Practical guide to the care of the psychiatric patient, 3d ed.
 Title main entry. Ed. by Richard J. Goldberg. (Practical guide series)
Elsevier Mosby, ©2007 577 p. \$46.95 (pa)
 This plastic-spiral-bound, pocket (4.5x7.5") reference provides quick access to guidelines on diagnosing and treating psychiatric patients. The goals of the book are to clarify diagnostic categories and terminology, improve recognition of psychiatric problems, demystify the mental status examination, and detail the proper use of psychiatric medications. Material is presented in outline form, with sequential diagnostic and management strategies. The book will be useful to medical students, primary care residents and physicians, medical specialists outside of psychiatry, and mental health clinicians. Goldberg teaches psychiatry at Brown University Medical School.
- RC455 2006-030935 978-0-393-70439-6
Cognitive grief therapy; constructing a rational meaning to life following loss.
 Malkinson, Ruth.
W.W. Norton, ©2007 246 p. \$35.00
 Malkinson describes how professionals can help those who are grieving maintain high functioning in daily activities while also keeping ties with the deceased using cognitive-constructivist strategies. She explains the theoretical foundations of cognitive grief therapy, especially the Two-Track Model of Bereavement and Rational Emotive Behavior Therapy; applying the therapy, with explanatory case studies; and challenges that may arise, as well as managing stress when working with the bereaved. A chapter on working with parents who have lost a child is included. Malkinson is the founder of the Foundation for the Studying of Grief and Bereavement at the School of Social Work, Tel Aviv U., Israel.

- RC455 978-1-84619-181-7
Finding a sacred oasis in grief; a resources manual for pastoral care givers.
 Jeffers, Steve L. and Harold Ivan Smith.
Radcliffe Publishing, ©2007 188 p. \$55.00 (pa)
 Jeffers (Institute for Spirituality in Health) and Smith (American Academy of Grief) offer pastoral care givers of various faith and spirituality traditions a guide to decisive leadership in ministry with the grieving—before a loved one's death, at the time of death, during post-death rituals, and in times of transition that lead to reconciliation with the death. Distributed in the US by BookMasters.
- RC455 2007-010274 978-0-7657-0507-5
The struggle against mourning.
 Kogan, Ilany.
Jason Aronson, ©2007 263 p. \$34.95 (pa)
 Since the mourning process is a psychological necessity that facilitates the integration of dissociated parts of the self and the consolidation of the sense of the identity, Kogan (chief supervisor, Psychotherapy Center for the Treatment of the Child and Adolescent, Romania) is concerned here with overcoming obstacles on the road to mourning. He present psychoanalytic case studies that deal with defense mechanisms that raise impediments to mourning, their function and importance, and the difficulty of relinquishing them. His book consists of two sections, the first of which explores the theme of manic defenses and denial in the individual, while the other explores the impact of unresolved mourning on large groups and is based on his work on Holocaust trauma in Romania and Israel. Unlike works that only discuss clinical successes, Kogan has sought to include cases with varying degrees of success in achieving analytic goals.
- RC456 2007-010266 978-0-470-03392-0
Hughes' outline of modern psychiatry, 5th ed.
 Gill, David.
John Wiley & Sons, ©2007 415 p. \$45.00 (pa)
 This book is an overview of current psychiatry practices in the UK, covering classification, causes and prevention of disorders, history-taking, and mental state examination and investigation. Gill (psychiatry, Lister Hospital, Stevenage: Hertfordshire Partnership NHS Trust) outlines each of the major syndromes, in addition to types of treatment and the psychiatry of special age groups and populations. Case histories are included. This edition has been revised and updated to reflect recent research findings, changes in classification and terminology, and new organizational structures within the National Health Service and the implications of the Mental Health Act. The book is meant for medical students and trainee and practicing psychiatrists.
- RC457 2006-037541 978-0-323-04832-3
Crash course psychiatry.
 Birnkrant, Jonathan and Andrea Carlsen. (Crash course)
Elsevier Mosby, ©2007 225 p. \$29.95 (pa)
 This study guide for medical students preparing to take the USMLE offers concise coverage of the essential concepts of psychiatry. The first section contains 12 chapters, each dealing with a particular clinical presentation. These are followed by descriptions of the etiology, epidemiology, assessment, treatment, and prognosis of various psychiatric disorders. The final section deals with assessment, diagnosis, and pharmacologic and psychological therapies. USMLE-style multiple choice questions are available at a companion website.
- RC459 2006-007110 978-1-59051-173-2
Power games; influence, persuasion, and indoctrination in psychotherapy training.
 Title main entry. Ed. by Richard Raubolt.
Other Press LLC, ©2006 352 p. \$32.00 (pa)
 People who conduct the training and those who have been through them explore the emotional ecology of the groups in which people learn to become psychotherapists at a time when the process seems to have been thrown into crisis by the turn in prevailing epistemology from modern objectivism to postmodern relativism. They cover personal reflections on supervisory experiences, theoretical and technical considerations, and supervisory alternatives.
- RC466 978-1-85775-765-1
Severe mental illness in primary care; a companion guide for counsellors, psychotherapists and other professionals.
 Title main entry. Ed. by April Russello.
Radcliffe Publishing, ©2007 144 p. \$45.00 (pa)
 This guide to managing mentally ill patients focuses on the roles of general practitioners and counselors in the primary care setting and is aimed at counselors, psychotherapists, nurses, and other primary care practitioners. Russello assembles 11 chapters on topics such as severe mental illness, dual diagnosis, counseling and mental health systems, discrimination, pain, political dimensions, life after schizophrenia, the National Health Service and mental health teams, substance abuse, the critical appraisal of mental health literature, and research. Chapters are written by practitioners from the UK, as well as an individual with schizophrenia. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.
- RC467 978-0-8243-3903-6
Annual review of clinical psychology, v.3.
 Title main entry. Ed. by Susan Nolen-Hoeksema et al.
Annual Reviews, ©2007 409 p. \$181.00
 The 16 articles in this collection summarize current evidence about the etiology and treatment of common mental disorders. Two particularly long chapters report on drug abuse among African-American and Hispanic adolescents, and depression among mothers. Other topics include internet methods of delivering behavioral interventions, eating disorder prevention programs, dialectical behavior therapy for borderline personality disorder, unwarranted assumptions about children's testimonial accuracy, and the interrelationships between drinking and family processes.
- RC480 2006-280259 978-0-471-76344-4
The adult psychotherapy progress notes planner, 3d ed.
 Jongmsa, Arthur E. and David J. Berghuis. (Practice planner series)
John Wiley & Sons, ©2006 384 p. \$55.00 (pa)
 This volume contains complete prewritten session and patient presentation descriptions for each behavioral problem in *The Complete Adult Psychotherapy Treatment Planner, Fourth Edition*, with an aim for practitioners to spend less time on paperwork. They are organized alphabetically by 43 different presenting problems, such as anger management, depression, sexual abuse, and vocational stress. Each consists of a menu of sentences that can be used for constructing progress notes based on the behavioral definitions, and therapeutic interventions and statements relating to them. Treatment approaches correspond to *DSM-IV* diagnostic categories and the companion book, and most notes conform to the requirements of most third-party payors and accrediting agencies. There is no index or bibliography. Jongmsa is the series editor and formerly managed a group private practice. Berghuis has a private practice and is coauthor of other titles in the series.
- RC480 2006-280253 978-0-471-76346-8
The complete adult psychotherapy treatment planner, 4th ed.
 Jongmsa, Arthur E. et al. (PracticePlanners series)
John Wiley & Sons, ©2006 341 p. \$55.00 (pa)
 This resource helps psychotherapy practitioners in developing treatment plans using six steps—problem selection and definition, goal development, objective construction, intervention creation, and diagnosis determination—so that they can satisfy the requirements of third-party payors and federal review agencies. For each, prewritten statements and goals are given. The book is alphabetically organized around 43 presenting problems such as chemical dependence, depression, financial stress, eating disorders, low self-esteem, and Obsessive-Compulsive Disorder. It includes a sample treatment plan that conforms to the requirements of most third-party payors and accrediting agencies, and this edition links some chapters to evidence-based treatment. The index lists *DSM-IV* codes only. Jongmsa, series editor, managed a group private practice for 25 years. Peterson is associated with Bethany Christian Services' Residential Treatment and Family Counseling programs in Grand Rapids, Michigan. Bruce is a professor of psychiatry and behavioral medicine at the U. of Illinois.

- RC480 2006-050116 0-398-07711-8
Crisis intervention; a handbook of immediate person-to-person help, 5th ed.
 France, Kenneth.
C.C. Thomas, ©2007 305 p. \$65.95
 France (psychology, Shippensburg University) provides a framework for providing immediate assistance to people in crisis situations, including victims of crime, natural disasters, and terrorist attacks, domestic and relational issues, and police and hostage situations. After two early chapters on core concepts, there is material on different special populations, followed by four chapters on service-related discussions such as case management and alliances with other community organizations. This fifth edition reflects recent research, and contains a wealth of new material on suicide and rape, as well as guidelines for minimum requirements for training programs. The book will be useful to professionals and volunteers who work in crisis centers, hotlines, college counseling centers, hospitals, correctional facilities, youth programs, and other social service programs.
- RC480 2007-001443 978-1-58562-216-0
Gabbard's treatments of psychiatric disorders, 4th ed.
 Title main entry. Ed. by Glen O. Gabbard.
American Psychiatric Pub., ©2007 960 p. \$195.00
 New to the fourth edition of this textbook is expanded coverage of dementia and general updating of all the chapters. The chapters are organized according to DSM-IV-TR, with 57 chapters by psychiatrists in the US and Canada. A brief introduction by the section editor begins each section. The chapters contain a description of the condition, indications and contraindications for diagnosis, treatments, side effects, and full bibliography. Strictly relying on traditional psychiatry and pharmacotherapy, no mention is made of alternative medicine or treatments. Gabbard directs the Psychiatry Clinic at the Baylor College of Medicine in Houston, Texas.
- RC480 2006-024221 978-1-59051-212-8
How people change; the short story as case history.
 Tucker, William.
Other Press LLC, ©2007 322 p. \$25.00 (pa)
 Tucker (psychiatry, Columbia U.) shows practitioners and teachers of medicine how to use short stories to illustrate change at different phases of life. After setting out his method, he presents 16 stories, then discusses each in turn. A final section discusses how to apply short stories in general to clinical work. There is no index.
- RC480 2006-938726 978-0-495-09516-3
Interviewing in action in a multicultural world, 3d ed.
 Murphy, Bianca Cody and Carolyn Dillon.
Brooks/Cole Publishing, ©2008 440 p. \$108.95 (pa)
 Covering phases, skills, and dynamics of professional clinical work, this text demonstrates the importance of relationship building to the growth and development of clinical interviewers and to the growth of client-clinician relationships. Exercises include role-playing activities, journaling assignments, and group activities. The third edition adds chapters on multiculturalism and ethics, and evaluating change.
- RC480 2007-001109 978-0-7657-0389-7
Psychotherapy for neuropsychological challenges.
 Aniskiewicz, Albert S.
Jason Aronson, ©2007 199 p. \$65.00
 Aniskiewicz (psychiatry and neurology, Michigan State U.) describes the use of psychotherapy with patients living with neuropsychological challenges. He discusses the diagnosis and acceptance process, and conditions such as multiple sclerosis, traumatic brain injury and post concussion syndrome, cerebrovascular disorders, degenerative dementias, and elusive diagnoses and challenges associated with them. Treatment is then detailed, using an "attitude of mind approach" that involves having an open mind, an active orientation in treatments, present-moment awareness, a process perspective that recognizes that everything changes, and a balanced view, as well as the use of mindfulness meditation. He provides case vignettes and other clinical material drawn from professional and personal experiences, including psychotherapy, neuropsychological assessment, supervision, and consultation with trainees and colleagues.
- RC480 2007-001450 978-0-7657-0471-9
Sexual boundary violations; therapeutic, supervisory, and academic contexts.
 Celenza, Andrea.
Jason Aronson, ©2007 267 p. \$49.95
 While her primary concern appears to be addressing sexual misconduct by mental health therapists, Celenza (Harvard Medical School) also discusses transgressions in academic, supervisory, and clerical circumstances in this text. She describes the nature and scope of the problem and describes what to do if one uncovers violations, including helping the victim with recovery and providing therapy for the transgressor. She also gives advice on prevention.
- RC480 2006-035939 978-0-7890-2802-0
The therapist's notebook; v2: More homework, handouts, and activities for use in psychotherapy.
 Hecker, Lorna L. and Catherine Ford Sori. (Haworth practical practice in mental health)
Haworth Pr., ©2007 289 p. \$49.95 (pa)
 Hecker (marriage and family therapy, Purdue U. Calumet) and Sori (psychology and counseling, Governors State U.) provide tools for therapists to use in daily practice, including homework assignments, reproducible handouts, activities, and interventions. Vignettes demonstrate their use in different settings. The volume is organized into sections on couples; children, adolescents, and families; adults; groups; trauma and abuse recovery; divorce and stepfamilies; spirituality; and therapist tools. The 34 chapters, which were contributed by therapists from different disciplines and theoretical perspectives, graduate students in the field, and scholars mostly from the US, also cover illness, intimacy, communication, expression of feelings, career development, addictions, dreams, relaxation and visualization, and other issues. Each chapter describes objectives, rationale for use, instructions, suggestions for follow-up, and contraindications. In addition to therapists, the book is appropriate for psychiatric nurses, social workers, and counselor educators.
- RC480 2006-045164 978-1-932462-86-9
Uncommon ground; harmonizing psychotherapy & community to enhance everyday living.
 Polster, Erving.
Zeig, Tucker and Theisen, ©2006 174 p. \$26.95 (pa)
 Polster (psychiatry, U. of California, San Diego), who is also the Director of the Gestalt Training Center in that city, urges practitioners to foster lifetime communal experience that includes elements of the secular, or the everyday, along with the sacred, or the extraordinary. He believes some communities actively use the principles of psychotherapy at the secular as well as the sacred levels, and that members of such "Life Focus Communities" have interconnected, deeply fulfilled lives even when they are individuals or as a community are not totally aware they are using psychotherapeutic principles. He traces the strong connections from moment to moment, event to event, person to person and self to self that create these communities and defines the new role of the therapist within them.
- RC483 978-1-58562-301-3
Study guide to clinical psychopharmacology; a companion to The American Psychiatric Publishing textbook of psychopharmacology, 3d ed.
 Cozza, Kelly L. et al.
American Psychiatric Pub., ©2007 316 p. \$37.95 (pa)
 Arranged into short quizzes that correspond to the 65 chapters in the textbook, this study aid provides 368 questions and explanations of the correct answers that cite the textbook page number for review. The questions test knowledge of neurobiology, drug classes, the biological basis of specific disorders, and drug selection for treatment.
- RC488 2006-038471 978-0-393-70526-3
Attachment-focused family therapy.
 Hughes, Daniel A.
W.W. Norton, ©2007 280 p. \$32.00
 Hughes, who helped develop and practices dyadic developmental psychotherapy in Portland, Maine, introduces this model of family therapy based on theories of attachment and intersubjectivity. The therapist's role is to facilitate attachment and a sense of security by increasing each family member's ability to relate to each other. He discusses what distinguishes this approach from others, its origins in treating abused and neglected foster/adopted children, and ways to facilitate relationship-building. Chapters include case studies and clinical dialog excerpts.

- RC488 2006-020546 978-1-4051-4436-0
Basic family therapy, 5th ed.
 Barker, Philip.
Blackwell Publishing, ©2007 286 p. \$49.95 (pa)
 Barker (psychiatry, U. of Calgary, Canada) provides an introduction to family therapy for those new to the field or in the early stages of training. He enumerates a variety of methods and includes new therapeutic techniques and theories in this edition, as well as discussion of cultural issues, therapeutic challenges, and evidence-based practice and the evaluation of outcomes. More emphasis has been placed on family therapy as a collaborative activity. Topics range from assessment and diagnostic interviews to common and complex problems, marital and sex therapies, research, and ethics. Both authors and subjects are indexed.
- RC488 2006-035687 978-0-7890-2851-8
The group therapist's notebook; homework, handouts, and activities for use in psychotherapy.
 Title main entry. Ed. by Dawn Viers. (Haworth practical practice in mental health)
Haworth Pr., ©2007 247 p. \$39.95 (pa)
 This volume features homework, handouts, and activities for use in group therapy (for individuals, couples, and families) and is meant for beginning or experienced psychotherapists, social workers, guidance counselors, prevention educators, and other group facilitators. Viers brings together 31 chapters written by therapists and academics from the US, beginning with a section on getting started, which includes tips on teaching group facilitation skills and developing a professional disclosure statement. Each exercise addresses the type of contribution, objectives, rationale for use, instructions, suggestions for follow-up, contraindications, and readings and resources. Some incorporate variations and clinical vignettes. Approaches, which range from experiential, behavior, and solution-focused to existential-humanistic and attachment theory, are meant for dealing with coping, self-awareness and management skills, anger management, substance abuse, children of alcoholics, grief and loss, conflict mediation, and parenting, plus specific activities for groups of teens. Viers works as a prevention supervisor at a community service organization in Virginia.
- RC489 2007-926461 978-0-7618-3809-8
Attention deficit hyperactivity disorder as a learned behavioral pattern; a less medicinal more self-reliant/collaborative intervention.
 Wiener, Craig.
Univ. Press of America, ©2007 292 p. \$39.95 (pa)
 This volume examines ADHD through a learning paradigm that interprets behaviors as conditioned and promotes the ideas of autonomy and collaboration. He questions traditional interventions and discusses the learning model, behaviors at school, and a case study that shows the differences between the learning model and the traditional approach. Wiener, a psychologist, is a faculty member in family medicine and community health at the U. of Massachusetts Medical School. He has written another book of the same title, with a different subtitle: *A return to psychology*.
- RC489 2006-276503 1-4129-0772-1
Psychodynamic counselling in a nutshell.
 Howard, Susan. (Counselling in a nutshell series)
Sage Publications, ©2006 104 p. \$60.00
 Howard (U. Surrey, UK) provides a compact introduction to the concepts, skills needed, and the practicalities of psychodynamic counselling. She uses a case study to illustrate the differences between this approach to therapy and other approaches, and she covers its development and its context. All this is packed into a small format: like others in the "Counselling in a Nutshell Series," the book measures 4.5x7"). References and an index are included.
- RC489 2006-933350 978-0-7618-3631-5
Transference and countertransference in non-analytic therapy; double-edged swords.
 Schaeffer, Judith A.
Univ. Press of America, ©2007 237 p. \$41.00 (pa)
 Many contemporary psychologists dismiss the importance of the Freudian concepts of patient transference of unconscious feelings about past conflicts to the therapist and countertransference (therapist's reactions). Despite her non-analytic orientation, Schaeffer, a staff psychologist at a community counseling center in Colorado Springs, believes that these dynamics are supported by neuroscience and relevant to therapeutic outcomes. In this resource for therapists and students, she examines the culturally-contingent forms such feelings may take, and how to decode and positively manage them.
- RC489 2006-051120 0-398-07715-0
Visually speaking; art therapy and the deaf.
 Title main entry. Ed. by Ellen G. Horovitz.
C.C. Thomas, ©2007 225 p. \$56.95
 In introducing ten essays on art therapy with deaf children, adolescents, and adults, as well as hearing children of deaf adults, Horovitz (Nazareth College, Rochester, New York) shares how her childhood experience of becoming temporarily deaf influenced her career choice. She points out that contributors distinguish between the deaf as disabled, and those who consider themselves part of a unique Deaf culture. With case examples, they discuss treating patients who are deaf/multiply handicapped, and how computer software has expanded art therapy applications. Deafness is also examined in international, positive psychology, and program planning contexts. The volume includes artwork and rating scales.
- RC504 2006-012508 978-1-59051-249-4
Traumatizing theory; the cultural politics of affect in and beyond psychoanalysis.
 Title main entry. Ed. by Karyn Ball. (Contemporary theory series)
Other Press LLC, ©2007 389 p. \$35.00 (pa)
 Ball (English and film studies, U. of Alberta, Canada) presents 11 essays that illustrate a range of recent psychoanalytic and critical thinking on the social and political dynamics of affect. According to Ball, what the essays have in common "is their impetus to explore the coalescence of the personal, cultural, social, and political registers of affect not only in the realm of events, but also in the arena of theory itself" as well as their exploration of "the question of how attempts to represent and transmit trauma, mourning, and melancholy between and among generations are inseparable from the ongoing contestation about the authority of any framework of representation (including theory)." Specific topics include the role of cultural milieu in fashioning psychoanalytic thinking about anxiety and vulnerability, the stereotype of the hysterical woman in contemporary rape prevention discourse, reinterpretation of Sigmund Freud's theorizing about war veterans' traumatic nightmares, the cultural politics of Holocaust memory in Germany, the autobiographical writings of Sarah Kofman as an engagement with Freud that seeks to free philosophy from misogynist binaries that censure the feminine and the uncanny, and the problematic Freudian distinction between mourning and melancholia as it relates to the narratives of kinship by adoptive parents and their children.
- RC506 2006-102125 978-0-7657-0528-0
The embodied subject; minding the body in psychoanalysis.
 Title main entry. Ed. by John P. Muller and Jane G. Tillman. (Psychological issues)
Jason Aronson, ©2007 126 p. \$34.95 (pa)
 Psychoanalysts and psychologists suggest various approaches to constructing a theoretical base for considering the notion of embodiment in psychoanalysis, and describe some specific clinical interventions that serve to embody the conceptualizations. Their topics include the body and the metaphor, containment and the use of the skin, and from symptom to enactment and thence to sexual misconduct.
- RC506 2006-102242 978-0-393-70508-9
Fundamentals of psychoanalytic technique; a Lacanian approach for practitioners.
 Fink, Bruce.
W.W. Norton, ©2007 301 p. \$35.00
 A practicing Lacanian psychoanalyst, Fink (psychology, Duquesne U.) is convinced that contemporary approaches to psychoanalytic treatment have lost sight of many of the fundamental insights achieved by Freud, Lacan, and other pioneers. He therefore presents a primer of techniques that seeks to keep the basic tenets of psychoanalysis solidly in its sights. His focus is on elementary techniques, not theory.
- RC512 2006-037490 978-1-84310-369-1
An integrated approach to family work for psychosis; a manual for family workers.
 Smith, Gina et al.
Jessica Kingsley Pub., ©2007 208 p. \$27.95 (pa)
 Based on a course they co-teach at the U. of Gloucestershire, UK, the authors present their integrated family work model for treating psychosis. The manual covers the what, why, when, who, where, and how of the process, from contract-making to evaluation. It includes examples of this shared problem-solving framework, comments by service users, recommended reading, resources, a glossary, and reproducible forms for practitioners' use.

- RC516 2006-037551 978-0-470-04662-3
Bipolar disorder.
 Quinn, Brian. (Wiley concise guides to mental health)
John Wiley & Sons, ©2007 348 p. \$34.95 (pa)
 Using accessible language, Quinn (a clinical social worker in private practice) provides an overview of the entire spectrum of bipolar and related disorders. The emphasis in this resource for mental health professionals, students, and interested general readers is practical, rather than theoretical. The volume is organized into three sections: epidemiology, phenomenology, and diagnosis; differential diagnosis and comorbidity; and treatment. Coverage includes psychosocial, pharmacologic, nonpharmacologic, and multidimensional treatment approaches. The management of suicide risk is also discussed.
- RC516 2007-009981 978-0-470-05823-7
Pharmacotherapy of bipolar disorders.
 Aubry, Jean-Michel et al.
John Wiley & Sons, ©2007 277 p. \$65.00
 Practitioners as well as scholars at the University of Geneva, Aubry, François Ferrero (both psychiatry) and Nicolas Schaad (pharmacy) offer physicians advice on choosing the most appropriate pharmacological treatment for bipolar disorder according to the different parameters that must be considered. They avoid presenting algorithms, which they find too general to apply to any specific case and too outdated to soon. Instead they synthesize the literature and knowledge based on daily clinical practice so physicians can choose according to the whole body of data and the personal history of the patient.
- RC521 978-1-904392-37-8
Dementia; an atlas of investigation and diagnosis.
 McKeel, Daniel W. et al.
Clinical Publishing, ©2007 196 p. \$99.95
 Emphasizing clinical and pathological differential diagnosis, this atlas offers a focused review for healthcare practitioners and trainees and is not intended as a comprehensive reference. An overview of cognitive aging and dementia is followed by chapters on Alzheimer's disease—interviewing, screening, staging, diagnosis; neuropathology of healthy brain aging and of preclinical and clinical Alzheimer's; vascular dementia; dementia with Lewy bodies; the frontotemporal dementias; and miscellaneous dementing disorders. Each chapter includes summary tables of core data, neuroimaging and pathologic illustrations, and literature citations. Three of the four authors are affiliated with Washington University School of Medicine, St. Louis; the fourth, with the U. of Kansas School of Medicine. The format is oversize: 9.75x12". Distributed by CRC Press.
- RC521 2006-036613 978-0-8261-0249-2
Dementia and social work practice; research and intervention.
 Title main entry. Ed. by Carole B. Cox.
Springer Publishing Co., ©2007 434 p. \$55.00
 Aimed at practitioners, this collection of essays describes the social and psychological effects of Alzheimer's disease and other dementias and provides examples of effective social work interventions. Twenty-one contributions from Cox (Fordham U.) and other researchers and practitioners explore such topics as the implications of coexisting medical conditions; support groups for families and caregivers; and quality care in residential settings. Several chapters consider dementia with regard to culture and ethnicity.
- RC521 2007-004393 978-0-89042-298-4
Diagnostic issues in dementia; advancing the research agenda for DSM-V.
 Title main entry. Ed. by Trey Sunderland et al.
American Psychiatric Pub., ©2007 145 p. \$45.00 (pa)
 As part of the preparations for the upcoming revision of the Diagnostic and Statistical Manual (DSM-V), the American Psychiatric Association funded a series of international research planning conferences addressing specific diagnostic topics. This volume contains reports from the workgroup and conference on dementia, which convened in Geneva, Switzerland in September, 2005. Coverage includes a comparison of current diagnostic criteria; a discussion of neuropsychological testing; and a description of the impact of nosology on genetic research. The papers initially appeared in the *Journal of Geriatric Psychiatry and Neurology* (Vol. 19, No. 3, September 2006).
- RC521 2006-034310 978-1-84310-337-0
Person-centred dementia care; making services better.
 Brooker, Dawn. (Bradford dementia group good practice guides)
Jessica Kingsley Pub., ©2007 160 p. \$22.95 (pa)
 Brooker (dementia care practice, U. of Bradford), who is also a practitioner, explains the benefits of real person-centered practice in the care of dementia while being realistic about expected outcomes. Following person-centered care precepts, she advocated valuing patients and those who care for them, treating people as individuals, looking at the world from the perspective of people with dementia and creating a positive social environment in which the patient can experience relative well-being. Although intended for practitioners and policy makers, caregivers will also benefit from this accessible and practical approach.
- RC530 2006-048034 978-0-7657-0469-6
"Torment me, but don't abandon me"; psychoanalysis of the severe neurosis in a new key.
 Wurmser, Léon.
Jason Aronson, ©2007 335 p. \$37.95 (pa)
 Building on his previous work on psychoanalysis, *The Power of the Inner Judge*, in which he stresses the dialectical relationship between conflict and trauma and proposes the notion of "repetition compulsion" as a mechanism seeking to attain symbolic resolution of conflict and trauma, Wurmser (psychiatry, U. of West Virginia) here explores the role of these processes in the understanding and treatment of the severe neuroses. He pays particular attention to the form of "repetition compulsion" he calls "character perversion" and its role in drug addiction, split identity, sadomasochism, and obsessive-compulsive disorder.
- RC531 2006-040979 978-0-393-70469-3
Biological bases of clinical anxiety.
 Burijon, Barry N.
W.W. Norton, ©2007 352 p. \$47.50
 With a focus on pharmacological solutions (no mention is made here of the use of alternative medicine) this text describes in clear prose the biological manifestations of the various symptoms associated with chronic anxiety, PTSD, panic disorder, phobias, and obsessive-compulsive disorder. An introductory chapter summarizes the many psychotherapeutic approaches applied to the disorders. Subsequent chapters discuss the biological basis of each disorder and pharmacological treatments employed.
- RC537 2006-100457 978-1-59147-929-1
Case studies in emotion-focused treatment of depression; a comparison of good and poor outcome.
 Watson, Jeanne C. et al.
American Psychological Assn., ©2007 232 p. \$59.95
 Aimed at students, researchers, and clinicians, this text provides examples of the use of emotion-focused therapy (EFT) in the treatment of depression. Case studies of six good and three poor outcome cases illustrate the principles of EFT and show how treatment progresses. The collection was designed as a companion volume to Greenberg and Watson's *Emotion Focused Therapy for Depression* (2005). Watson teaches counseling psychology at the U. of Toronto, Ontario, Canada.
- RC537 2006-935792 978-1-4129-0276-2
Psychotherapy and counselling for depression, 3d ed.
 Gilbert, Paul. (Counselling in practice)
Sage Publications, ©2007 402 p. \$125.00
 Presented with the intention of building on the approach described in *Cognitive-behavioural Counselling in Action* (Sage, 1988), this work stresses interpersonal themes in the counseling of depressed clients. Opening chapters address issues of the nature of depression and the therapeutic relationship, how interpersonal relationships are affected in depression, the basics of the cognitive approach to therapy, and ways of conceptualizing therapeutic interventions and challenging dysfunctional thoughts and attitudes. The book then turns to a step-by-step approach to the process of counseling depressed clients and addresses issues that arise with the beginning, middle, and termination of counseling. Also discussed are special issues that arise in depressed clients, including shame, guilt, envy, and idealizing.

RC537 2006-005812 978-0-470-03797-3

Psychotherapy for depression in older adults.

Qualls, Sarah Honn and Bob G. Knight. (Wiley series in clinical geropsychology)

John Wiley & Sons, ©2006 274 p. \$60.00

Sixteen academics and practitioners from the U.S. and Scotland contribute ten chapters to a practical, evidence-based resource text explaining how to assess and treat depression using cognitive behavioral therapy, interpersonal psychotherapy, and problem-solving therapy. The text includes extensive use of case material to illustrate specific approaches to advanced practice skills. For mental health professionals who want to increase their expertise in treating an aging population, and graduate students in the field.

RC552 978-1-84619-175-6

Annual review of eating disorders; part 1, 2007.

Title main entry. Ed. by Stephen Wonderlich et al.

Radcliffe Publishing, ©2007 142 p. \$49.95 (pa)

On behalf of busy therapists, physicians, and other professionals the editors selected these ten papers as representative of the latest in research across a range of issues within the field, including an update on prevention of negative body image, a review of the literature about couples with eating disorders, and new information on the intervention and treatment of binge eating, psychosocial risk, self-treatment, assessment, medical complications, comorbidity, the effects of trauma, and classification of eating disorders. US distribution is by BookMasters.

RC552 2007-006645 978-1-58562-270-2

Clinical manual of eating disorders.

Title main entry. Ed. by Joel Yager and Pauline S. Powers.

American Psychiatric Pub., ©2007 462 p. \$49.00 (pa)

Members of the group that produced the American Psychiatric Association's 2006 Practice Guideline for the Treatment of Patients With Eating Disorders have elaborated their first effort in response to requests from clinicians for more detail about the various components of assessment and treatment. They also added some new topics, including night eating and related syndromes, obesity, and patients with anorexia nervosa.

RC552 2006-021083 1-60021-334-0

Eating disorders and weight loss research.

Title main entry. Ed. by Jerome S. Rubin.

Nova Science Publishers, ©2007 175 p. \$129.00

The six articles collected here comprise a multidisciplinary discussion of current research on eating disorders and weight loss. Chapters cover: eating disorders and addiction; a psychosocial view of the gender-related aspects of eating disorders; bulimic behavior in adolescent athletes; behavioral interventions to reduce the rumination of persons with developmental disabilities; the new carbohydrate marker of eating behaviors; and an examination of diets for weight reduction in obesity, cardiovascular disease, hypertension, and the Metabolic syndrome. No editor credentials are provided.

RC552 2006-280545 978-0-471-71425-5

FDNY crisis counseling; innovative responses to 9/11 firefighters, families, and communities.

Title main entry. Ed. by Paul Greene et al.

John Wiley & Sons, ©2006 268 p. \$45.00 (pa)

Greene (psychology, Iona College) and others associated with the Counseling Services Unit of the FDNY and the FDNY/Columbia U. Family Assessment and Guidance Program, detail their approach to mental health response during the aftermath of 9/11 and principles and methods for disaster response that may be helpful to others responding to crises. They describe the history of the New York City Fire Department's Counseling Services Unit, the culture of the department, and how services were shaped to meet specific needs, such as on-site approaches, the Firehouse Clinician Project, in-home programs developed for families with children in which a firefighter parent died, individual psychotherapy, and group therapy. The impact of trauma on family relationships and assisting retirees in transition are also discussed.

RC552 2007-014663 978-1-84310-492-6

A guide to psychological debriefing; managing emotional decompression and post-traumatic stress disorder.

Kinchin, David.

Jessica Kingsley Pub., ©2007 136 p. \$27.95 (pa)

Kinchin discusses Post-Traumatic Stress Disorder and psychological debriefing techniques used to prevent the development of PTSD. He outlines the various models of psychological debriefing and explains the details of Emotional Decompression, which he describes in terms of coming up from deep-sea diving. He also covers defusing, recovery from PTSD, and the training of debriefers. The volume is meant for health practitioners, counselors, psychologists, and other professionals, as well as students. Kinchin, who was medically retired from the police force in the UK after suffering from Post-Traumatic Stress Disorder, facilitates workshops and seminars on PTSD and Emotional Decompression for medical and educational organizations and training courses for emergency services and other groups.

RC552 2006-032823 978-0-19-530850-1

Prolonged exposure therapy for PTSD; emotional processing of traumatic experiences; therapist guide.

Foa, Edna B. et al. (Treatments that work)

Oxford U. Press, ©2007 146 p. \$35.00 (pa)

The authors (professors of psychology at the U. of Pennsylvania and Emory U.) provide step-by-step instruction for conducting prolonged exposure therapy for treatment of post-traumatic stress disorder and other trauma-related symptoms. Prolonged exposure therapy includes education about common reactions to trauma, breathing retraining, repeated in vivo exposure to situations or objects that the client is avoiding because of trauma-related distress and anxiety, and prolonged imaginal exposure to trauma memories. They guide the reader through the session procedures for deploying these techniques and also address how to tailor treatment to the individual. A companion workbook for clients is also available.

RC552 2006-033260 0-89503-365-8

Working with traumatized police officer-patients; a clinician's guide to complex PTSD syndromes in public safety professionals.

Rudofossi, Daniel M. (Death, value, and meaning series)

Baywood Publishing Co., ©2007 244 p. \$46.95

Practitioner Rudofossi (also psychology, New York U.), puts his years as a beat cop to good use in his assessment of what can happen psychologically to those in public service, and offers inside information to professionals and students. He is convinced a simple diagnosis of post traumatic stress disorder is not enough and proposes a new therapeutic regimen that requires cultural competence on the part of the therapist, that culture being police work. He shows how to assess and treat using eco-ethological existential analytic methods within that cultural competence, which he asserts is the only way to achieve any degree of true healing in what is, in reality, an unhealable culture.

RC553 2006-037846 978-1-60021-523-0

Autism research advances.

Title main entry. Ed. by L.B. Zhao.

Nova Science Publishers, ©2007 198 p. \$129.00

The eight chapters in this volume represent current discussions and research on the nature and the treatment or management of autism. Chapters examine the role of play in the development of young patients, the role of parents in diagnosis and care, methods for increasing behavioral flexibility, the potential and shortfalls of modern behavioral language theories, the results of a study of the responses of high-functioning autism and Asperger patients to verbal and musical stimuli expressing different emotions, the language features present in the neurology of autistic patients, the relationship of thimerosal to neurological problems, and the relationship between autism and allergies to cow's milk protein.

RC553 2007-009913 978-1-84310-573-2

A blessing and a curse; autism and me.

Mór, Caiseal.

Jessica Kingsley Pub., ©2007 207 p. \$18.95 (pa)

In this insightful memoir by a creative individual considered retarded, psychotic, even possessed in 1960s Australia, the author/composer relates the early abuse he suffered as the result of the misunderstood disorder of autism. He explains how he coped by dissociating into multiple personalities, and describes his quest leading to acceptance of a unique identity symbolized by a new name meaning "great stone fort." The cover painting is by Mór's wife.

- RC553 2007-000961 978-1-60021-566-7
Cognitive disorders research trends.
 Title main entry. Ed. by H.C. Sentowski.
Nova Science Publishers, ©2007 260 p. \$129.00
 The focus of this volume is research on cognitive disorders, with 10 chapters and three brief expert commentaries presented. A range of topics are covered: head injuries from soccer; testosterone depletion and cognitive impairment in aging men; functioning, impairments, attentional characteristics, and deficits in schizophrenic patients; cognitive skills and delinquency in adolescent boys with a family history of substance abuse; Alzheimer's dementia; Parkinson's disease; and impairment due to inner ear damage. Chapter authors work in the fields of psychology, psychiatry, and neurosciences in Europe, Australia, New Zealand, and North America. Some grammar and spelling errors show that the volume has not been carefully edited. There is no reference to the editor's credentials and the preface is made up of abstracts from chapters, so the chapter without an abstract is not summarized.
- RC553 2007-002889 978-1-84310-552-7
Counselling people on the autism spectrum; a practical manual.
 Paxton, Katherine and Irene A. Estay.
Jessica Kingsley Pub., ©2007 207 p. \$24.95 (pa)
 Paxton, a consultant and counselor, and Estay, a psychologist who teaches at the U. of Calgary, describe counseling techniques for professionals working with individuals with autism spectrum disorders and their families. The guide is not meant to provide tools for directly treating the core features of autism or teaching behavioral skills, but gives techniques for working with emotions, cognitions, meaning making, and coping with the disorder using a cognitive behavioral framework. After enumerating characteristics and cognitive patterns of the disorder, the authors discuss counseling issues and approaches, including general strategies and modifications for cognitive behavioral therapy; depression, anxiety, and OCD techniques; relationships and social skills; stress and relaxation; and emotional expression, identification, and regulation. Case studies are provided. The book is a revised version of Paxton's master's project at the Campus Alberta Applied Psychology Program.
- RC553 2006-038060 978-1-84310-500-8
From isolation to intimacy; making friends without words.
 Caldwell, Phoebe and Jane Horword.
Jessica Kingsley Pub., ©2007 188 p. \$19.95 (pa)
 Caldwell is the developer of an approach to Intensive Interaction for communicating with non-verbal people with severe learning disabilities. In this guide to using her approach, she explores the nature of close relationships, and shows how they are based not so much on words as on the ability to listen and respond in terms that are familiar to the other person. As background, she overviews relevant concepts of intimacy, body language, and theory of mind, and outlines the stresses experienced by people with learning disabilities and with autism. She then covers techniques of Intensive Interaction for establishing contact and building a relationship with non-verbal people, and gives examples of recent encounters with children and adults with autism spectrum disorders and cerebral palsy. The method is accessible to anyone who lives or works with non-verbal people. The author is affiliated with the UK's National Health Social Services and Community and Education Service.
- RC553 2007-007705 978-1-55766-915-5
Making sense of autism.
 Thompson, Travis.
Paul H. Brookes Pub. Co., ©2007 266 p. \$29.95 (pa)
 Aimed at non-expert professionals, this guide to working with children with autism spectrum disorders focuses on those who are two to seven years old—the period when it is most possible to prevent the emergence of severe symptoms. (Some chapters cover mental health problems in elementary and middle-school aged children with ASDs.) Thompson (pediatrics, U. of Minnesota School of Medicine), who has worked with many families with children who have autism, aims to integrate what is known about the neurobiology of autism with behavioral, educational, and pharmacological interventions. He focuses on evidence-based practice and discusses diagnostic criteria, working with families, early intervention, school transition, functional and cognitive behavior strategies, mental health and psychopharmacology, associated disabilities, and cautionary considerations.
- RC553 2007-000009 978-1-4129-0422-3
Personality disorders; toward the DSM-V.
 Title main entry. Ed. by William O'Donohue et al.
Sage Publications, ©2007 398 p. \$43.95 (pa)
 Research and practicing psychologists and psychiatrists consider what changes should be made in the definition and description of personalities disorders to the next edition of the authoritative *Diagnostic and Statistical Manual of Mental Disorders*. They discuss particular personality disorders, among them schizoid, antisocial, histrionic, avoidant, and obsessive-compulsive.
- RC558 2007-007020 978-1-56023-738-9
American psychiatry and homosexuality; an oral history.
 Title main entry. Ed. by Jack Drescher and Joseph P. Merlino.
Harrington Park Press, ©2007 299 p. \$49.95
 In 1973, at an American Psychiatry Association (APA) panel on homosexuality, then considered by the field to be a sickness, a closeted gay psychiatrist disguised his face and voice and entreated his colleagues to de-pathologize homosexuals and to recognize their civil rights. That same year, the APA removed homosexuality from its *Diagnostic and Statistical Manual of Mental Disorders*, leading to the coming-out of other gays in the field, and finally an APA caucus of gay, lesbian, and bisexual psychiatrists. Here Drescher (psychotherapy and psychoanalysis, New York U.) and Merlino (psychiatry, Mt. Sinai School of Medicine, New York) present interviews, most of which were originally published in the *Journal of Gay and Lesbian Psychotherapy*, with the disguised doctor (John E. Fryer) and contemporary and future members of the gay psychiatry community discussing that event and its legacy.
- RC564 2007-001492 978-0-89042-299-1
Addiction treatment; a strengths perspective, 2d ed.
 Van Wormer, Katherine and Diane Rae Davis.
Brooks/Cole Publishing, ©2008 570 p. \$73.95 (pa)
 Van Wormer (University of Northern Iowa) and Davis (Eastern Washington University) describe the biology, psychology, and social aspects of addiction in this textbook prepared for courses on substance misuse. They consider harm reduction therapy as an alternative to strict abstinence for some patients seeking help with alcohol or drug problems. The second edition adds material on patients with war-related trauma and mental health disorders.
- RC564 2007-001492 978-0-89042-299-1
Diagnostic issues in substance use disorders; refining the research agenda for DSM-V.
 Title main entry. Ed. by John B. Saunders et al.
American Psychiatric Pub., ©2007 324 p. \$65.00 (pa)
 This volume presents recommendations from a substance use disorders workgroup and conference held in Rockville, Maryland in February 2005. Sponsored by the American Psychiatric Association, the gathering drew researchers from around the world to draw up a research agenda for substance use disorders diagnosis that will inform the next revisions of the Diagnostic and Statistical Manual (DSM-V) and the International Classification of Diseases (ICD-11). The papers initially appeared in *Addiction* (Vol. 101, Suppl. 1, September 2006).

RC564 2001-046079 978-0-7657-0373-6

Harm reduction psychotherapy; a new treatment for drug and alcohol problems. (reprint, 2001)

Title main entry. Ed. by Andrew Tatarsky.

Jason Aronson, ©2007 368 p. \$29.95 (pa)

This work advances the notion of harm reduction as a new paradigm in the substance use treatment field that sees substance use as varying on a continuum of harmful consequences to the user and the community and therefore accepts small, incremental steps in the direction of reduced harm in treatment. Tatarsky (co-director, Harm Reduction Psychotherapy and Training Associates) presents ten chapters that focus on specific aspects of applications of harm reduction psychotherapy, including its connections to psychoanalytic and cognitive-behavioral strategies, the therapeutic relationship, drug use as self-medication, the impact of trauma, drug use as rebellion against the inner critical voice, and group and residential therapy. Each chapter is accompanied by an illustrative case example drawn from other practitioners' experiences.

RC564 2006-011439 978-0-471-65630-2

Healing addiction; an integrated pharmacopsychosocial approach to treatment.

Martin, Peter R. et al.

John Wiley & Sons, ©2007 248 p. \$39.95 (pa)

Martin (psychiatry and pharmacology, Vanderbilt U. School of Medicine) et al. describe aspects of addiction and how to treat various types, using an approach that combines pharmacological therapy with psychological counseling and social support. Coverage is of symptoms, the historical development of addiction, addiction as a disease, biopsychosocial factors, and the treatment of addiction to alcohol, opiates, cocaine and amphetamines, marijuana and tobacco, behavioral addictions, gambling, and eating disorders. The final chapter addresses recovery and long-term treatment.

RC564 2006-102692 978-1-4129-5130-2

Improving substance abuse treatment; an introduction to the evidence-based practice movement.

Eliason, Michele J. (Sage sourcebooks for the human services series)

Sage Publications, ©2007 189 p. \$54.95

Eliason (U. of California-San Francisco) suggests that the gap between research findings and clinical practice in treating substance abuse can be bridged by identifying, implementing, and maintaining evidence-based practices, clinical practice guidelines, and practice improvements. She explains such aspects as determining what is evidence-based, evaluating evidence-based practices, and data analysis and interpretation.

RC564 2006-031214 978-0-7890-2739-9

Managing your recovery from addiction; a guide for executives, senior managers, and other professionals.

O'Connell, David F. and Deborah Bevvino. (Haworth addictions treatment)

Haworth Pr., ©2007 212 p. \$44.95

The image of addiction almost invariably includes marginalization, degradation and deprivation. But what if the person recovering from addiction is a professional, such as an executive, doctor, accountant or lawyer, driven toward and by success and accustomed to taking responsibility? Practitioners and academics O'Connell and Bevvino (psychiatry and psychology, respectively, Reading Hospital and Medical Center) keep the needs of high achievers in mind as they apply business and professional techniques to the management of the first year of recovery. Although they do not expect this to be a substitute for suitable therapies they do give tools for building, documenting, analyzing and tracking experience and creating sustainable goals with a strategic recovery plan, relapse recovery tools, accessible ways to understand qualitative aspects of recovery such as spirituality or moods and emotions, and ways to achieve sobriety as one achieves social and economic success.

RC564 98-36955 978-0-7657-0545-7

Treating addiction as a human process. (reprint, 1999)

Khantzian, Edward J.

Jason Aronson, ©2007 687 p. \$44.95 (pa)

This reprint from 1999 brings together writings by Khantzian (psychiatry, Harvard Medical School), one of the major psychodynamic theorists of addiction during the second half of the twentieth century. Writing from a psychodynamic perspective, he focuses on the mind and human processes of drug and alcohol addiction. He examines the internal world of the addicted person, the self-medication hypothesis of substance use disorders, understanding addictive vulnerability, and treatment. Some of the writings are in collaboration with other psychiatrists and psychologists. All but three of the chapters have been previously published in books or journals, although some have been condensed. They are presented in chronological order in each section. The three new ones discuss posttraumatic stress disorder and individual and group psychotherapy. The book is intended for students, clinicians, and patients and their families.

RC565 978-0-470-05766-7

Acetaldehyde-related pathology; bridging the trans-disciplinary divide.

Title main entry.

John Wiley & Sons, ©2007 275 p. \$160.00

A Novartis Foundation symposium, September 2006 in London, drew researchers in a wide range of medical specialties from as far away as Japan and Australia, though most are European or North American. Their disciplinary diversity matches that of the pathological impacts of acetaldehyde, which range from whole-body to cellular and molecular scales. The 16 papers, with summaries of discussion about them, explore such aspects as removing acetaldehyde from the body, the role of acetaldehyde in alcohol-associated cancer of the gastrointestinal tract, and pancreatic MAP kinase pathways and acetaldehyde. Summaries to two general discussions are also provided.

RC568 2006-023336 1-60021-378-2

New research on methamphetamine abuse.

Title main entry. Ed. by Gerald H. Toolaney.

Nova Science Publishers, ©2007 194 p. \$129.00

Eighteen academics and researchers from the U.S. and Japan contribute seven chapters reviewing recent findings on methamphetamine (meth) abuse in humans. Coverage includes the background and physiological effects of meth; clinical findings on meth abusers derived using a variety of brain imaging techniques—single photon emission computed tomography (SPECT), positron emission tomography (PET), magnetic resonance spectroscopy (MRS), and functional magnetic resonance imaging (fMRI); and potential therapeutic approaches for the treatment of meth abusers. The book is intended to encourage researchers to develop a more integrated approach in investigating the molecular neurobiology of meth abuse.

RC569 2006-016741 1-59385-371-8

The abusive personality; violence and control in intimate relationships, 2d ed.

Dutton, Donald G.

Gulford Pr., ©2007 262 p. \$35.00

Are we missing the point in the treatment people who abuse others? According to Dutton (psychology, U. of British Columbia) abusers are not just acting out of emotions that lead to assuming inappropriate control. He has found in his research and practice that many have borderline personality characteristics and trauma symptoms requiring different approaches than many therapists currently follow. In this new edition, updated to reflect the latest theory and findings, Dutton takes into account earlier approaches to the treatment of abusers and the reasons why such approaches may or may not have been effective. He goes deeply into the data, describing what it says about rage, attachment, the cycle of violence. Longitudinal development and borderline disorders, and also examines female abusive personalities. He concludes by describing practical, cognitive-behavioral approaches to treatment.

RC569 2006-030674 978-0-19-531989-7

The body project; promoting body acceptance and preventing eating disorders; facilitator guide. (workbook included)

Stice, Eric and Katherine Presnell. (Treatments that work)
Oxford U. Press, ©2007 140 p. \$35.00 (pa)

In this package comprised of a facilitator's guide and 10 staple-bound participant workbooks, Stice (Oregon Research Institute) and Presnell (psychology, Southern Methodist University) outline a two-part group intervention program, based on cognitive dissonance theory, for adolescent and college-aged women at risk for developing eating disorders. The first part of the program contains four sessions encouraging participants to critique the "thin ideal" through discussion, role-playing, and written exercises. The second part of the intervention, also four sessions, is designed to help participants make gradual, permanent lifestyle changes to achieve healthy body weight. The facilitator's guide contains an explanation of cognitive dissonance theory, session outlines complete with exercises, and recommendations on how to train group leaders and recruit participants. The participant workbook contains reflection exercises and space for answers, plus fact handouts and forms for recording food and exercise. The package can be used by school counselors, nurses, and teachers. There is no subject index.

RC569 978-1-84619-134-3

Fabricated or induced illness in a child by a carer; a reader.

Bools, Christopher.
Radcliffe Publishing, ©2007 144 p. \$35.00 (pa)

This reference on fabricated or induced illness (FII) in a child (previously known as Munchausen syndrome by proxy) aims to promote a multi-disciplinary and multi-agency approach with a child welfare focus. It provides easy access to summary accounts of original sources, highlighting the experiences of children's services professionals and victims of FII. The book is designed as part of a multimedia training program, but can be used independently. Readership for the book includes health, social work, and education professionals, police officers, therapists, and mental health workers. The book is distributed in the US by BookMasters.

RC569 2006-035743 978-0-393-06086-7

Stolen tomorrows; understanding and treating women's childhood sexual abuse.

Levenkron, Steven.
W.W. Norton, ©2007 288 p. \$25.95

A psychotherapist in New York City, Levenkron explains the adulthood outcomes of childhood sexual abuse and the damage it wreaks, examining what was going on during the child's growing years and how these experiences affect and shape her growth. He also describes and discusses means of recovery, including forms of psychotherapy, medication, caring friends, support groups, and family involvement.

RC571 2006-021703 978-1-60021-347-2

Focus on medical genetics and Down's syndrome research.

Title main entry. Ed. by Richard A. Firthel.
Nova Biomedical Books, ©2007 195 p. \$129.00

Researchers summarize recent efforts to apply genetics to medicine, paying special attention to Down's syndrome, one of the most common survivable chromosomal disorders. Seven essays consider such topics as the clinical and molecular genetics of neuro-fibromatosis type I, maternal alkaline phosphatase in Down's syndrome pregnancy, and fragile sites on medical genetics.

RC582 2006-031910 978-0-8493-3790-1

Immunotoxicology and immunopharmacology, 3d ed.

Title main entry. Ed. by Robert Luebke et al. (Target organ toxicology series)
CRC / Taylor & Francis, ©2007 646 p. \$199.95

This volume examines immunological impacts that may come from chronic or subchronic exposure to certain chemicals or therapeutic drugs (xenobiotics). It is organized into three major subsections addressing immunosuppression, autoimmunity, and hypersensitivity. This new edition has deleted materials describing the immune system, but greatly expanded coverage of hypersensitivity and added chapters that describe the role of immune mediators in liver, lung, and skin toxicity; in regulating drug and chemical metabolizing enzymes; and in the immunosuppression produced by ultraviolet light, as well as immunotoxicology studies of non-mammalian systems. It also places more emphasis on the interpretation of experimental data for predicting human health risks.

RC591 978-1-904392-18-7

Asthma; an atlas of investigation and management.

Johnston, Sebastian L. et al.
Clinical Publishing, ©2007 132 p. \$99.95

This is a slim volume, slightly oversize (9.75x12.5"), offering a clear, illustrated presentation of the clinical fundamentals. Coverage includes the definition and diagnosis of asthma and its epidemiology, clinical types, etiology, common precipitants, pathology, and treatment, as well as the Churg-Strauss syndrome, assessment and management of patients with acute asthma, and pediatric considerations. Johnston (Imperial College of London) is identified as the author on the title page, but the ten chapters are signed contributions from specialists based in the UK and several countries in Europe, Kuwait, New Zealand, and Canada. Distributed by CRC Press.

RC591 2006-046896 0-07-144737-7

The asthma educator's handbook.

Title main entry. Ed. by Christopher H. Fanta et al.
McGraw-Hill, ©2007 412 p. \$49.95 (pa)

Writing for internists, family physicians, nurses, physician's assistants, respiratory therapists, and pharmacists, Fanta et al. (Brigham & Women's and Massachusetts General Hospital, Boston) provide an evidence-based guide to educating asthma patients and communicating with them about the disease. It covers what asthma is and its relation to allergies; diagnosis; defining its severity; medications and side effects; the use of medications in a stepwise approach based on severity; and the special issues of young children. The second section addresses practical aspects of care, such as what caregivers need to know about measuring lung function and peak flow; identifying and avoiding allergens in different environments; using inhalers; developing action plans; and pulmonary function testing. A chapter on hospital-based management of attacks is included. Much of the content in the book is based on continuing education seminars for allied health professionals presented by the Partners Asthma Center's Asthma Educator's Institute in Massachusetts in 2003. It also relies on asthma practice recommendations of the National Asthma Education and Prevention Program of the National Institutes of Health. There is no bibliography.

RC598 2007-007180 978-3-8055-8269-8

Drug hyper-sensitivity.

Title main entry. Ed. by W.J. Pichler.
S. Karger, AG, ©2007 438 p. \$249.25

Drug hypersensitivity is a prevalent but widely neglected topic, according to Pichler (rheumatology and clinical immunology, Allergology Inselpital, U. of Bern, Switzerland). Standard pharmaceutical reactions (type A) are distinguished from drug hyper-sensitivity reactions (DHRs) (type B), with the 'B' evidently being interpreted as bizarre! Venturing beyond well-known IgE-mediated immunological reactions, he introduces a new model of T-cell-mediated delayed reactions. In 33 chapters, researchers and clinicians examine the epidemiological, experimental, and clinical evidence for DHRs; explanatory models; genetic and other risk factors for such adverse reactions; clinical manifestations of drug-specific reactions; new drug development and diagnostic methods; and treatment via desensitization. The volume is amply illustrated with part-color tables, figures, and patient photos.

RC606 2007-025283 978-1-930513-73-0

HIV, 3d ed.

Title main entry. Ed. by Howard Libman and Harvey J. Makadon.
Am. College of Physicians, ©2007 446 p. \$44.95 (pa)

Written for medical professionals (and fully updated for this edition), this book offers tools to use in counseling patients about risks, testing, and the methods by which transmission can be avoided as well as the latest treatments for the effects of HIV. Chapters cover transmission, pathogenesis, natural history, prevention, primary care, antiretroviral therapy and post-exposure prophylaxis, resistance testing, therapeutic drug monitoring, long-term treatment implications, prevention and treatment of opportunistic infections and cancers, diagnostic approaches to common clinical syndromes, global epidemiology, and barriers to providing care in resource-limited settings. Special populations covered include women, men who have sex with men, African Americans, transgender persons and injection-drug users.

RC623 2007-006795 978-1-59018-677-0

Malnutrition

Nardo, Don. (Diseases and disorders series)

Thomson Gale, ©2007

104 p.

\$32.45

Aimed at students and general readers, this text provides a clear explanation of the causes, symptoms, treatment, and prevention of malnutrition. Coverage extends to an overview of eating disorders and a discussion of current efforts to fight hunger around the world. Included in the appendix are a glossary, a list of relevant organizations, and suggestions for further reading. Nardo is the author of several titles on modern scientific and medical discoveries and phenomena.

RC627 978-1-84619-099-5

Inherited metabolic diseases; a guide to 100 conditions.

Title main entry. Ed. by Steve Hannigan.

Radcliffe Publishing, ©2007

167 p.

\$49.95 (pa)

The specialist advisors who have written these profiles provide physicians and others a brief but thorough description of symptoms, diagnostic tools and therapies for a full range of disorders, including those involving amino acid and urea cycles, organic acid and fatty acid oxidation, mitochondrial and peroxisomal function, carbohydrate and glycosylation, hormones, musculoskeletal and connective tissue, blood and the immune system as well as purine, pyrimidine and porphyria disorders and lysosomal, sterol and lipid disorders. Published by Radcliffe Publishing, UK; US distribution is by BookMasters.

RC628 2006-102879 978-1-4051-3674-7

ABC of obesity.

Title main entry. Ed. by Naveed Sattar and Mike Lean.

Blackwell Publishing, ©2007

50 p.

\$31.95 (pa)

Sattar and Lean (metabolic medicine and nutrition, U. of Glasgow, UK) offer a guide to obesity management for general practitioners, junior doctors, nurses, and other healthcare professionals. They assemble 12 brief chapters by a variety of medical specialists from the UK and US who enumerate obesity statistics and discuss assessment and clinical implications and management through behavior change, diet, activity, drugs, and surgery. Other chapters cover prevention, risk factors for diabetes and coronary heart disease, and vascular disease, cancer, reproduction, and childhood obesity. Chapters include tips for management, guidelines, charts, and tables.

RC628 978-92-890-1388-8

The challenge of obesity in the WHO European region and the strategies for response; summary.

Title main entry. Ed. by Francesco Branca et al.

World Health Organization, ©2007

60 p.

\$18.00 (pa)

Aimed at policymakers, this volume is the first of two publications from a conference held by the World Health Organization Regional Office for Europe in Istanbul, Turkey, in November 2006, at which all Member States adopted the European Charter on Counteracting Obesity. The conference is part of the process of implementing the Global Strategy on Diet, Physical Activity and Health agreed at the World Health Assembly in 2004, the European Strategy for the Prevention and Control of Noncommunicable Diseases, and the Global Strategy on Infant and Young Child Feeding agreed at the World Health Assembly in 2002. The volume includes the Charter (in the annex) and summarizes technical papers written for the conference by an international group of public health, nutrition, and medicine experts. Papers are presented in full in the second publication. The extent of the obesity problem is laid out, as well as the implications for the health and other sectors, and interventions needed to stop the rising trend. National and regional policies for population-level health promotion and disease prevention, action targeting high-risk individuals, and effective treatment and care are also discussed. The volume lacks an index.

RC628 2006-026833 1-58829-735-7

Treatment of the obese patient.

Title main entry. Ed. by Robert F. Kushner and Daniel H. Bessesen.

(Contemporary endocrinology)

Humana Press Inc., ©2007

440 p.

\$129.00

Kushner (medicine, Northwestern U.) and Bessesen (endocrinology, U. of Colorado at Denver and Health Sciences Center, Denver) bring together 22 chapters that discuss recent advances in obesity research and review current treatment issues and strategies. They provide a volume for clinical endocrinologists and other health care providers on the management of obese patients. They detail new discoveries in the physiological control of body weight, pathophysiology, neuroregulation of appetites, the role of gut peptides, and the new biology of the endocannabinoid system. They also examine the role of fetal origins and birth weight, new developments in body composition in health and disease, and alterations of energy expenditure. Issues in clinical management are examined, such as polycystic ovarian syndrome, diabetes, energy density, the glycemic index, low-carbohydrate diets, physical activity, and approaches to pharmacotherapy, surgery, and the management of micronutrient deficiencies in the postbariatric patient. Chapters on lessons learned from the National Weight Control Registry and issues in pediatric obesity round out the book. Contributors are medical specialists and researchers in a variety of fields, including nutrition, psychiatry, and endocrinology, and are from the US, Canada, and UK.

RC630 2007-008918 978-0-07-148634-7

Acid-base, fluids and electrolytes.

Reilly, Robert F. and Mark A. Perazella. (Lange instant access)

McGraw-Hill, ©2007

483 p.

\$29.95 (pa)

This pocket-sized book for physicians in training and practitioners is based on the authors' *Nephrology in 30 Days*. It provides an overview of acid-base and electrolytes, supported by evidence-based findings, in a table format. Reilly (nephrolithiasis research in mineral metabolism, Veteran Affairs North Texas Health Care System, and medicine, U. of Texas Southwestern Medical Center at Dallas) and Perazella (medicine, Yale U.) provide a tool for understanding the basics of electrolytes and fluid disorders, acid-based and divalent disturbances, and mineral metabolism, and their diagnosis and management.

RC632 978-1-904392-96-5

The year in lipid disorders; v.1.

Title main entry. Ed. by Christopher J. Packard.

Clinical Publishing, ©2007

391 p.

\$99.95

Packard (Glasgow Royal Infirmary) gathers concise summaries of current work in the field, in sections on clinical aspects of coronary artery disease; lipids, lipoproteins, and atherosclerosis; prevention and treatment strategies; and infection, inflammation, and secondary causes of atherosclerosis. Each section offers an overview of the topic in several areas, illustrated with summary entries (about one page each) on previously published research papers. The summaries give title, author, and publication information, present background, and offer interpretation and commentary. Some areas of research addressed include diet and exercise in the prevention and treatment of diabetes and coronary heart disease, new clinical trials of lipid-regulating agents, lipids and infection, and the role of nuclear receptors in regulating lipid metabolism. The book is distributed in the US by CRC Press.

RC633 2006-035608 978-1-4051-5353-9

ABC of clinical haematology, 3d ed.

Title main entry. Ed. by Drew Provan.

Blackwell Publishing, ©2007

99 p.

\$44.95 (pa)

Illustrated by color photographs, the 15 chapters in this guide summarize the clinical symptoms, diagnosis, and treatment of anemias, myeloproliferative disorders, platelet disorders, multiple myeloma, and other blood problems. The chapters on myelodysplasia, leukemias, transplantation, lymphoma, and bleeding disorders have been rewritten by new British authors in the third edition.

RC641 2007-011109 978-3-8055-8277-3

Fanconi anemia; a paradigmatic disease for the understanding of cancer and aging.

Title main entry. Ed. by Detlev Schindler and Holger Hoehn.

(Monographs in human genetics; v.15)

S. Karger, AG, ©2007 229 p. \$198.25

The last volume of the series was published in 1992. Then the field of human genetics exploded and fractured into a thousand specialties all changing too rapidly to capture in print. Now the series is back, projected to produce two volumes a year reviewing recent findings on important hereditary diseases, their molecular basis, their clinical impact, and their eventual treatment. Fanconi Anemia is a rare chromosome instability disorder of which the molecular basis has been all but elucidated in recent years. The 14 papers here are from a small gathering of geneticists held in Würzburg at an unspecified date.

RC643 2006-039397 978-1-58829-621-4

Acute myelogenous leukemia.

Title main entry. Ed. by Judith E. Karp. (Contemporary mematology)

Humana Press Inc., ©2007 426 p. \$149.00

Current treatments for acute myelogenous leukemia (AML) have not proven very effective, particularly when patients are elderly or already infirm. This collection of articles addresses new and promising research into the molecular pathogenesis and physiology of AML, including information on drug resistance transporters and DNA damage response, new molecular therapies such as FLT2 and the modulation of gene expression, and molecular therapeutics of AML in selected target approaches. Several articles address special challenges in research and treatment such as children and elderly patients, and articles also address critical factors in leukemia cell survival and drug resistance and their potential exploitation as therapeutic targets.

RC645 2006-102265 978-0-8493-3802-1

Obesity; epidemiology, pathophysiology, and prevention.

Title main entry. Ed. by Debasis Bagchi and Harry G. Preuss. (CRC series in modern nutrition science)

CRC / Taylor & Francis, ©2007 569 p. \$149.95

Eighty-three international academics and researchers contribute 41 chapters to a text for practicing medical professionals, clinical nutritionists, dietitians, and researchers addressing the many issues relevant to obesity. Coverage includes an introductory overview of the epidemiology of obesity and the global burden obesity presents for the new millennium; the pathophysiology of obesity; obesity and degenerative diseases, including metabolic syndrome, type 2 diabetes, and cancer; new concepts in obesity drug development; the safety of obesity drugs; natural, nutritional, and physical approaches to weight management; the complicated problem of childhood obesity, including metabolic acidosis, and an intervention strategy; and the use of bariatric surgery to help in weight management and reversing metabolic disorders.

RC658 2007-005269 978-3-8055-8256-8

Growth hormone therapy in pediatrics; 20 years of KIGS.

Title main entry. Ed. by Michael B. Ranke et al.

S. Karger, AG, ©2007 519 p. \$163.75

Begun in 1987, KIGS (Pfizer International Growth Database) is a pharmacoepidemiological survey project investigating recombinant growth hormone treatment in some 60,000 children with short stature in 50 countries around the world. In this work, Ranke (pediatric oncology, U. Children's Hospital, U of Tübingen, Germany), Price (Royal Manchester Children's Hospital, UK), and Reiter (Baystate Children's Hospital, Tufts U. School of Medicine, US) present 36 papers, some of which review the medical literature relevant to the use of growth hormone treatment and others of which analyze the data from the program's database, frequently pairing related topics from both categories (a few combine the two foci). In the first category one finds such topics as assessment of growth and puberty, the role of insulin-like growth factors in growth hormone deficiency, characteristics of idiopathic growth hormone deficiency at the start of growth hormone therapy and response to growth hormone, childhood brain tumors and growth hormone treatment, growth hormone treatment of cystic fibrosis, and growth and growth hormone treatment in patients with juvenile idiopathic arthritis, and metabolic effects of growth hormone. The second category includes discussions of data analyses within KIGS, the KIGS etiology classification system, the KIGS experience with growth hormone treatment to final height in idiopathic growth hormone deficiency, KIGS patients with acquired growth hormone deficiency, and results of growth hormone treatment of Noonan syndrome in KIGS.

RC660 2006-035038 978-0-8493-9534-5

Animal models of diabetes; frontiers in research, 2d ed.

Title main entry. Ed. by Eleazar Shafir.

CRC / Taylor & Francis, ©2007 365 p. \$189.95

The 17 chapters brought together in this volume by Shafir (Diabetes Center, Hadassah U. Hospital, Israel) focus on the use of animal models in experiments with Type 1 and Type 2 diabetes. It is meant to promote understanding of etiopathology and insulin action, its negative feedback leading to insulin resistance, and detrimental outcomes. New knowledge on specific complications of diabetes is presented. This edition includes new and updated reference reviews on rodent diabetes, pigs in research, and animals with induced obesity, and observations on retinopathy in spontaneous diabetes resembling human lesions. Chapter authors are researchers from around the world.

RC660 2007-009690 978-1-57331-678-1

How do we best employ animal models for type 1 diabetes and multiple sclerosis?

Title main entry. Ed. by Matthias von Herrath and Mark Atkinson.

(Annals of the New York Academy of Sciences; v.1103)

Blackwell Publishing, ©2007 220 p. \$125.00 (pa)

Part of *The Annals of the New York Academy of Sciences*, this volume is a result of a conference of the same name, sponsored by the New York Academy of Sciences and held in November of 2006 in San Francisco. It contains 23 papers that examine whether there are better ways to optimize existing animal models, the creation of new models, or exploring alternatives to describe and predict outcome efforts to treat human type 1 diabetes and multiple sclerosis. They address controversies surrounding the use of animal models and new methods of discovery for questions of pathogenesis and therapy, such as in silico; humanized, transgenic, or congenic models; viral, antigen, or cell-induced models, and complications. The index lists contributors only, who are researchers from around the world.

RC660 2006-025701 978-1-60021-410-3

New advances in the genetics and treatment of type 1 diabetes mellitus and late diabetic complications.

Chistiakov, Dimitry A.

Nova Biomedical Books, ©2007 255 p. \$89.00

Chistiakov (pathology, U. of Pittsburgh Medical Center) reports recent findings on the genetics and treatment of type 1 diabetes (T1D). Coverage includes an overview of the classification, diagnosis, clinical symptoms and management of the disease; epidemiology of T1D; non-genetic risk factors in susceptibility to T1D; prediabetes and islet autoimmunity; the role of genetic factors in the etiology of T1D from family and twin studies; mapping and identifying susceptibility genes for complex diseases; utility of animal models in genetic analysis of susceptibility; the role of HLA and non-HLA genes in the genetics of T1D; shared genetic susceptibility to T1D and other autoimmune diseases; current approaches in the treatment of T1D using islet B cell replacement; and prediction of T1D.

RC669 2007-005634 978-1-4051-3394-4

Cardiovascular genetics and genomics for the cardiologist.

Title main entry. Ed. by Victor J. Dzau, Choong-Chin Liew.

Blackwell Publishing, ©2007 308 p. \$110.00

Dzau (medicine, Duke U.) and Liew (laboratory medicine and pathobiology, U. of Toronto, Canada) compile 12 chapters by medical specialists and researchers from North America and the UK who explain the concepts of cardiovascular genetic and genomics for cardiologists. First presented is a historic overview of genetics and genomics concepts and a specific application of blood-based microarray technology, and then they discuss single-gene and polygenic cardiovascular disorders. The final section addresses genetic and genomic-based therapeutics, such as stem cell therapy, pharmacogenics, and blood-based gene profiling.

RC669 2006-046970 978-0-07-144337-1

Integrative cardiology; complementary and alternative medicine for the heart.

Title main entry. Ed. by John H. K. Vogel and Mitchell W. Krucoff.

McGraw-Hill, ©2007 595 p. \$69.95

Vogel (cardiology, Santa Barbara Cottage Hospital) and Krucoff (medicine/cardiology, Duke U. Medical Center) assemble 29 chapters that discuss the integration of complementary and alternative medicine (CAM) approaches in the treatment of cardiology patients. Medical specialists from the US contribute discussions about legal and ethical issues, integrative medical centers, clinical trials, different treatment modalities relating to diet, acupuncture, homeopathy, and other approaches, mechanistic and physiological links between CAM and the cardiovascular system, and special issues, such as menopause, obesity, cardiac surgery, aging, end-of-life care, and mindfulness and meditation.

- RC669 2006-935042 1-58603-657-2
Remote cardiology consultations using advanced medical technology; applications for NATO operations; proceedings.
 NATO Advanced Research Workshop on Remote Cardiology Consultations Using Advanced... (2005: Zagreb, Croatia) Ed. by Ivica Klapan et al. (Nato science series, i: life and behavioural sciences; v.372) IOS Press, ©2006 163 p. \$144.00
 Now that the North American Treaty Organization is no longer relying on member nations for the medical care of people in its charge, ways are being sought to improve the delivery of care, especially in remote and often conflict-ridden locations. Here field operatives report their experience and scientists describe the potential for diagnosing cardiac problems through tele-conferencing. Their topics include a Spanish military telecardiology, pediatric eleccardiology evaluation with echo-cardiographic validation, and justifying investment in telemedicine. Only the authors are indexed.
- RC681 978-1-85315-715-8
Recent advances in cardiology; 14.
 Title main entry. Ed. by Derek J. Rowlands and Bernard Clarke. Royal Society of Medicine Pr., ©2007 255 p. \$69.00 (pa)
 The 15 contributions in this British collection summarize current knowledge of heart disease during pregnancy, sudden cardiac death in young athletes, hypertension treatment, and mitral valve repair. Other topics include the role of calcium handling in the pathophysiology of heart failure, cardiac metabolism in diabetics, transcatheter interventional procedures for adult congenital heart disease, genetic causes of congenital long QT syndrome, and multi-detector-row computed tomography. Distributed in the US by BookMasters.
- RC683 2006-275240 1-55009-342-8
Clinically relevant electrocardiography; PQRST and U. (CD-ROM included)
 Schiavone, William A. B.C. Decker, ©2006 227 p. \$89.95
 Most practitioners find electrocardiography to be a part of the mass of examination, interpretation and experimentation that is the diagnostic process. In a clinical setting the electrocardiograph is one of the most important pieces of information in determining root causes and possible treatments, yet it is also one of the most difficult to interpret when time is of the essence. This volume gives clinicians and students a better chance at effective diagnoses, as it contains the most common situations along with succinct pearls, images, and enough data to take physicians to the right resources for a closer look. Organized for practical use, it's valuable not only when the patient is awake but also when he or she is receiving electrocardiography mid-procedure. Students can use it as a self-study guide.
- RC683 2007-061184 978-0-07-351098-9
Electrocardiology for health care personnel, 2d ed. (CD-ROM included)
 Booth, Kathryn A. et al. McGraw-Hill, ©2008 298 p. \$45.67 (pa)
 This edition, which has been updated to include current research and practice, now includes four-color illustrations and a variety of interactive options online or on the accompanying CD-ROM. The authors, all practitioners, focus on the needs of those who wish to augment their skills as well as students as they describe the role of the electrocardiographer in diagnosis and treatment, the cardiovascular system, the electrocardiograph (including details on the ECG waveform), the process of performing an ECG, interpretation and clinical significance, exercise electrocardiography and ambulatory monitoring. The updates here are so current practitioners can use this for a refresher or desk reference.
- RC684 2006-032373 978-1-58829-904-8
Cardiac drug therapy, 7th ed.
 Khan, M. Gabriel. (Contemporary cardiology) Humana Press Inc., ©2007 420 p. \$99.00
 Khan (medicine, U. of Ottawa, and cardiology, The Ottawa Hospital, Ontario, Canada) describes the pharmacology and therapeutic application of drugs used to treat various heart diseases and hypertension. Properties, dosage, action and pharmacokinetics, efficacy, indications, interactions, side effects, potential salutary benefits, and drawbacks are covered. This edition has six new chapters on current controversies in cardiac drug therapy: beta blocker use, ACE inhibitors, calcium antagonists, hypertension, heart failure, and statins. The chapter on hallmark clinical trials has been expanded. The audience for the book includes cardiologists, internists, residents, and general practitioners.
- RC685 978-1-904392-59-0
Angina; an atlas of investigation and management.
 El-Ahdab, Fadi et al. Clinical Publishing, ©2007 104 p. \$99.95
 Books in the publisher's "Atlas of Investigation and Management" series are slightly oversize (9.75x12.5"), slim, and designed with many tables & charts so that clinician's can easily access information. Sarembock and three colleagues from the U. of Virginia Health System, Charlottesville, Virginia present material in six chapters on epidemiology, natural history, and pathophysiology; clinical evaluation; noninvasive detection of coronary artery disease; coronary angiography and ancillary techniques for the invasive assessment of angina pectoris; nonatherosclerotic causes of angina pectoris and ischemia; and management. Distributed by CRC Press.
- RC685 2006-038339 978-0-07-144315-9
Heart failure; a practical approach to treatment.
 Title main entry. Ed. by William T. Abraham and Henry Krum. McGraw-Hill, ©2007 322 p. \$85.95
 In this comprehensive, clinically oriented, and concise reference, Abraham (internal medicine, Ohio State U.) and Krum (medicine, Monash U., Australia) provide 22 chapters on the diagnosis, treatment, and management of patients with heart failure. Cardiologists and other medical specialists from the US, Australia, and Europe provide practical, evidence-based recommendations that highlight the scientific and clinical rationale for the pharmacologic and nonpharmacologic strategies for managing heart failure. They focus on disease management programs and pathways of care that are often neglected in textbooks on the subject. Chapters cover the definition, causes, pathophysiology, severity and prognosis, and evaluation of heart failure, as well as the use of diuretics, neurohormonal antagonists, digitalis, and surgical and other approaches, as well as transplantation, comorbidities, and heart failure clinics.
- RC685 2006-035499 978-1-4051-5372-0
The nuts and bolts of cardiac resynchronization therapy.
 Kenny, Tom. Blackwell Futura, ©2007 218 p. \$54.95 (pa)
 In this substantial clinical reference, Kenny (clinical education and Training, St. Jude Medical, Texas) addresses non-specialists dealing with heart failure patients, offering detailed explanation of the technology, use, and problem management of implantable cardiac resynchronization therapy (CRT) systems. Introductory chapters discuss cardiovascular anatomy and physiology, the causes and neurohormonal presentations of heart failure, and drugs. The remaining material addresses implant procedures, basic and advanced programming techniques, ECG interpretation of CRT systems, defibrillation functions, DFT management, atrial fibrillation, special CRT device features, and diagnostics, among other topics.
- RC691 2007-008008 978-1-4051-5827-5
Vascular medicine and endovascular interventions.
 Title main entry. Ed. by Thom W. Rooke et al. Blackwell Futura, ©2007 331 p. \$99.95
 Designed for those studying for the Vascular Medicine Board Examinations but also very useful as a refresher or for self-study in other specialties, this guide features questions and answers for each chapter and perspectives from a range of experts for each topic. It covers material most likely to be in the exam, including vascular biology, vasculitis and connective tissue disease, upper extremity arterial disease (including Raynaud Syndrome), chronic venous and lymphatic disease, thrombophilia, venous thromboembolism, arterial and venous testing in the laboratory, perioperative management, leg ulcerations and clinical evaluation of lower extremities, treatment of peripheral arterial disease, acute arterial disorders, aortic dissection, renal and mesenteric artery disease, carotid artery disease and stroke, endovascular techniques, diseases of the aorta, angioplasty and stenting, therapy for brachiocephalic vessels, possible complications and strange or unusual diseases. The illustrations are very well-prepared.

RC692 2006-022799 1-60021-371-5

Frontiers in atherosclerosis research.

Title main entry. Ed. by Karin F. Kepper.

Nova Science Publishers, ©2007 237 p. \$89.00

Due to breakthroughs in molecular medicine and new drugs, there has been great progress in research on atherosclerosis—a degenerative disease involving the development of plaques that may block blood flow through an artery. In 11 chapters, international researchers review the mechanism through which oxidation of polyunsaturated fats can contribute to this chronic inflammatory condition which puts patients at risk for cardiovascular events, and the potential of antioxidants such as vitamin E, aspirin, Viagra (surprisingly since it has been associated with heart attacks), and a Mediterranean diet to protect against such processes. Author contact information is provided, but no background is given on the editor.

RC702 2007-006677 978-1-55642-668-1

Cardiovascular/ pulmonary essentials; applying the preferred physical therapist practice patterns.

Title main entry. Ed. by Marilyn Moffat.

Slack Inc., ©2007 299 p. \$58.95 (pa)

This comprehensive study guide gives students and practitioners information formed along the logic tree of designated best practices for therapists, and includes a corresponding range of case studies that illustrate how therapists work as part of the medical team. The chapters follow practice patterns and cover primary prevention and risk reduction for cardiovascular and pulmonary disorders, and impaired aerobic capacity and endurance associated with deconditioning, airway clearance dysfunction, cardiovascular pump dysfunction, ventilatory pump dysfunction, respiratory failure in adults and neonates, and impairments associated with lymphatic disorders. The cases are so well presented students and practitioners in other fields would benefit by working through this.

RC731 2006-032550 978-1-4051-5344-7

Lecture notes; respiratory medicine, 7th ed.

Bourke, S. J.

Blackwell Publishing, ©2007 222 p. \$34.95 (pa)

Written for medical students and new doctors, this concise handbook covers the basics of respiratory medicine, beginning with a review of the relevant anatomy and physiology. The bulk of the volume consists of 17 disease-specific chapters, each discussing the pathophysiology, diagnosis, and treatment of one disorder. Bourke (University of Newcastle upon Tyne) provides management guidelines, supported with case histories and X-rays.

RC776 2006-008250 1-58829-644-X

Management of acute pulmonary embolism.

Title main entry. Ed. by Stavros V. Konstantinides. (Contemporary cardiology)

Humana Press Inc., ©2007 271 p. \$145.00

The words “pulmonary embolism” haunt the sleep of many a practitioner, but new understanding of the basic science and better techniques have significantly improved diagnosis and treatment. This collection of papers concentrate on that diagnosis and treatment along with other topics of current interest and use validated, evidence-based approaches along with critical reviews of current and innovative clinical probability assessment methods. Specific topics include clinical probability and D-Dimer testing, evaluation of leg veins, risk stratification, cardiac biomarkers, the importance of a patent Foramen ovale, diagnostic algorithms for hemodynamically stable patient, Heparin anticoagulation, thrombosis, patients with fulminant PE undergoing CPR, surgical embolectomy, intervention in acute massive PEs, vitamin K, hereditary and acquired thrombophilia, cancer, pregnancy, air travel and chronic hypertension. Many papers include diagnostic imagery.

RC776 2007-005029 978-1-4051-3807-9

Pulmonary embolism, 2d ed.

Stein, Paul D.

Blackwell Futura, ©2007 476 p. \$124.95

Stein (medicine, Wayne State U.) provides new clinical observations, critiques of multidetector computer tomography for diagnosis and recommendations for imaging tests for this edition of his comprehensive reference. With accessible and fully updated text and clear illustrations he covers the prevalence, risks and prognosis of pulmonary embolism and deep venous thrombosis (including resolution of pulmonary embolism and the seasonal nature of venous thrombosis disease), diagnosis of deep venous thrombosis and acute pulmonary embolism (including detailed studies of imagery and other techniques) and preventative measures for both, including the efficacy of new and old anti-coagulants.

RC815 2006-033265 978-1-4051-4937-2

Cysts of the oral and maxillofacial regions, 4th ed.

Shear, Mervyn and Paul Speight.

Blackwell Publishing, ©2007 228 p. \$199.99

Aimed at students, general dental practitioners, surgeons, radiologists, and pathologists, this work by Shear (emeritus, U. of Witwatersrand and U. of the Western Cap, South Africa) and Speight (School of Clinical Dentistry, U. of Sheffield, UK) is intended as a review of current knowledge of cysts of the jaws and mouth. Following discussion of the classification and frequency of cysts of the oral and maxillofacial tissues, 17 chapters review specific types of cysts, with each chapter discussing clinical features, radiology, pathogenesis, histopathology, and general principles of treatment for each type. For the fourth edition, the title has been changed from the original *Cysts of the Oral Region* to better reflect the text's scope and the material has been updated in accord with the expanded literature of the field, particularly in reference to the odontogenic keratocyst. The new edition also now presents the clinical photographs and photomicrographs in color.

RC815 2007-006883 978-3-8055-8270-4

The puzzle of orofacial pain; integrating research into clinical management.

Title main entry. Ed. by J. C. Türp et al. (Pain and headache; v.15)

S. Karger, AG, ©2007 254 p. \$227.25

Powerful and simple-to-use diagnostic tools for screening features of pain in the mouth and face have been developed in pain research, but they are not taught to dentists, who are often the first to deal with such pain in their patients. Here specialists describe some of the concepts and techniques in ways designed to be useful to practicing or student dentists and others professionals in dentistry. Their topics include the role of reproductive hormones in orofacial pain, neuralgic and ideopathic facial pain, and classifying orofacial pain.

RC815 2006-297626 1-55009-323-1

Treatment of common oral conditions, 6th ed. (CD-ROM included)

Title main entry. Ed. by Michael A. Siegel et al. (Clinician's guides)

B.C. Decker, ©2006 71 p. \$24.95 (pa)

This compact reference provides clinicians with quick access to information on the etiology, clinical presentation, and treatment of a number of common oral conditions. The description of each condition is accompanied by color clinical photographs. The CD-ROM contains bonus multiple choice questions, plus downloadable images and searchable PDF files of the text. Editor Siegel is affiliated with Nova Southeastern U. College of Dental Medicine.

RC845 2006-101699 978-1-4051-2741-7

Textbook of hepatology; from basic science to clinical practice, 3d ed.; 2v. (CD-ROM included)

Title main entry. Ed. Juan Rodés et al.

Blackwell Publishing, ©2007 2312 p. \$649.00

The first edition of this reference for clinicians was published in 1992 as *Oxford Textbook of Clinical Hepatology*, and it appeared in English, French, and Spanish; the second edition was published in 1999. For this third edition, the title has been changed, and Blackwell is the publisher. Over 200 chapters from authors on five continents build on the original work, incorporating new concepts in the realms of genomics, proteomics, gene arrays, metabolomics, bioinformatics, stem cells, molecular and cell biology, and genetics. The new edition includes significant changes in the sections on functions of the liver, basic concepts of pathobiology, assessment, portal hypertension, congenital hepatic fibrosis and non-parasitic diseases of the liver, hepatic non-alcoholic steatosis, tumors, transplantation, and mathematics in hepatology. All but two of the five original editors have continued their work, so the crew consists of Juan Rodés, Jean-Pierre Benhamou, Andres T. Blei, Jürg Reichen, and Mario Rizzetto; they are based, respectively, in Spain, France, USA (Chicago), Switzerland, and Italy. The material is contained in two hefty volumes, but for those who prefer to read a screen, the included CD-ROM contains all chapters as PDFs and is fully searchable.

RC849 2006-016691 1-60021-240-9

Cancer of the gallbladder; new research.

Title main entry. Ed. by John T. Whitten. (*Horizons in cancer research*; v.38)

Nova Science Publishers, ©2007 158 p. \$129.00

In this 38th volume of Nova's *Horizons in Cancer Research* series, twelve stand-alone chapters discuss current research on the diagnosis, treatment, management, and causes of gallbladder cancer. Topics include: cholecystic venous system and liver metastasis from gallbladder carcinoma, tumor angiogenesis, external palliative radiotherapy, gallbladder cancer risk in patients with a long common channel, and experimental strategies to treating biliary tract cancer, among others. No editor credentials are provided.

RC871 2006-041807 978-1-4160-2966-3

Campbell-Walsh urology, 9th ed.; 4v. (e-dition; CD-ROM included)

Title main entry. Ed. by Alan J. Wein.

Elsevier Saunders, ©2007 4592 p. \$599.00

★★★★ The 7th edition of this text is recommended in Brandon-Hill as suggested for initial purchase and for a minimal core list for every medical library. Reflecting the changes in the field, the 9th edition of this venerable text contains 24 new chapters, 19 chapters re-written by new authors, and complete revision of the remaining 89 chapters. The contributors are specialists based in the US, Canada, and Europe, bringing an international expertise to the text. There are 132 chapters, divided into 17 sections, with all of volume 4 (26 chapters) devoted to pediatric urology; 21 chapters in volume 3 are on prostate. Initial sections are devoted to fundamentals of anatomy, clinical evaluation, and the basics of urologic surgery. The text is heavily illustrated with color photos and illustrations of excellent clarity; there are frequent algorithms and tables (also in color). In this e-dition the text is online in searchable form and the images can be downloaded. The online edition also contains video clips and weekly content updates. The CD-ROM contains the complete reference list (a list of references also concludes each chapter).

RC902 2006-103166 978-1-4051-3675-4

ABC of kidney disease.

Title main entry. Ed. by David Goldsmith et al.

Blackwell Publishing, ©2007 82 p. \$44.95 (pa)

Although designed to help those in general practice determine when to send a patient to a specialist, this text is so well-illustrated some specialists will learn a thing or two. The contributors offer extremely compact explanations of kidney structure, function and pathology, including sections on diagnostic tests in chronic kidney disease, screening and early intervention, prevention of progression of chronic disease and the associated cardiovascular implications, adult nephrotic syndrome, renal artery stenosis, urinary tract infections, renal stones and cysts, tumors, pregnancy in chronic kidney disease, acute kidney injury, dialysis and transplantation in children, dialysis and transplantation in adults and alternatives to dialysis, and social services to those with chronic kidney disease. Appendices address pharmacology, anemia management and the editors include a glossary.

RC918 2007-011107 978-3-8055-8286-5

IgA nephropathy today.

International Symposium on IgA Nephropathy (11th: 2006: Tokyo, Japan) Ed. by Yasuhiko Tomino. (*Contributions to nephrology*; v.157)

S. Karger, AG, ©2007 255 p. \$207.25

Although described as a disease entity only about 40 years ago, IgA nephropathy has been found to be the most frequent cause of end-stage renal disease. Despite the best efforts of researchers so far no specific treatment is available for this immune complex mediated glomerulonephritis. These proceedings from the October 2006 symposium include the latest research on pathogenesis and treatment and include two central reviews along with over two dozen clinical reviews, basic reviews, and updates on clinical and basic advances. Topics include angiotensin antagonists and fish oil for treatment, interpretations of renal biopsies, the mucosa-bone marrow axis, the role of obesity, tonsillectomy and steroid therapy, sequential immunosuppressive therapy, and discoveries about related antibodies and viruses. The volume includes complete sets of abstracts.

RC925 2007-920609 978-1-4160-2350-0

Daniels and Worthingham's muscle testing; techniques of manual examination, 8th ed. (CD-ROM included)

Hislop, Helen J. and Jacqueline Montgomery.

Elsevier Saunders, ©2007 473 p. \$69.95 (pa)

Hislop and Montgomery, both affiliated with the Department of Biokinesiology and Physical Therapy at the University of Southern California, provide a new DVD with this eighth edition of a plastic-spiral-bound guide. The DVD contains demonstrations of manual muscle testing in a clinical setting, an overview of grading, and demonstrations of criteria for both normal and below-normal muscle tests. Presenting an approach to the assessment of muscular strength and function as fundamental components of movement and performance, the authors overview general principles that govern manual muscle testing, then detail techniques for testing motions of skeletal muscle groups in the different body regions. The final chapter is a 110-page reference summarizing muscle anatomy, muscles as part of motions, muscle innervation, and myotomes. The book's two-color illustrations have been revised for this edition.

RC927 2006-032489 978-0-471-72428-5

Healing fibromyalgia; the three-step solution.

Trock, David H.

John Wiley & Sons, ©2007 245 p. \$16.95 (pa)

Fibromyalgia is a syndrome of mysterious origin that is marked by debilitating pain and fatigue. In this resource for patients, Trock (Chief of Rheumatology, Danbury Hospital, Connecticut) summarizes recent developments in the understanding and treatment of fibromyalgia. He then describes an integrative approach to recovery that incorporates traditional medicine, lifestyle modifications, and holistic care. He also shares the inspiring stories of some people who have recovered from fibromyalgia.

RC931 978-1-904392-73-6

Managing osteoporosis.

Title main entry. Ed. by S. Lanham-New et al.

Clinical Publishing, ©2007 278 p. \$89.95

This collection of articles addresses the top issues in preventing and treating osteoporosis, covering such topics as desired levels of calcium and vitamin D, new thinking on the influence of potassium and protein as well as fruit and vegetables, risk factors such as genetics and lifestyle, appropriate physical activity and falls, and service delivery in primary and secondary care. Distributed by CRC Press.

RC941 2007-004292 978-1-59756-176-1

Noncardiac chest pain; a growing medical problem.

Title main entry. Ed. by Ronnie Fass and Guy D. Eslick.

Plural Publishing, ©2007 188 p. \$110.00

Eslick (clinical epidemiology, U. of Sydney, Australia) and Fass (neurocentric research, U. of Arizona) offer clinicians in gastroenterology, cardiology, and psychiatric medicine 14 chapters discussing current learning on noncardiac chest pain, a poorly understood condition with many underlying potential mechanisms. Contributors address: pathophysiology, diagnosis, economics, and prognosis of noncardiac chest pain; non esophageal causes of chest pain; sensory testing; the proton pump inhibitor therapeutic trial; a cardiology perspective on evaluation for the gastroenterologist; brain imaging; treatment; quality of life; and issues for the future.

RC952 978-1-84619-170-1

Essential geriatrics.

Woodford, Henry.

Radcliffe Publishing, ©2007 309 p. \$49.95 (pa)

Bridging the gap between general medicine textbooks and detailed studies of particular problems encountered in geriatric medicine, Woodford sets out the key aspects of elderly care, emphasizing aspects that receive little or no attention in standard geriatric textbooks. Currently serving as a consultant in elderly medicine with a special interest in stroke at Cumberland Infirmary, Carlisle, he focuses on practical matters of concern to clinicians, and refers readers interested in theory to other works. Distributed in the US by BookMasters.

RC961 2006-038375 978-1-84519-183-2

The tropical world of Samuel Taylor Darling; parasites, pathology, and philanthropy.

Chaves-Carballo, E.

Sussex Academic Press, ©2007 260 p. \$75.00

Darling (1872-1925), who understood a staggering amount about tropical diseases, derived much from performing over 4,000 autopsies of workers who died constructing the Panama Canal; his investigations into malaria, hookworm, amebiasis and other tropical diseases led him to Panama, and to the Far East, South Africa, and Brazil. Chaves-Carballo (history and philosophy of medicine, Kansas University Medical Center) is also a physician with expertise in tropical diseases, and some of his interest in his subject stems from dismay at how much suffering they continue to cause, even when the science is understood. He provides a well-researched biography of a remarkable scientist. The book is distributed in the US by ISBS.

RC1005 2006-925655 978-1-930536-31-9

Assessment of diving medical fitness for scuba divers and instructors; medical, physical, physiological, psychological.

Bennett, Peter B. et al.

Best Publishing Co., ©2006 241 p. \$29.95

Diving instructors are often the first person to screen a person's fitness for diving. Bennett (Duke U. Medical Center, Durham, North Carolina) and other specialists in the diving and hyperbaric medicine field offer guidelines on how to assess the fitness of a prospective/certified diver, when to consult a physician, and how to manage problems that arise. They also address the special needs of the growing number of older, female, and handicapped divers.

RC1210 2006-025870 978-1-4051-3298-5

Evidence-based sports medicine, 2d ed.

Title main entry. Ed. by Domhnall MacAuley and Thomas M. Best.

BMJ Books, ©2007 615 p. \$135.00

Best (family and sports medicine, Ohio State U.) and MacAuley (orthopedics and rehabilitation, U. of New Mexico) offer this updated reference for doctors on the treatment and prevention of athlete injuries and other conditions in sports medicine. Each of the 30 chapters summarizes evidence-based research and answers a specific question, and is organized under one of the following themes: prevention, acute injury, chronic conditions, injuries to the upper limb, injuries to the groin and knee, and injuries to the lower leg. Specifically, they address issues including: evidence-based preparticipation physical examination, the effect of core strength and stability on injury prevention, exercise and back pain prevention, treatment for tennis elbow, the optimal treatment of acute anterior cruciate ligament injury and how to manage plantar fasciitis. Chapters conclude with multiple choice and essay questions.

RC1210 2007-007887 978-1-55642-798-5

Sports emergency care; a team approach.

Title main entry. Ed. by Robb S. Rehberg.

Slack Inc., ©2007 281 p. \$42.95 (pa)

Written for students, athletic trainers, and emergency medical services professionals, this text moves beyond information based on first aid materials that is often used by educators and explains how to handle emergency medical situations in the sports arena. Rehberg (athletic training clinical education, William Paterson U., and emergency services, Montclair State U.) addresses preparation, assessment, interaction with emergency medical services, etiology, signs, symptoms, and common emergencies in sports. These relate to airway management and breathing, cardiovascular emergencies, spinal injuries, unconsciousness and seizures, traumatic brain injury, fractures, and thoracic, abdominal, pelvic, and soft tissue injuries. Considerations for pediatric and youth athletes are described in the final chapter. Six of the chapters have been written by other authors, who work in sports medicine, orthopedic surgery, and athletic training.

RC1230 2006-020536 0-8160-6575-6

Drugs and sports.

Pampel, Fred C. (Library in a book)

Facts On File, Inc., ©2007 284 p. \$45.00

Pampel (sociology, University of Colorado) chronicles the use of performance-enhancing drugs in American sports, and reviews the major laws and court cases involving drug use and testing. Extensive reference chapters provide brief biographical sketches of players and scientists, cite books and articles on both medical and social aspects of the issue, and list government and sports agencies. Appendices reprint the Anabolic Steroid Control Acts, the Supreme Court decision on drug testing of student athletes, and NIDA research reports.

RC1230 2007-001985 978-0-7890-3665-0

Performance enhancing medications and drugs of abuse.

Title main entry. Ed. by Mark S. Gold. (Journal of addictive diseases; v.25, suppl. 1)

Haworth Pr., ©2007 70 p. \$17.00 (pa)

Gold (psychiatry, neuroscience, and community health and family medicine, U. of Florida, Gainesville) compiles five papers that present and review new data on performance enhancing medications and drugs that are abused by a variety of patients. They note that their use has spread from professional sports to amateur athletics, adolescents, and other at-risk populations. They discuss the effects of nicotine used for diseases such as Alzheimer's and Parkinson's, anabolic steroid abuse relating to physiological and psychological disorders, the abuse of ecstasy or MDMA as a social facilitator, and erectile dysfunction medications. The book is meant for physicians, researchers, professors, therapists, and psychiatrists. It has been co-published simultaneously as *Journal of Addictive Diseases*, vol. 25, Supplement no. 1 2007.

SURGERY

RD31 978-1-85315-720-2

Recent advances in surgery; 30.

Title main entry. Ed. by C. D. Johnson and I. Taylor. (Series: Title)

Royal Society of Medicine Pr., ©2007 200 p. \$69.00 (pa)

In this annual publication, the most recent research in surgery is presented. Fourteen essays comprise the volume, with sections on surgery in general, and breast, gastrointestinal, and vascular surgery. The final essay is a review of recent randomized clinical trials. Authors address such topics as risk management, tissue engineering, new procedures, quality of life issues, breast reconstruction, acute gallbladder disease, and others. The book serves as a survey for candidates of MRCS/AFRCs exams and the Intercollegiate Examination. Taylor is a professor of surgery at Royal Free and University College London and Johnson is a surgeon at Southampton General Hospital in the UK. Contributors are surgeons and other medical specialists from the UK and South Africa. US distribution is by BookMasters.

RD37 2007-001103 978-0-7817-5901-4

Surgery, 5th ed.

Title main entry. Ed. by Bruce E. Jarrell et al. (NMS)

Lippincott Williams & Wilkins, ©2008 647 p. \$39.95 (pa)

This study guide for medical students and residents presents the core material of the specialty of surgery in an outline format to facilitate retention. USMLE-style practice questions found at the ends of each of the seven sections are followed by answers and explanations. The complete text of the fifth edition is also available on a companion website, along with an all-new 130-question comprehensive examination. Jarrell teaches surgery at the U. of Maryland.

RD85 2007-273285 978-0-07-143772-1

Spinal and epidural anesthesia.

Wong, Cynthia A.

McGraw-Hill, ©2007 374 p. \$100.00

This volume covers spinal and epidural anesthesia/analgesia for all surgical subspecialties, with an aim to give practitioners of neuraxial anesthesia a review of theory and practice in a level of detail not covered in major textbooks. Wong (obstetrical anesthesia, Northwestern U.) assembles 17 chapters by medical specialists in anesthesiology, pain management, and pediatrics from the US and Austria who discuss general aspects, including vertebral anatomy, neuraxial block technique, pharmacology, physiologic changes, and contraindications and complications. They then address subspecialties and clinical applications of neuraxial anesthesia relative to the type of surgery. Chapters on the use of techniques in the management of acute postoperative and chronic pain round out the book.

RD93 2006-019245 978-0-7279-1649-5

Trauma rules 2; incorporating military trauma rules.

Hodgetts, Tim and Lee Turner.

BMJ Books, ©2006 145 p. \$26.95 (pa)

Using a systematic approach to managing major trauma, Hodgetts (emergency medicine, Royal Centre for Defence Medicine, UK) and Turner (Officer Commanding 2nd Health Support, Linton Military Camp, New Zealand) present 70 rules for trauma care for those dealing with the immediate and early management of severely injured patients. Primary directives, preparation, patient approach, assessment and resuscitation, and investigation and definitive care are covered. Each rule is accompanied by its reason, exceptions, and sometimes illustrations. This edition has been expanded and updated, with 14 new rules and military trauma rules. Distributed in the US by Blackwell Publishers.

RD93 2007-005867 978-1-58255-554-6

Wound care made incredibly visual!

Title main entry. (Incredibly visual)

Lippincott Williams & Wilkins, ©2008 186 p. \$42.95 (pa)

Illustrated by numerous color photographs and cartoons, this nursing textbook introduces skin anatomy, wound healing, wound assessment, wound care procedures, prevention measures, and common treatments. Later chapters describe the different types of burns, surgical wounds, malignant wounds, and pressure, vascular, and diabetic foot ulcers seen in hospital patients.

RD96 2006-100484 978-1-56663-700-8

The sun farmer; the story of a shocking accident, a medical miracle, and a family's life-and-death decision.

McCarthy, Michael.

Ivan R. Dee, Inc., ©2007 216 p. \$24.95

Journalist McCarthy takes readers into the world of the medical miracle, which looks pristine and rather pleasant on television but is in fact hellish and fraught with pain, emotional exhaustion and a series of inevitable small tragedies. The farmer here, Ted Fink, was burned over 93 percent of his body and required his wife, Rhoda, to make horrendous decisions alone, choosing to use artificial skin to save his life while he was in a coma for six months. McCarthy details the couple's struggle along with the science that put Ted back on the tractor, if only for a brief time.

RD101 2006-049073 978-0-443-10297-4

Adams's outline of fractures, including joint injuries, 12th ed.

Hamblen, David L. and A. Hamish R.W. Simpson.

Churchill Livingstone, ©2007 328 p. \$63.95 (pa)

Meant for medical undergraduates and trainee surgeons, nurses, and physiotherapists, this text from Hamblen (orthopedic surgery, U. of Glasgow and U. of Strathclyde, UK) and Simpson (orthopedics and trauma, U. of Edinburgh, UK), outlines the management of injuries to the musculoskeletal system. This edition has been updated to include the most recent conservative and surgical approaches to the management of fractures. It has been revised to contain extended artwork, an enhanced anatomical classification system, a new chapter on osteoporosis and fragility fractures in the elderly, and advances in cell biology and molecular genetics.

RD119 2006-103338 978-1-57626-223-8

Dallas rhinoplasty; nasal surgery by the masters, 2d ed.; 2v. (3 DVDs included)

Title main entry. Ed. by Jack P. Gunter et al.

Quality Medical Publishing, ©2007 1516 p. \$475.00

Derived from the Dallas Rhinoplasty Symposium, the first edition of this authoritative reference was published in 2001; 32 new chapters have been added for this second edition, of which nine on secondary rhinoplasty instruct readers on how to manage and correct deformities. The two volumes offer a stunningly clear presentation in 72 contributed chapters and approximately 3,350 color illustrations, including photos and Gunter Rhinoplasty Diagrams (which are explained in the front matter). Coverage begins with basic perioperative and surgical concepts and then proceeds through dorsum, tip, alar base, and chin. Following are sections on secondary rhinoplasty, management of airway dysfunction, and special topics. The concluding section comprises four personalized chapters on the approaches of Gunter, Rohrich, Toriumi, and Guyuron. Three included DVDs present video on cadaver dissection, primary rhinoplasty, and secondary rhinoplasty using rib cartilage grafts.

RD119 978-1-85315-770-7

Plastic surgery survival guide to trauma.

Nakhjjevani, Amir et al.

Royal Society of Medicine Pr., ©2007 128 p. \$49.95 (pa)

Aimed at junior doctors new to plastic surgery, this guide proffers advice primarily on the immediate management of emergency hand trauma and covers local anesthetic blocks, nail-bed injuries, mallet finger, nerve injuries, tendon injuries, hand fractures, crush injuries, replants and revascularizations, penetrating foreign bodies, extravasation injuries, high-pressure injection injuries, and deliberate self-harm. It also provides lesser coverage of infections, burns, and facial and lower limb trauma. The text includes anatomical illustrations, color photos of common injuries, and diagrams illustrating trauma management procedures. Distributed in the US by BookMasters.

RD123 2006-015413 1-58829-595-8

Bone marrow and stem cell transplantation.

Title main entry. Ed. by Meral Beksac. (Methods in molecular medicine; 134)

Humana Press Inc., ©2007 234 p. \$129.00

At present stem cells can be quantified and sorted successfully but transduction, labeling and in vivo tracking of stem cells are notoriously difficult to accomplish and produce low yields. With its examination of HLA typing, PCR-SSP typing and HLA antigens, this handbook primarily focuses on these issues within new research in hematopoietic stem cells. It covers the molecular profiling of hematopoietic stem cells, methods for imaging cell types, HLA typing for transplantation, sequence-specific primed PCR typing of HLA Class I and Class II alleles, the role of natural killer cells, the association of HLA and KIRs, double labeling, molecular methods of locating undesirable cells, detection of impending graft rejection, and data analysis techniques.

RD549 0-89203-424-6

Limited incisions for total hip arthroplasty.

Title main entry. Ed. by Mary I. O'Conner. (Monograph series; 36)

Am. Acad./Orthopaedic Surgeons, ©2007 72 p. \$50.00 (pa)

Hip replacement surgery can make the difference between a patient's living with limited mobility and pain and that same patient's leading a relatively normal life. However, traditional total hip arthroplasty required very large incisions, leading to extended recuperative times and the high risk of infection, whether in the surgical unit or later when patients are attempting to care for the wound at home. When new incision techniques were announced to the media, both they and potential recipients immediately caught on to the idea that "minimally invasive" surgery was available, giving rise to misinformation and some unreasonable expectations. This collection of monographs with exceptional photographs and illustrations gives practitioners the current range of approaches, including the single-incision anterior, two-incision, muscle-sparing anterolateral Watson-Jones, direct lateral transmuscular, and limited incision posterior along with new material on rapid recovery after limited incision surgery.

RD561 2006-038700 978-0-7360-6535-1

Understanding and preventing noncontact ACL injuries.

Title main entry. Ed. by Timothy E. Hewett et al.

Human Kinetics Pub., ©2007 315 p. \$78.00

Thirty-four international academics, researchers, and clinicians from the fields of public health, sports medicine, and biomechanics contribute 21 chapters offering the most current research on noncontact ACL injury. Topics addressed include why such injuries occur, who is most at risk for these injuries, why female athletes suffer these injuries at a much higher rate than their male counterparts, and the effectiveness of programs designed to reduce the risk of noncontact ACL injury. The text also contains resources for those who would like to learn more about how to implement a prevention program in their school, sport club, or league. Illustrated with b&w photographs, charts, tables, and diagrams. For physicians, scientists, athletic trainers, physical therapists, clinicians, coaches, athletic directors, and athletes and their parents.

RD571 978-1-85315-755-4

Making the cut in South Africa; a medico-political journey.

Naudé, Johan.

Royal Society of Medicine Pr., ©2007 172 p. \$29.95 (pa)

This volume contains the memoirs of South African urologist and transplant surgeon Naudé (emeritus, U. of Cape Town, South Africa), who at one time worked in the same transplant unit as renowned heart surgeon Christian Barnard. The memoirs, which span from the late 1960s to around 2005, detail Naudé's medical achievements primarily, but also reflect on the politics of South African apartheid as it impacted his medical practice; present his thoughts on the HIV/AIDS epidemic; and describe what he considers the highlight of his career; his work in establishing a teaching program in urology in Mozambique. Distributed in the US by BookMasters.

RD593 2006-103399 978-1-58890-389-1

The legacy of Harvey Cushing; profiles of patient care.

Title main entry. Ed. by Aaron A. Cohen-Gadol and Dennis D. Spencer.
Thieme Medical Publishers, ©2007 568 p. \$129.95

A co-publication of Thieme Medical Publishers and the American Association of Neurological Surgeons, this beautifully illustrated book presents an awe-inspiring record of the work of the founder of modern neurosurgery. From his personal collection in the Brain Tumor Registry, preserved for 60 years in the Yale University Library, 800 of Cushing's surgical drawings and photographs of tumor specimens and of patients before and, sometimes, years after surgery are interwoven with his notes at every stage of care. The text also includes letters from family members and death reports—all of which humanize each case in an extraordinary way. Cushing's meticulous observations and his dedication to his patients make him an inspiring model for neurological surgeons and neuropathologists and, indeed, physicians in any specialty. The book is oversize: 9.25x12.25".

RD594 978-3-527-31504-8

Model organisms in spinal cord regeneration.

Title main entry. Ed. by Catherina C. Becker and Thomas Becker.
Wiley-VCH, ©2007 400 p. \$190.00

This work offers an overview of central nervous system regeneration for students, clinicians, and researchers planning to enter the field of neural regeneration. Coverage encompasses the strengths and weaknesses as well as possible applications of different models. Part I reviews the state of current research in spinal cord injury in mammals, through 2006, and Part II details mammalian and non-mammalian models of spinal function. Part III demonstrates how diverse non-mammalian regenerating model systems contribute to the understanding of spinal cord regeneration, and Part IV examines non-mammalian models of optic nerve regeneration, with discussion of applications to spinal cord regeneration. The editors are affiliated with the Center for Neuroscience Research at the University of Edinburgh, UK.

RD594 2006-034606 978-1-4051-2206-1

Surgical management of spinal cord injury; controversies and consensus.

Title main entry. Ed. by Arun Paul Amar.
Blackwell Futura, ©2007 256 p. \$119.95

North American neurosurgeons and other medical specialists review the controversies pertaining to the emergency, diagnostic, medical, and surgical management of spinal cord injury, and summarize the foundations of rational treatment paradigms. A major goal of the anthology is to convince surgeons that treatment is possible, an opinion still not widely accepted. Among the topics are pharmacotherapy, the timing of decompressive surgery, principles of spine stabilization, pediatric patients, and traumatic vascular injury to the cervical spine.

RD598 2006-004982 978-1-58829-605-4

Handbook of complex percutaneous carotid intervention. (CD-ROM included)

Title main entry. Ed. by Jacqueline Saw et al. (Contemporary cardiology)
Humana Press Inc., ©2007 334 p. \$185.00

Written for interventional cardiologists, vascular surgeons, interventional radiologists, interventional neurologists, and others participating in the management of patients with carotid and vertebral artery stenosis, this handbook focuses on percutaneous intervention extracranial carotid artery stenosis, but also provides coverage of percutaneous intervention of intracranial stenosis, vertebral artery stenosis, and acute stroke. Presented by Saw (cardiology, U. of British Columbia, Canada), Exaire (interventional cardiology, Instituto Nacional de Cardiología "Ignacio Chávez," Mexico City), Lee (interventional cardiology, Hillsboro Cardiology, US), and Yadav (cardiovascular medicine, The Cleveland Clinic Foundation, US), the 24 included chapters review current clinical experience, explain techniques of carotid and vertebral artery stenting, and offer case illustrations of intervention approaches. The CD-ROM contains video associated with the case illustrations and reproductions of all the color illustrations found in the text.

RD598 978-1-903378-52-6

Vascular access simplified, 2d ed.

Title main entry. Ed. by Alun H. Davies and Christopher P. Gibbons.
TFM Publishing Ltd., ©2007 246 p. \$45.00 (pa)

Sometimes in dialysis access surgery it seems you cannot get there from here. Not only are procedures sometimes unexpectedly complex, but there simply are more of them to do with more variation as the population of patients with end-stage renal failure continues to increase. This edition has been updated to reflect the growth in dialysis access care and includes new chapters on peritoneal dialysis, pediatric hemodialysis, graft materials (both biological and synthetic), the role of the nurse and even on the perspective of the patient. The contributors supply very clear clinical photographs, diagnostic imagery or line drawings just when they are needed, and cover such topics as indications for chronic renal access, aspects of temporary vascular access, radiological assessment, primary access for hemodialysis, tertiary vascular access, complex vascular access, complications, infections, function and surveillance, intervention to ensure continued access, and vascular access procedures in children. US Distribution by BookMasters.

RD686 2006-035618 978-0-8031-3415-7

Wear of articulating surfaces, understanding joint simulation; proceedings.

Symposium on Wear of Articulating Surfaces: Understanding Joint Simulation (2005: Dallas, TX) Ed. by Stanley A. Brown et al.
ASTM International, ©2006 129 p. \$55.00 (pa)

The 13 papers report on current efforts to simulate the wear of orthopedic joint systems, an endeavor that is still struggling to predict clinical results with any usable reliability. The topics include a preliminary artificial neural network approach to wear scar prediction based on wear simulator input data, the surface texture analysis of artificial discs wear-tested under different conditions with a comparison to a retrieved implant, and differences of the mechanical setup of hip simulators and their consequences on the outcome of hip wear testing. No index is provided.

RD732 2006-033345 1-4160-2957-5

Pediatric orthopaedic secrets, 3d ed.

Title main entry. Ed. by Lynn T. Staheli and Kit M. Song.
Elsevier Mosby, ©2007 606 p. \$44.95 (pa)

Staheli (orthopedics, University of Washington) and Song (orthopedic surgery, University of Washington) present key points and principles important in the assessment and management of children with orthopedic problems. Material is in question-and-answer format, with bulleted lists, mnemonics, and tips. Chapters cover growth and development, etiology, evaluation, management, acute problems, sports-related injuries, various regions of the body, arthritis, tumors, infections, neuromuscular disorders, and miscellaneous disorders. This third edition features a new two-color page layout, key points boxes, and lists of web sites, plus a smaller, more portable size (5.5x8.5").

RD733 978-0-89203-451-2

Scaphoid fractures.

Title main entry. Ed. by Alexander Y. Shin. (Monograph series; 37)
Am. Acad./Orthopaedic Surgeons, ©2007 112 p. \$50.00 (pa)

Wrist fractures, once thought to be relatively rare, are actually not only common but frequently worrisome. Past wisdom advocated removing fragments to reduce injury to other structures or wiring the patient together if necessary, but advanced research dating from as far back as the 1970s has produced more effective techniques ranging from the simple to the mind-blowing. The monographs here represent some of the latest thinking on scaphoid fractures and nonunions, including that on the anatomy of the scaphoid, challenges in imaging fractures, treatment of acute fractures and nonunions, treatment and expected outcome of transscaphoid fractures, fractures in children and treatment and outcomes for long-standing scaphoid nonunions. As is usual in this series, the clinical photographs and illustrations are excellent.

RD768 978-1-58890-557-4
AO spine manual; 2v. (DVD-ROM included)

Aebi, Max et al.
Thieme Medical Publishers, ©2007 1528 p. \$599.95
Published in a handy horizontal format (9.75x9.25") that allows the book to lie open, this two-volume text contains the principles and techniques (Vol.1) and clinical applications (Vol.2) as taught by AOSpine International, which is part of the AO Organization, based in Switzerland. Volume 1 is a revised version of the 1998 AO spine manual (AO ASIF principles in spine surgery, published by Springer). The new text reflects the new course in spine surgery taught according to the AO organization principles (and serves as its textbook). Volume 2 contains surgery applications, with each application discussed in terms of an actual case carried out by the author. The DVD-ROM contains the entire two-volume text, exercises, video clips of surgical procedures, and a glossary. There are over 50 authors, who are specialists in the U.S., Canada, and Europe. The editors are Max Aebi of the U. of Bern, Switzerland; Vincent Arlet of the U. of Virginia, Charlottesville; and John K. Webb of the Queen's Medical Centre in Nottingham, the UK.

OPHTHALMOLOGY, OTORHINOLARYNGOLOGY

RE48 2006-039508 978-1-57886-596-3
Eyes for learning; preventing and curing vision-related learning problems.

Orfield, Antonia.
Rowman & Littlefield Education, ©2007 302 p. \$34.95 (pa)
Developmental behavioral optometrist Orfield believes that a good number of students who struggle actually are visually impaired and need corrective measures such as lenses or exercises. She points out that many children do not receive complete vision tests that assess the child's ability to do close work such as reading and writing. She gives teachers, assessors and parents methods to determine whether a child has a visual learning disability and where to turn for confirmation and treatment. She also gives advice about having proper facilities and activities that will enhance vision for affected and normal children.

RE48 2006-046682 0-323-03469-1
Ophthalmology secrets in color, 3d ed.

Title main entry. Ed. by James F. Vander and Janice A. Gault. (The secrets series)
Elsevier Mosby, ©2007 460 p. \$44.95 (pa)
Vander and Gault (surgeons at the Wills Eye Hospital in Philadelphia) have edited 52 chapters by specialists on the symptoms, diagnosis, and treatment of cornea diseases, glaucoma, cataracts, ocular deviations, and retina disorders. Following the series' format, the chapters present the nuts and bolts of each subject in a direct question-and-answer format. The third edition adds numerous color photographs.

RE51 2007-006831 978-0-275-99345-0
Fact and fiction of healthy vision; eye care for adults and children.

Kitchen, Clyde K. (The Praeger series on contemporary health and living)
Praeger, ©2007 189 p. \$49.95
Aimed at general readers, this text explains the basics of eye care for seniors, adults, and children. Using plain language, ophthalmologist Kitchen provides information on eye anatomy, vision testing, and corrective lenses and discusses common problems such as itchy eyes, cataracts, and macular degeneration. Developments in refractive surgery are also reviewed. The author is affiliated with St. Jude Hospital in Fullerton, California.

RE71 2006-011949 1-58890-452-0
Pocket atlas of ophthalmology.

Schlote, Torsten et al.
Thieme Medical Publishers, ©2006 247 p. \$39.95 (pa)
Four doctors at the Tuebingen University Eye Clinic review the clinical signs, symptoms, diagnosis, and treatment of eyelid malformation, orbital diseases, strabismus, conjunctiva, cornea anomalies, lens opacity, glaucoma, macular degeneration, and optic neuropathy. Color photographs on the right-hand pages illustrate the wide variety of eye conditions seen during examination. Originally published in German as *Taschenatlas Augenheilkunde* in 2004 by Georg Thieme Verlag.

RE91 2006039686 978-1-55642-795-4
The low vision handbook for eyecare professionals, 2d ed.

Brown, Barbara. (The basic bookshelf for eyecare professionals; 3)
Slack Inc., ©2007 164 p. \$37.95 (pa)
Low vision is not defined by specific acuity limits but includes any functional visual loss after the correction of refractive error and presbyopia. It is also not defined by "what everybody wants," because experience of low vision differs so widely from individual to individual. Former practitioner Brown gears her writing to optical students and entry-level assistants by describing the history of care for low vision, including the evolution of devices and techniques meant to compensate for vision loss. She presents optical and non-optical ("daily living") aids, electronic and computer-assisted aids, history-taking, assessment of visual function, emotional and social aspects of vision loss, rehabilitation and referrals, and providing low vision care in the private practice or clinic. Brown also provides a set of case studies for those working on exams.

RE451 2006-100223 978-1-55642-799-2
Curbside consultation in cataract surgery; 49 clinical questions.

Title main entry. Ed. by David F. Chang et al. (Curbside consultation in ophthalmology series)
Slack Inc., ©2007 256 p. \$79.95 (pa)
With answers to 49 of the toughest questions in cataract surgery and expert pearls throughout, this reference serves high-volume surgeons as well as students. Experts from all over North America offer their answers to the questions that arise in the preoperative stage, during the operation and after. The interoperative questions are particularly valuable because they address preoperative issues detected in the first examination as well as the problems that arise without warning in the operating room. Many questions come complete with color clinical photographs and illustrations included in the answers, and the index is well-organized and easy to use when time is of the essence. Each question and answer set includes selected references.

RE661 2006-024144 1-58829-620-2
Retinal degenerations; biology, diagnostics, and therapeutics.

Title main entry. Ed. by Joyce Tombran-Tink and Colin J. Barnstable. (Ophthalmology research)
Humana Press Inc., ©2007 466 p. \$165.00
An aging population, the diabetes epidemic, and the stigma associated with loss of vision has put retinal research firmly on the fast track. This collection of articles, which includes narratives by those living with retinal degeneration, covers the latest research in specific conditions, the mechanisms underlying degeneration and new strategies for treatment. Mechanisms addressed here include diabetes, statins, Drusen, RPE lipofuscin, genetic modifiers, X-linked retinal dystrophies and synaptic remodeling, while therapeutic strategies include the suppression of photoreceptor cell death, cell-based therapies, IPE transplantation, retinal transplantation, stem cells, encapsulated cell technology, neuroprotective factors, and carbon anhydrase inhibitors. Diseases covered include age-related macular degeneration, Leber congenital amaurosis, Stargardt disease, X-linked juvenile retinoschisis, retinal degeneration related to Usher syndrome and retinitis pigmentosa. The editors provide a general index.

RE725 2005-056237 0-7234-3405-0
The neuro-ophthalmology survival guide.

Pane, Anthony et al.
Elsevier Mosby, ©2006 415 p. \$79.95 (pa)
Pane, a practicing neuro-ophthalmologist and his co-authors help ophthalmologists without neurological specialization figure out why patients present with blurred vision or field loss, swollen disc(s) but normal vision, transient visual loss, double vision, "seeing things," abnormal movement of the visual world, abnormal eye movements without visual symptoms, unequal pupils, ptosis, facial weakness or spasm and unexplained orbital or eye pain or headache. They begin with a section on the top 20 or so things one needs to know first and then cover the aforesaid clusters of symptoms, assessments, treatments, and indicators referral is the best plan of action. They also explain the particulars of the neuro-ophthalmological history and examination. The images and clinical photographs are particularly well done and helpful, as is the index.

- RF46 2006-036143 978-1-4051-3656-3
ABC of ear, nose, and throat, 5th ed.
 Title main entry. Ed. by Harold Ludman and Patrick J. Bradley.
Blackwell Publishing, ©2007 107 p. \$39.95 (pa)
 Designed as a quick reference for general practitioners or other non-specialists, students and nurses, this compact but illustration-packed text has been updated to include the latest in technologies and terminology as well as new materials on facial pain, head and neck tumors, sleep ataxia, epistaxis and advances in CT and MRI imagery. The 19 chapters are sorted by presentation, including pain in the ear, discharge from the ear, hearing impairment in adults and children, acoustic neuromas, facial palsy, paranasal sinus diseases, breathing disorders, swallowing problems, voice disorders, traumas, halitosis, neck swellings and head and neck cancers.
- RF46 2006-100348 978-1-4051-4508-4
Lecture notes; diseases of the ear, nose and throat, 10th ed.
 Bull, Peter and Ray Clarke.
Blackwell Publishing, ©2007 207 p. \$34.95 (pa)
 Bull (University of Sheffield) and Clarke (University of Liverpool) outline the core clinical principles of otolaryngology, and illustrate the symptoms and techniques through color photographs. Following a description of the area and methods for examination, topics include deafness, conditions of the pinna, injury of the tympanic membrane, vertigo, facial nerve paralysis, tumors of the larynx, and disease of the salivary glands. The tenth edition adds a chapter on head and neck cancer.
- RF46 978-1-58890-304-4
Otolaryngology; a surgical notebook.
 Lee, K. J. et al.
Thieme Medical Publishers, ©2007 320 p. \$79.95 (pa)
 For residents and fellows, otolaryngologists from the US and Canada review essential steps in the most commonly encountered procedures performed by such specialists; and provide practical pointers and pitfalls that surgeons may encounter before, during, and after operations. The arrangement is by procedure, such as open sinus surgery, laryngeal and pharyngeal cancer surgery, otologic implants, and rhinoplasty and nasal fracture surgery. Line drawings, some shaded, accompany the text.
- RF260 2007-007436 978-0-8036-1376-8
Vestibular rehabilitation, 3d ed. (CD-ROM included)
 Title main entry. Ed. by Susan J. Herdman. (Contemporary perspectives in rehabilitation)
E.A. Davis, ©2007 504 p. \$102.00
 Herdman (Emory University School of Medicine) delivers current information on the management of patients with vestibular disorders in this third edition of a text/CD-ROM package for physical therapy students and practitioners. This edition contains new chapters on areas including migraine, Ménière's disease, and motion sickness; non-vestibular dizziness and imbalance, and treatment of vestibular-ocular hypofunction. There is increased emphasis on case studies. The CD-ROM contains video clips of normal and abnormal eye movements, gait problems, and treatment.
- RF290 978-92-4-159361-8
Primary ear and hearing care; training resource; 4v.
 Title main entry.
World Health Organization, ©2006 346 p. \$54.00 (pa)
 About 250 million people in the world, over half of whom live in developing countries, have disabling hearing loss. Many more have mild hearing loss or an ear disease. Medical staff in developing countries, or others in which access to health care is limited, can use these materials to train village health workers or others with minimal background to diagnose and provide basic interventions to prevent disabling hearing loss. This resource, which includes a basic brochure, intermediate-level manuals and materials for more advanced training is designed to be interactive and culturally appropriate and focuses on community involvement and raising awareness about potential hearing loss. This resource covers hearing and diseases associated with neonates, infants, children and adults, and emphasizes prevention and impacts of hearing loss on individuals' education and social life.
- RF293 978-1-59756-155-6
Tinnitus retraining therapy; patient counseling guide.
 Henry, James A. et al.
Plural Publishing, ©2007 173 p. \$89.95 (pa)
 This resource for audiologists and otologists is a companion to *Tinnitus Retraining Therapy: Clinical Guidelines*. The spiral-bound volume is designed to lay flat on a table between clinician and patient. The clinician's side contains the TRT counseling information to be conveyed, while the patient side features simple color illustrations and short phrases designed to facilitate its retention. Henry is affiliated with the Center for Rehabilitative Auditory Research at Veterans Affairs Medical Center in Portland, Oregon.
- RF294 2007-001684 978-1-58890-542-0
Audiology; diagnosis, 2d ed.
 Title main entry. Ed. by Ross J. Roeser et al.
Thieme Medical Publishers, ©2007 602 p. \$79.95
 Only seven years have passed since the first edition of the three-volume textbook series, but audiology is changing so quickly that a major update was deemed necessary. The other two volumes cover Treatment, and Practice Management. Boxes throughout the text highlight pitfalls, special considerations, controversies, and summaries of the author's point. The topics include the anatomy and physiology of the peripheral auditory system, pharmacology, evaluating special populations, and intra-operative neuro-physiologic monitoring.
- RF305 2007-007004 978-1-56368-349-7
Surgical consent; bioethics and cochlear implantation.
 Title main entry. Ed. by Linda Komesaroff.
Gaillardet University Pr., ©2007 203 p. \$65.00
 The issue arises because most cochlear implants are performed on children, whose competence to consent is highly questionable. Ethicists, educators, and Deaf leaders grapple with the question, providing alternatives to the medicalized perspective on deafness proffered by the media and the implant industry. Their topics include legal rights and responsibilities, the psycho-social development of deaf children, cochlear-implanted children in Sweden's bilingual schools, and freedom of speech for deaf people.
- RF510 2006-033490 978-0-470-06122-0
Understanding and treating psychogenic voice disorder; a CBT framework.
 Butcher, Peter et al. (Wiley series in human communication science)
John Wiley & Sons, ©2007 220 p. \$65.00 (pa)
 Psychologist Butcher and speech and language therapists Lesley Cavali and Annie Elis, both practicing in Britain, begin by explaining how to recognize dysphonia or aphonia caused wholly or in part by psychological or emotional conflict. Then they explore a number of approaches to treating the condition within the framework of cognitive behavior theory. Their topics include assessing patient history, treating symptoms, assessing and treating anxiety, and deciding when not to treat.
- RF510 2007-274371 978-0-323-04622-0
Voice and laryngeal disorders; a problem-based clinical guide with voice samples. (CD-ROM included)
 Gallena, Sally K.
Elsevier Mosby, ©2007 230 p. \$49.95 (pa)
 In this text/CD-ROM package, Galena (Department of Speech-Language Pathology & Audiology, Loyola College-Baltimore) highlights important concepts needed for the evaluation and treatment of adult and pediatric voice and laryngeal disorders. The workbook-style text features perforated pages, and contains 24 case studies for 11 disorders across the lifespan, plus pre- and post-therapy audio samples on the companion CD-ROM. The first part of the book is composed of case studies. Part II provides tools for the evaluation of disorders, and Part III presents information to assist the speech-language pathologist in planning therapy, writing goals, tracking client progress, and reporting results. Parts IV and V, containing labs and unsolved case studies, allow students to complete labs in areas cited by the American Speech-Language-Hearing Association's new Knowledge and Skills Acquisition (KASA) initiative. The CD-ROM also contains forms and other resources to use in a clinical setting.

RG101 2006-043014 978-0-323-01897-5
Obstetrics and gynecology clerkship guide.
 Title main entry. Ed. by Shahab Minassian and Mark B. Woodland.
Elsevier Mosby, ©2007 491 p. \$34.95 (pa)

This pocket guide outlines the basic knowledge needed in obstetrics and gynecology clerkships. For the 32 chapters, Minassian and Woodland (obstetrics and gynecology, Drexel U. College of Medicine) arrange information in a question and answer format by common signs and symptoms and by common, specific conditions. Practical skills, communication, ethics, and improving performance are addressed in the introduction. Contributors to the volume are recent or current faculty, residents, or senior medical students of the Drexel U. Department of Obstetrics and Gynecology. Practice cases and a practice test are included.

RG107 2006-017635 1-58829-768-3
Fundamentals of PAP test cytology.
 Hoda, Rana S. and Syed A. Hoda.
Humana Press Inc., ©2007 238 p. \$69.95 (pa)

Designed to bring students and non-specialists up to speed while still being accessible and usable as a quick reference, this primer includes basic terms, principles and anatomy along with descriptions of procedures. The authors cover basic cytology principles, basic anatomy and cytology of the female genital tract, the Bethesda system, liquid-based preparations, physiological cytology, reactive changes and organisms, human papillomavirus in cervical carcinogenesis, atypical squamous cells, low grade and high grade squamous intra-epithelial lesions, invasive squamous carcinoma, endocervical lesions, endometrial lesions, metastatic tumors, therapy-related changes, artifacts, contaminants and incidental findings. They authors include screening and management guidelines of the Pap test and newer technologies.

RG107 2007-004265 978-1-58890-254-2
Gynecological cytology.
 Nauth, Hans Friedrich.
Thieme Medical Publishers, ©2007 387 p. \$199.95

This review of current knowledge on cytomorphology of the female genital tract is illustrated with about 750 color photos and micro-images. Coverage encompasses all facets of the cellular diagnosis of gynecological disease, with focus on the latest information on modern diagnostic procedures. Following an overview of normal morphology, the book progresses through benign and malignant changes, with each organ-specific discussion containing results obtained from adjunct diagnostic methods. Other highlights include detailed presentations of differential diagnoses, and explanations of the various consequences of specific pathological findings. There is also practical advice on collecting, processing, and shipping specimens, analyzing smears, documenting findings, and efficient work procedures. The book will be useful for pathologists, laboratory assistants, gynecologists, and students. Nauth is affiliated with Cytology Laboratory, Germany.

RG133 2006-038680 978-0-7890-3044-3
Counseling pregnancy, politics, and biomedicine; empowering discernment.
 Terrell, Patricia Elyse. (Haworth series in chaplaincy)
Haworth Pastoral Press, ©2007 334 p. \$69.95

Terrell (academic visitor, theology, U. of Oxford) describes the hard questions thrown at priests, pastors and other faith-based advisors about biological ethics, secular systems of law and politics that have acquired religious overtones, and philosophies behind experimental medicine. She explains the major points of leading theories, the fight over the well-being of pregnant women and/or their unborn children, protecting women from becoming medical experimental subjects and the moral status of the embryo. She presents scientific information and major ethical issues in language pastoral care-givers can understand and appreciate, and argues for careful deliberation and moderation, but leaves some room for readers to come to their own conclusions about abortion, genetic selection, artificial reproduction and religious reasons for secular laws.

RG133 2006-051432 978-1-4000-4428-3
Everything conceivable; how assisted reproduction is changing men, women, and the world.

Mundy, Liza.
Alfred A. Knopf, ©2007 406 p. \$26.95

The author explores the myriad issues arising out of the rapid advances being made in the arena of reproductive technology. Employing a journalistic style that incorporates frequent real-world anecdotes, she explores the politics of abortion, economic and ethical issues of egg donorship and surrogate motherhood, choices arising from the growing popularity of fertility drugs, social consequences of genetically-related siblings in non-related families from egg and sperm donors, and a range of other topics.

RG493 978-1-58890-580-2
Breast cancer; early detection with mammography; casting type calcification, sign of a subtype with deceptive features.

Tabár, László et al.
Thieme Medical Publishers, ©2007 313 p. \$129.95

This is the second volume in a series devoted to describing in detail the many subtypes of breast cancer—correlating images with histopathologic findings and with patient outcomes in an effort toward improved diagnosis and treatment. The book contains some 1,000 illustrations (and a 3D viewer) to support discussion of this subtype's morphology and outcome. An original theory of neoductogenesis is presented as is the scientific rationale for using individualized treatment in response to mammographic prognostic features. The author team consists of Tabár László (radiology, Uppsala U. and Falun Central Hospital, Sweden) and his co-worker in pathology, Tibor Tot, along with Peter B. Dean (diagnostic radiology, U. of Turku, Finland; Brigham and Women's Hospital, Harvard Medical School).

RG518 2006-016948 0-295-98641-7
Generating bodies and gendered selves; the rhetoric of reproduction in early modern England.

Keller, Eve. (In vivo)
U. of Washington Press, ©2007 248 p. \$30.00 (pa)

Keller (English, Fordham U.) takes a close and careful look at the medical literature of the sixteenth to the eighteenth centuries to find the roles that gender and attitudes about gender played in the potentially deadly games of authority and fact in reproductive medicine. She uses scholarly texts, commercial midwives' books and other primary documents to locate the flow of authority and the games those with it played upon women.

RG571 2006-026263 978-1-4051-2782-0
Management of high-risk pregnancy; an evidence-based approach, 5th ed.

Title main entry. Ed. by John T. Queenan et al.
Blackwell Publishing, ©2007 471 p. \$155.00

Queenan (obstetrics and gynecology, Georgetown U. School of Medicine) et al. compile 54 chapters that outline the management of high-risk pregnancies using an evidence-based approach. Medical specialists from the US, Israel, and Ireland first discuss factors affecting pregnancy and genetics, then fetal monitoring, maternal diseases in pregnancy and obstetric complications, intrapartum complications, diagnostic and therapeutic procedures, and perinatal asphyxia and neonatal considerations. Clinical cases are provided at the end of each chapter. The book is meant for all health professionals involved in the care of women with high-risk pregnancies. This edition has been updated to reflect recent research and has two new co-authors, Spong and Lockwood (obstetrics, gynecology and reproductive services, Yale U. School of Medicine).

RG626 978-0-323-03403-6
Potter's pathology of the fetus, infant and child, 2d ed; 2v. (2 CD-ROMs included)

Title main entry. Ed. by Enid Gilbert-Barnes.
Elsevier Mosby, ©2007 2320 p. \$399.00

Edith Potter, a revered pioneer in the field, published her book in 1952. In 2001 a new editor—Potter's spiritual heir—produced an entirely new two-volume text based on *Pathology of the Fetus and Infant, 3rd ed.* (1975), with Potter's name retained at the head of the title. This is the second edition of that massive reference, published in two hefty volumes to accommodate comprehensive coverage and several thousand illustrations. Volume 1 covers genetic and developmental pathology, systemic pathology, and major anomalies of external anatomy. Volume 2 organizes material according to organs and systems. A CD-ROM is included with each volume. Among other affiliations, editor Gilbert-Barnes is with the U. of South Florida College of Medicine, and is emeritus, U. of Wisconsin Medical School.

RG626 2006-024853 1-60021-398-7

Trends in birth defects research.

Title main entry. Ed. by Pia R. Klausen.

Nova Science Publishers, ©2007 163 p. \$129.00

The six chapters in this volume discuss current research into birth defects, which, though many are treatable and curable, are the leading cause of death in the first year of life. Chapters cover: chromosomal translocations and fusion genes in human soft tissue, carrier screening for B-Thalassemia, genetic testing for late-onset disorders, lobar holoprosencephaly and behavioral disorders, medullary thyroid cancer as a paradigm for genetic screening of inherited cancers, and learning disabilities in low birth weight children. No editor credentials are provided.

RG627 2006-101913 978-0-07-144828-4

Medication safety in pregnancy and breastfeeding.

Koren, Gideon.

McGraw-Hill, ©2007 623 p. \$100.00

Established in 1985, the Motherisk Program in Toronto, Ontario counsels women exposed to drugs, chemicals, or radiation during pregnancy. Developed by the program's multidisciplinary team of specialists, this resource for health professionals reviews the toxicologic effects of all major prescription drug classes. Herbal, chemical, and radiological therapies are also discussed. A sampling of topics: antidepressant use in pregnancy; how women perceive teratogenic risk; a method for meta-analysis of epidemiological studies; and the fetal effects of cocaine. Koren is affiliated with the Hospital for Sick Children and the U. of Toronto in Ontario, Canada.

RG628 2006-011607 1-59454-573-1

ADHD and fetal alcohol spectrum disorders (FASD).

Title main entry. Ed. by Kieran D. O'Malley.

Nova Science Publishers, ©2007 265 p. \$89.00

Written primarily by clinical professionals from the United States and Canada, the 12 chapters presented here by O'Malley (psychiatry and behavioral sciences, U. of Washington) provide an overview of the history and clinical presentation of Fetal Alcohol Spectrum Disorders (FASD), i.e. Fetal Alcohol Syndrome and Alcohol Related Neurodevelopmental Disorder. Topics addressed include systems of infant, toddler, and young child care; sensory integration and sensory processing disorders; pathophysiology of Attention Deficit Hyperactivity Disorder (ADHD) in patients with ADHD and FASD; therapeutic interventions for substance abusing mothers; adult neuropsychology of FASD; identification and treatment of social communication deficits in children with FASD; multi-modal management strategies for FASD through the lifespan; and a psychodynamic perspective on FASD in the adult.

RG852 2006-018339 1-60021-284-0

New research on postpartum depression.

Title main entry. Ed. by Adrian I. Rosenfield.

Nova Science Publishers, ©2007 177 p. \$129.00

Postpartum depression affects 10-15% of women any time from a month to a year after childbirth. This collection of recent research by contributors from around the world looks at factors in postpartum depression such as psychobiology and culture, and presents research on screening programs for postpartum depression, the effect of postpartum depression and childrearing style on child development, the use of a postpartum depression screening scale among low-income ethnic minority women, and steroid hormone contributions and adult neurogenesis in animal models of postpartum depression. Editor information is not given. This review copy contains numerous typos in the preface, and occasional questionable grammar in some of the translated articles.

RG950 2006-037249 978-1-4051-4441-4

Essential midwifery practice; public health.

Title main entry. Ed. by Grace Edwards and Sheena Byrom.

Blackwell Publishing, ©2007 233 p. \$49.95 (pa)

Written primarily for midwives in the public health service in the UK and students intending to practice there, this collection of articles also makes sense in private and public health care in other systems. Contributors describe the role of the midwife within public health and particularly in equality of care, and what midwives can do about smoking during pregnancy, teenage pregnancy, sexual health, substance misuse, and domestic abuse. They also describe working in partnership in maternal mental health, supporting breast feeding, and maintaining normal birth and birth centers.

RG951 2007-271941 978-1-4160-3275-5

Introduction to maternity & pediatric nursing, 5th ed. (CD-ROM included)

Leifer, Gloria.

Elsevier Mosby, ©2007 818 p. \$61.95 (pa)

Featuring color illustrations throughout, this introductory textbook on maternity and pediatric nursing is organized by developmental stages. The accompanying CD-ROM contains videos of normal and caesarian deliveries, along with 3-D animations, an audio glossary of key terms, and patient teaching plans in English and Spanish. Leifer teaches obstetrics, pediatrics, and trauma nursing at Riverside Community College in California.

RG951 2006-046937 978-0-323-04367-0

Maternity & women's health care, 9th ed. (CD-ROM included)

Title main entry. Ed. by Deitra Leonard Lowdermilk and Shannon E. Perry.

Elsevier Mosby, ©2007 1188 p. \$84.95

Lowdermilk (nursing, U. of North Carolina at Chapel Hill) and Perry (emerita, nursing, San Francisco State U.) present the ninth edition of this comprehensive text advising nursing students on care for women's health in general, pregnancy, and birth. Detailed background and best practice advice is offered in 41 chapters discussing topics that include: genetics, alternative therapies, violence, reproductive system concerns, contraception and abortion, maternal and fetal nutrition, fetal assessment during labor, postpartum physiology, nursing care of newborns, complications of pregnancy, acquired and other problems of the newborn, and grief over the loss of a newborn. Critical thinking exercises and evidence based research articles supplement the text. The accompanying CD-ROM offers electronic resources for the reader.

RG6262 2006-024936 978-1-60021-400-4

New developments in birth defects research.

Title main entry. Ed. by Nelson A. Gaslem.

Nova Biomedical Books, ©2007 241 p. \$129.00

The authors, who are medical specialists from Europe and the US, discuss defects of the lymphatic system, neural tube defects, Ostium Secundum Atrial Septal Defect, and duplication of the alimentary tract. Four of the chapters cover cystic fibrosis, including prenatal diagnosis and the link between genetics and the disease. Like other volumes from this publisher, abstracts from chapters form most of the preface. The editor's credentials are not given. The presence of grammatical and spelling errors suggest that the volume has not been edited carefully.

PEDIATRICS

RJ48 2006-040964 978-0-443-07494-3

Manual of paediatrics; an integrated approach.

Title main entry. Ed. by Leon Polnay et al.

Churchill Livingstone, ©2006 475 p. \$29.99 (pa)

In this reference for family doctors and pediatricians, Polnay (community pediatrics, U. of Nottingham, UK) et al. provide guidelines for the diagnosis of about 100 common pediatric problems, based on published guidelines and their own clinical practices. They focus on common clinical problems and exclude tertiary care issues, and outline epidemiology, assessment, treatment, and other factors. The 101 chapters, which are contributed by pediatric specialists and others from the UK and Australia, cover topics such as equipment, facilities, and clinical records; problems with development and behavior; growth and nutrition; common clinical problems; child health promotion; social pediatrics; working with educational needs; and reference charts and tables.

RJ48 2006-046681 978-0-323-04795-1

Pediatrics.

Birnkrant, Jonathan and Anthony J. Alario. (Crash course)

Elsevier Mosby, ©2007 308 p. \$29.95 (pa)

Birnkrant and Alario, both affiliated with Brown Medical School, present fundamentals of primary care pediatrics for physicians in training. Part I, "The Patient Presents With," is a clinical approach to the symptoms, signs, and problems commonly seen in pediatric patients. Part II, "Diseases and Disorders," takes a traditional organ system approach to the clinical features, evaluation, and management of diseases and disorders. Part III, "History, Examination, and Common Indications," outlines basic skills for approaching all patients. Hints and tips boxes, chapter review questions, tables, and algorithms are included to help readers remember important points. A Web-based multiple choice self-assessment quiz is also available.

- RJ51 2006-282018 1-55009-223-5
Pediatric gastrointestinal endoscopy; textbook and atlas. (CD-ROM included)
 Title main entry. Ed. by Harlans S. Winter et al.
B.C. Decker, ©2006 188 p. \$149.95
 Covering a rapidly advancing field, Winter (Harvard Medical School) and international pediatric gastroenterologists present mini-atlases of full-color images of endoscopic procedures following the text's seven main chapters. These chapters treat multiple aspects of treating young patients with GI conditions from Crohn's disease to ingested foreign objects: historical, equipment, training, functioning of an endoscopic unit, patient management, psychological, and diagnostic. The concluding chapter speculates on the future of pediatric endoscopy, even the possibility that such instruments may become obsolete given advances in imaging. While most of the images are of current techniques, e.g., wireless capsule endoscopy, the editors have included some older ones of historical interest. The accompanying CD-ROM includes the complete text, additional color illustrations, and video clips of procedures.
- RJ53 2007-001927 978-1-55642-763-3
Occupational therapy models for intervention with children and families.
 Title main entry. Ed. by Sandra Barker Dunbar.
Slack Inc., ©2007 199 p. \$55.95
 Occupational therapists have become integral members of treatment teams in family settings, including in the process of intervention. Dunbar (occupational therapy, Nova Southeastern U.) and contributors focus on the concept that the uniqueness of occupational therapy is its emphasis on the meaningful as they describe theoretical models and applications for pediatric practice. They describe the differences among theory, frames of reference and models and then turn to a collection of approaches, including sensory integration and neuro-developmental treatment as frames of reference, the person-environment-occupation model, applications of the model of human occupation to children and family interventions, applications of the occupational adaptation model to the same population, the ecology of the human performance model, and using occupation by design to synthesize across multiple models for services to children and families. The authors include assessment and process instruments and templates.
- RJ59 2006-039231 978-0-8493-8204-8
Investigating infant deaths.
 O'Neal, Bobbi Jo.
CRC / Taylor & Francis, ©2007 226 p. \$89.95
 O'Neal, a registered nurse and medicolegal death investigator, details investigative techniques for examining unexplained infant deaths, especially those that occur in an emergency room setting. The techniques presented are used during all infant death investigations in Charleston County, South Carolina, where O'Neal is deputy coroner. They are meant to decrease time delays, ensure recovery of critical data, ensure interviews with witnesses occur, and provide detailed information regarding doll reenactments and child death reviews. Techniques follow the chronological order in which cases are investigated and include illustrative case examples.
- RJ102 2006-036144 978-0-7279-1817-8
ABC of child protection, 4th ed.
 Title main entry. Ed. by Roy Meadow et al.
BMJ Books, ©2007 106 p. \$44.95 (pa)
 Pediatricians and other medical specialists offer doctors and nurses a guide to recognizing and diagnosing child abuse. They emphasize those aspects of the clinical history, examination, and investigation that are useful in deciding whether the child's problems are the result of natural or abusive causes. Earlier published between 1989 and 1997, the reference continues to be updated to account for new information and new laws. Distributed in the US by Blackwell Publishers.
- RJ131 2006-019703 978-1-59051-071-1
Beyond the reflection; the role of the mirror behavior paradigm in clinical practice.
 Kernberg, Paulina F.
Other Press LLC, ©2006 211 p. \$26.00 (pa)
 Kernberg (former director, Cornell U. Medical School's residency training program in child and adolescent psychiatry) and collaborators detail developing psychological theory and clinical practice concerned with children's behavior in front of mirrors. They discuss parallels between maternal functions and mirror functions and their relationship to self-development and attachment. They also introduce clinical applications of diagnosis and treatment and examine methodological issues of mapping and measuring mirror behavior of children.
- RJ135 2007-012613 978-1-55766-858-5
Children with disabilities, 6th ed.
 Title main entry. Ed. by Mark L. Batshaw, Louis Pellegrino, and Nancy J. Roizen.
Paul H. Brookes Pub. Co., ©2007 792 p. \$74.95
 Batshaw (academic medicine, Children's National Medical Center, Washington D.C., and pediatrics, George Washington U.) et al. provide a textbook for students preparing to work with children with disabilities and their families, as well as educators, physical and occupational therapists, speech-language pathologists, psychologists, and others. It contains 42 chapters by pediatric and other medical specialists from the US. Along with genetics, developmental, and environmental causes, they discuss specific disabilities and genetic syndromes and interventions. Chapters in this edition have been rewritten to include an expanded focus on psychosocial, rehabilitative, and educational interventions and provide information relating to recent educational, medical, and scientific advances. Five chapters are new, addressing environmental toxins, infections and the fetus, newborn screening, patterns of development and disability, and epidemiology.
- RJ138 2006-034300 978-1-55766-854-7
Optimizing care for young children with special health care needs; knowledge and strategies for navigating the system.
 Title main entry. Ed. by Elisa J. Sobo and Paul S. Kurtin.
Paul H. Brookes Pub. Co., ©2007 291 p. \$39.95 (pa)
 Aimed at parents as well as service providers, this volume surveys key issues, policies, and practices affecting medical care for young children with special health care needs (CSHCN). Contributors include academics, researchers, health care providers, and others with extensive experience in this area. A sampling of topics: incorporating children with disabilities into family life; a pediatrician's perspective on case management of CSHCN; and the disproportionate financial burden borne by families with CSHCN. The editors are affiliated with the Graduate School of Public Health at San Diego State U.
- RJ253 2005-056176 0-323-03724-0
Primary care of the newborn, 4th ed.
 Title main entry. Ed. by Henry M. Seidel et al. (Mobile medicine)
Elsevier Mosby, ©2006 664 p. \$42.95 (pa)
 This reference guides clinicians who care for full-term newborns in the first few hours of life on well-baby development practice, screening methods, and non-acute disease management, among other primary care considerations. Chapters are in outline format and focus on topics including: prenatal visits; cultural considerations; pain and control of pain; the roles of cardiology, otolaryngology, hematology, gastroenterology, and dermatology; the health of the pulmonary, nervous, and genitourinary systems; complications such as jaundice, infection, inherited metabolic disease, and in utero drug exposure; and education for adoption, breast-feeding, childbirth education and bonding, and the discharge process, among other subjects.
- RJ320 978-1-84619-038-4
Sudden infant death syndrome; learning from stories about SIDS, motherhood and loss.
 Gurbutt, Dawne J.
Radcliffe Publishing, ©2007 115 p. \$38.00 (pa)
 Gurbutt's career has included nursing, midwifery and health visiting, with work as a university educator, a researcher, manager, and consultant in the UK. The research for this text formed part of a larger pathological study into SIDS. Based on interviews with women who had recently experienced SIDS, and professionals and volunteers who sought to try and offer support to these newly bereaved mothers, the text offers insights into SIDS and its impact on individuals and groups. For health and social care professionals, psychiatrists, psychologists, counselors, and therapists. No subject index. Distributed in the U.S. by BookMasters.
- RJ370 2007-271889 978-1-4160-0157-7
Core curriculum for pediatric critical care nursing, 2d ed.
 Title main entry. Ed. by Margaret C. Slota.
Elsevier Health Sciences, ©2006 889 p. \$61.95 (pa)
 Organized by body system, this RN reference reviews each stage of anatomical development in children, diagnostic studies, pharmacology, monitoring instruments, and the clinical presentation and management options of specific diseases. The second edition adds sections on initial stabilization of the neonatal patient and disaster preparedness to the final chapter on multisystem issues.

RJ370 2007-002800 978-0-309-10171-4

Emergency care for children; growing pains.

Title main entry. Ed. by Committee on the Future of Emergency Care in the United States Health System, Board on Health Care Services. (Future of emergency care series)

National Academies Press, ©2007 338 p. \$43.95

This report, based upon hearing testimony, custom research and questioning of all stakeholders in the pediatric emergency medical field, takes a close look at what is working and what is not in emergency care for children, including efforts to support the pediatric emergency medicine specialty, create and maintain appropriate protocols, and create a parallel emergency system for children. They make specific recommendations for beefing up present reforms, building better and more available databases and making better plans for pediatric care in disasters.

RJ370 2006-100270 978-1-4051-0110-3

Emergency care of children and young people.

Title main entry. Ed. by Karen Cleaver and Janet Webb.

Blackwell Publishing, ©2007 181 p. \$49.95 (pa)

Cleaver (family care and mental health and children's nursing, U. of Greenwich, UK) and Webb (child health and welfare, U. of Greenwich) provide, for practitioners, a reference for working with children in the emergency department setting. They compile 13 chapters by individuals who work in nursing, social care, and mental health from the UK. Following a chapter on the context of children's emergency services and childhood and family life in the UK, skills needed for effective care are detailed, as well as legal and ethical issues, the roles and responsibilities of practitioners, minor injuries, pain assessment and management, major trauma, pediatric resuscitation, acute respiratory illness, fever, sickle cell disease, and diabetic ketoacidosis. A chapter on the needs of young people in relation to substance abuse, alcohol, sexual health, and self-harm is included.

RJ370 2006-020809 978-0-8018-8569-3

From crib to kindergarten; the essential child safety guide.

Drago, Dorothy A.

Johns Hopkins U. Press, ©2007 195 p. \$45.00

Child safety specialist Drago (formerly with the U.S. Consumer Product Safety Commission) offers parents, teachers, and other caretakers this reference on avoiding and responding to major injuries in children from birth to five years of age. Chapters are devoted to specific locations and activities— one deals with bathing; another with sleep safety; and others with food, playtime, travel, and hazards of each room in the house. Prevention tips, safety checklists, and injury response techniques are incorporated with developmental, biological, and statistical background for understanding the risks of injury.

RJ370 2006-039249 978-0-07-148833-4

PALS; pediatric advanced life support, 3d ed.

Haskell, Guy H. and Marianne Gausche-Hill. (Pearls of wisdom)

McGraw-Hill, ©2007 147 p. \$22.95 (pa)

This review text is for use in preparing for the Pediatric Advanced Life Support (PALS) exam. It contains approximately 1,600 questions taken directly from the PALS course on all topics in the exam, in a question and answer format, with only correct answers provided. Topics range from recognition of shock and respiratory failure to basic life support, airway, and resuscitation. Ethical and legal aspects are also addressed. It has been updated to meet 2005 American Heart Association Guidelines. Haskell is affiliated with an EMS consulting firm and is a paramedic/firefighter. Gausche-Hill is a professor of medicine at UCLA.

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RJ387 2007-000986 978-0-7890-3253-9

Community collaborative partnerships; the foundation for HIV prevention research efforts.

Title main entry. Ed. by Mary M. McKay and Roberta L. Paikoff.

Haworth Pr., ©2007 389 p. \$59.95

McKay (psychiatry and community medicine, Mount Sinai School of Medicine, New York) and Paikoff (psychology, U. of Illinois at Chicago) assemble 17 articles that discuss community collaboration as a way to prevent the spread of HIV in the youth population. Several of the articles cover the CHAMP (Community-University Collaborative HIV-Prevention and Adolescent Mental Health Project) Family Program developed in Chicago, with specifics on its history and context, effects, board members' experiences, and its implementation in South Africa. Subjects covered are those such as parenting African American adolescents; the individual growth curves of sex among urban, adolescent, African American youth; and the influence of family factors on HIV knowledge, as well as racial socialization. Other coverage is of social problem solving skills, social support for low-income parents, family-based HIV prevention programs, and programs in Trinidad and Tobago. Articles are by CHAMP staff and participants, and individuals who work in psychiatry, psychology, and social work in the US. The book is aimed at researchers, program developers, community-based and public policy/advocacy organizations, community organizers, educators, and students. It has been co-published simultaneously as *Social Work in Mental Health*, vol. 5, nos. 1/2 and 3/4 2007.

RJ399 2006-010663 1-60021-037-6

Global dimensions of childhood obesity.

Title main entry. Ed. by Richard K. Flamenbaum.

Nova Science Publishers, ©2007 271 p. \$89.00

Twenty-six international academics and researchers contribute ten chapters on ongoing and new research into childhood obesity, a public health problem that is occurring in virtually all developed countries. The text features case studies from a range of countries and regions—South Africa, the Eastern Mediterranean region, Turkey, Iran, Denmark, the Pacific Island region—and examines a variety of issues including risks related to social status, urbanism, and poverty; energy balance regulation, genetic and neuroendocrine factors in obesity; family perceptions and understandings of child obesity; early determinants and development of child food preferences; long-term effects of obesity; and caregivers' perceptions, attitudes and behaviors related to physical activity and inactivity.

RJ416 2006-462328 1-55009-358-4

Andrew's pediatric thromboembolism and stroke, 3d ed.

Title main entry. Ed. by Paul Monagle et al.

B.C. Decker, ©2006 230 p. \$24.95 (pa)

Three pediatricians explore the secondary thromboembolic diseases that children are living long enough to be susceptible to now that many previously primary lethal disorders have become treatable to various degrees. The 33 chapters discuss the currently available therapies and present guidelines for treatment. Originally published as *Thromboembolic complications during infancy and childhood*, the third edition adds chapters on interpreting coagulation tests and giving immunizations.

RJ496 2007-016600 978-1-55766-882-0

Clinical decision making in developmental language disorders.

Title main entry. Ed. by Alan G. Kamhi et al. (Communication and language intervention series)

Paul H. Brookes Pub. Co., ©2007 390 p. \$39.95 (pa)

Kamhi (communication sciences and disorders, U. of North Carolina at Greensboro) et al. compile 19 chapters on how speech-language pathologists can assess and intervene with children and adolescents who have developmental language disorders, while including practical clinical insights. Covering an age range of infants to young adults, authors discuss assessment, diagnosis, target selection, and intervention and service delivery. Multiple languages, written and spoken language, and form and function are covered. Specifically, chapters concentrate on early literacy development, word-level reading and spelling, text comprehension, writing, alternative communication modalities, syntax and morphology skills, vocabulary knowledge, the negative social and emotional consequences associated with developmental language disorders, narrative skills, and how the No Child Left Behind Act and Individuals with Disabilities Education Act affect service delivery. Authors work in communications sciences and disorders, speech and hearing sciences, education, early childhood education, and special education in the US and New Zealand.

- RJ496 2007-018474 978-1-59756-121-1
Educating Latino preschool children.
 Kayser, Hortense.
Plural Publishing, ©2007 232 p. \$49.95 (pa)
 Kayser (communications sciences and disorders, Saint Louis U.) and her collaborators use narratives and case studies to give preschool teachers and speech language pathologists a better understanding of the specific needs of Latino preschoolers and their families. They describe how Latino children fit in the cultures of both the US and Latin America and how both nations typically handle early childhood education, then build upon these basics by describing child development and health, family and child socialization, communication disorders most common in Latino children, psychological and cognitive assessment and screening for speech and communication skills, treatment, parent programs, and avenues of further research. They include case history questions, a summary of *curanderismo* beliefs and practices, examples of morphological and syntactical markers, and provide resources for books and materials.
- RJ496 2006-039576 978-1-60021-537-7
Neuropsycholinguistic perspectives on dyslexia and other learning disabilities.
 Title main entry. Ed. by Simone Aparecida Capellini.
Nova Science Publishers, ©2007 139 p. \$89.00
 Ten Brazilian speech therapists, child neurologists, and neuropsychologists contribute nine chapters providing multidisciplinary approaches to the theoretical and practical bases of written language and its disorders. Coverage includes the neuropsycholinguistic bases of learning; the relation between oral and written language; characterization of phonological ability, working memory, reading and writing in learning difficulties; diagnostic criteria in learning disabilities; findings from recent research on remediation programs for students with dyslexia; phonological ability and auditory processing in children with dyslexia; cluttering; and a concise guide/overview of dyslexia for parents and teachers. For speech therapists, psychologists, educators, and parents.
- RJ499 2006-022956 1-59385-348-3
Multicultural understanding of child and adolescent psychopathology; implications for mental health assessment.
 Achenbach, Thomas M. and Leslie A. Rescorla.
Guilford Pr., ©2007 322 p. \$40.00
 Achenbach (psychiatry and psychology, U. of Vermont) and Rescorla (psychology, Bryn Mawr College) present a synthesis of international findings to broaden the knowledge base on cultural variations in children's emotional and behavioral problems. The authors examine similarities and differences between cultures in the problems reported for children, the prevalence of such problems, the patterning of the reported problems, and the correlates of the problems. The text presents multicultural aspects of psychopathology from two perspectives—the empirically based and the diagnostically based approaches—to contribute to new ways of understanding, assessing, preventing, and treating psychopathology. For practitioners, researchers, and students in child clinical and developmental psychology, child psychiatry, and related fields.
- RJ504 2007-295393 0-471-78536-9
The child psychotherapy progress notes planner, 3d ed.
 Jongsma, Arthur E. et al.
John Wiley & Sons, ©2007 388 p. \$55.00 (pa)
 This resource for clinicians contains complete pre-written session and patient presentation descriptions for each behavioral problem in *The child psychotherapy treatment planner, 4th ed.* Adaptable to fit the needs of particular clients, the progress notes are organized around 34 main presenting problems, such as blended family problems, attachment disorder, divorce reaction, fire setting, and speech and language disorders. The notes summarize statements for describing patient presentation and interventions implemented.
- RJ505 2006-051661 0-202-30862-6
Behavior therapy with children. (reprint, 1971)
 Title main entry. Ed. by Anthony M. Graziano.
AldineTransaction, ©2007 458 p. \$34.95 (pa)
 This survey, originally published in 1971 by Transaction Publishers, brings together work on the theory, evaluation, and application of behavior therapy for a variety of childhood behavior problems. After a historical perspective on the concept of behavior therapy, individual sections focus on research with psychotic children, anti-social or delinquent behavior, mild behavior problems, and the training of parents and other nontraditional therapists. The book can be used as a supplemental text in advanced undergraduate and graduate courses in psychology, psychiatry, social work, and education, and will be useful to professionals and paraprofessionals as well. Graziano is professor emeritus in the Department of Psychology at State University of New York-Buffalo.
- RJ505 2006-100143 978-1-84310-545-9
Spiritual healing with children with special needs.
 Woodward, Bob.
Jessica Kingsley Pub., ©2007 160 p. \$24.95 (pa)
 Woodward had explained his philosophy, based on Waldorf schools' founder Rudolf Steiner's Spiritual Science, in *Spirit Healing* (2004). Here he presents observations from his longtime practice as a Christian spiritual healer/educator at a UK residential therapeutic community for children with autism and other special needs. Following an introduction to spiritual healing and the International Camphill Movement, he presents excerpts from one-on-one healing sessions with students. The book is referenced but not indexed.
- RJ506 2006-037922 978-0-7657-0474-0
Adolescence and delinquency; an object relations theory approach.
 Brodie, Bruce R.
Jason Aronson, ©2007 185 p. \$29.95 (pa)
 For some 20 years, psychotherapist Bruce R. Brodie has worked with delinquent adolescents at a residential treatment center in California. In this text for clinicians, he describes the object relations theory approach that informs his work. Case examples are used throughout to illustrate the theoretical and treatment issues discussed. Particular attention is paid to the concept of intersubjectivity and its application with this client population.
- RJ506 2007-008807 978-1-59385-459-1
Growing up with autism; working with school-age children and adolescents.
 Title main entry. Ed. by Robin L. Gabriels and Dina E. Hill.
Guilford Pr., ©2007 302 p. \$34.00
 When children with autism are very young, just before being diagnosed or just after, their caregivers and educators have a wide range of theories and practices to use in treatment and intervention. As those same children grow up the theories and practices diminish, leaving caregivers and educators with wide gaps in their understanding. These 13 papers work at a practical level to describe how autism works in older children at individual, family and community levels, covering behavioral and emotional issues, medical health assessment and treatment, sexuality, communication and language, sensory processing disorders, assistive technology, advocacy, family resources, issues encountered in family vacations and leisure time, successful school transition and placement, using early intervention to achieve positive later results, school consultations and interventions, and criminal justice issues for those with autism.
- RJ506 2006-052496 0-471-78997-6
Handbook of parent training; helping parents prevent and solve problem behaviors, 3d ed.
 Title main entry. Ed. by James M. Briesmeister and Charles E. Schaefer.
John Wiley & Sons, ©2007 548 p. \$75.00
 This collection of 14 comprehensive articles helps those who work with parents and children, presenting advice and techniques in prevention, developmental disorders, internalizing disorders, externalizing disorders, and such conditions as primary enuresis, substance abuse, and juvenile delinquency. Topics include creating parent training for low-income ethnic minority families, teaching divorced mothers to encourage resilience in their children, finding programs for families with autistic children or those with Asperger syndrome, intervening in child anxiety, training to overcome school refusal behavior, using new public health approaches, curtailing physical abuse, treating children with oppositional behavior and with both ADHD and oppositional defiant disorder, and children with aggression. A variety of theories are applied to specific situations.

RJ506 2006-101041 978-1-84310-858-0

Helping children with nonverbal learning disabilities to flourish; a guide for parents and professionals.

Martin, Marilyn.

Jessica Kingsley Pub., ©2007 240 p. \$19.95 (pa)

Martin, a learning specialist, combines a guide to nonverbal learning disability (NLD) with the story of how her own daughter, Sara, triumphed over her NLD. She presents a comprehensive developmental profile of children with NLD so that parents and professionals can identify learners with NLD and insure they receive early intervention, and explores controversies surrounding the disorder. Offering practical advice on coping with NLD at home and at school, she describes step-by-step interventions for improving a range of skills, from writing to social skills.

RJ506 2006-032168 978-1-84310-328-8

Living alongside a child's recovery; therapeutic parenting with traumatized children.

Pughe, Billy and Terry Philpot. (Delivering recovery)

Jessica Kingsley Pub., ©2007 143 p. \$27.95 (pa)

For those who work with children and young people traumatized by abuse, Pughe (SACCS, UK) and Philpot, an author and regular writer for *The Times Higher Education Supplement* and *The Tablet*, explore effective therapeutic parenting based on the SACCS approach. They detail the effects of abuse, the care system, what therapeutic parenting deals with and what it entails, supervision, the environment, admission into residential care, the importance of food, the role of the key carer, meeting the child's developmental needs, and recovery. Both subject and author indexes are provided.

RJ506 2006-018901 978-1-59051-129-9

Reasonable people; a memoir of autism and adoption.

Savarese, Ralph James.

Other Press LLC, ©2007 463 p. \$25.95

Savarese (American literature and creative writing, Grinnell College, Iowa) offers a touching account of his 14-year-old son, DJ, a child with autism who was adopted 11 years ago by Savarese and his wife Emily, an inclusion expert who mainstreams disabled children into public schools. The memoir details how life has changed for DJ and those around him through the use of Facilitated Communication (FC), a technique in which a facilitator aids an autistic person in typing. Though the technique was largely discredited in the early 1990s, Savarese argues that it can be an effective tool, particularly in modeling literacy. Containing much of what DJ typed from age nine to twelve and concluding with a chapter composed entirely by him, the book will be of interest to parents, teachers, and clinicians working with nonverbal individuals. No subject index.

RJ506 2006-027008 978-1-57886-553-6

Student depression; a silent crisis in our schools and community.

Lebrun, Marcel.

Rowman & Littlefield Education, ©2007 213 p. \$24.95 (pa)

Depression is often difficult to diagnose in the very young. Inspired by a 10-year-old student whose behaviors he later came to understand signaled clinical depression, Lebrun (education, Plymouth State U.) writes for educators and others working with children and adolescents on how to recognize symptoms and help students with depression. He describes the types of depression and their relative incidence, the inner world of the student with depression, causes, symptoms, prevalence, assessments, influences such as sexual orientation, what teachers and parents can do for students, what students can do for themselves, medications and therapies, "online depression," signs of impending suicide, and future possibilities for diagnosis and treatment. He includes sample checklists.

RJ506 2007-006818 978-1-84310-852-8

The verbal behavior approach; how to teach children with autism and related disorders.

Barbera, Mary Lynch.

Jessica Kingsley Pub., ©2007 199 p. \$19.95 (pa)

As a nurse and mother of a son diagnosed with autism, Barbera (lead behavior analyst, Pennsylvania Verbal Behavior Project) explains an approach to skills' building and behavior change that parents of minimally vocal children can often carry out without professional help. She explains how the Verbal Behavior Approach builds on, and differs from, Lovaas' applied behavior analysis. The book includes sign language examples, sample skills tracking sheets, and resources.

RJ506 2006-032825 978-0-19-530830-3

When children refuse school; a cognitive behavioral therapy approach; therapist guide, 2d ed.

Kearney, Christopher A. and Anne Marie Albano. (Treatments that work)

Oxford U. Press, ©2007 272 p. \$39.95 (pa)

Kearney (psychology, U. of Nevada, Las Vegas) and Albano (psychology, Columbia U.) write for therapists and also clients and their caregivers in this practical guide to fixing the problem of truancy at its roots, which vary according to the individual. They find the four main causes of refusing to go to school are to relieve distress, to avoid negative social or learning evaluations, to receive attention, or to take advantage of tangible rewards outside of school. They clearly define each cause and lead readers to seek practical solutions or alternatives through thought exercises, goal-building and other cognitive-behavioral approaches. A companion parent workbook is published separately.

RJ506 2006-032825 978-0-19-530829-7

When children refuse school; a cognitive-behavioral therapy approach; parent workbook, 2d ed.

Kearney, Christopher A. and Anne Marie Albano. (Treatments that work)

Oxford U. Press, ©2007 194 p. \$29.95 (pa)

This manual is intended for parents working with a therapist to treat their children who chronically miss school or attend with great distress. This is a widespread problem, according to Kearney (psychology, U. of Nevada, Las Vegas; UNLV Child School Refusal and Anxiety Disorders Clinic) and Albano (clinical psychology in psychiatry, Columbia U.). The workbook covers reasons for school refusal, and includes treatment session homework assignments and sample logbooks for monitoring attendance and behavior. A supporting Web site offers resources. A companion therapist guide is published separately.

DENTISTRY

RK57 2007-296061 978-0-07-145637-1

First aid for the NBDE part 1.

Title main entry. Ed. by Derek M. Steinbacher and Steven R. Sierakowski.

McGraw-Hill, ©2007 686 p. \$59.95 (pa)

This study guide is designed to help dental students prepare for the National Board Dental Examination (NBDE) Part I. Written by students who "aced" the exam (the authors are 2001 graduates of the U. of Pennsylvania School of Dental Medicine), it features a concise outline format and plenty of b&w illustrations. Like the exam, the volume is organized into four main sections: anatomic sciences; biochemistry-physiology; microbiology-pathology; and dental anatomy and occlusion.

RK320 2006-103038 978-0-86715-450-4

Tooth whitening; indications and outcomes of nightguard vital bleaching.

Haywood, Van B.

Quintessence Pub. Co., ©2007 144 p. \$98.00

Haywood (oral rehabilitation, School of Dentistry, Medical College of Georgia) offers clinicians and their patients a resource on the benefits and safety of using nightguard vital bleaching, a dentist-prescribed home whitening treatment using a 10% carbamide peroxide solution applied to a custom-fitted tray. Coverage includes an overview of the technique, the importance of a proper examination, diagnosis of the discoloration, treatment of naturally yellow teeth, treatment of brown or white partial discolorations, extended treatment of nicotine and tetracycline stains, treatment options for single dark teeth, combined bleaching and restorative treatments, design and fabrication of a custom-fitted tray, treatment of sensitivity, and caries control. The text is illustrated throughout with full-color pre- and post-treatment photographs. No subject index.

RK490 2007-010200 978-1-4051-2954-1

Textbook and color atlas of traumatic injuries to the teeth, 4th ed.

Title main entry. Ed. by J.O. Andreasen et al.

Blackwell Publishing, ©2007 897 p. \$299.99

The first edition of this comprehensive reference was published in 1981, and the third, more than a decade ago; incorporating advances made since then, the fourth will be welcomed by oral surgeons, pediatric dentists, endodontists, and related specialists. Thirty-five contributed chapters focus on various kinds of trauma and optimization of healing, including inter-disciplinary treatment. In addition, clinical treatment is put in context with discussion of prevention, prognosis, economic aspects, and public awareness recommendations. Approximately 1300 figures, 800 in color, support the text. Of the three editors, two are based in Denmark, the third in Kuwait.

RK667 2007-001922 978-0-86715-465-8

Applications of orthodontic mini implants.

Title main entry. Ed. by Jong Suk Lee et al.

Quintessence Pub. Co., ©2007 274 p. \$168.00

Three University of Pennsylvania professors present the results of clinical trials with the new ORLUS screw-type mini-implant for bone-supported anchorage, identify cautions for treatment planning, and outline surgical principles for implantation. The second half of the text addresses mechanotherapy in specific detail with regard to various types of predictable tooth movement. Ample color photographs and case studies illustrate implant placement and each stage of treatment.

DERMATOLOGY

RL72 978-1-904392-76-7

General dermatology; an atlas of diagnosis and management.

Title main entry. Ed. by John S.C. English.

Clinical Publishing, ©2007 142 p. \$99.95

English (dermatology, Nottingham U. Hospitals, UK) presents clinicians with this concise guide to the diagnosis and management of common dermatological conditions. The cross-referenced chapters comprise mostly photographs and brief descriptions of the appearance of conditions in the following categories: pediatric dermatoses, widespread rashes, skin tumors, hand and foot dermatoses, facial rashes, genital and oral problems, scalp and nail disorders, skin infections and infestations, and leg ulcers and wound healing. Treatment and management advice is brief and very general. This book is distributed by CRC press. Oversize: 9.75x12.25".

RL803 978-92-4-157235-4

Dermal absorption.

Title main entry. (Environmental health criteria; 235)

World Health Organization, ©2006 197 p. \$36.00 (pa)

Sex, ethnicity and hydration are only three of the many situations affecting how quickly and how thoroughly skin can absorb any given chemical. The composition of that chemical is also an important factor, as is the material in which the chemical is dissolved, the interactions between the chemical and skin, and the volume of chemical. Due to these and many other variables testing is difficult, and it is even more difficult to determine the outcome if chemicals hit skin outside of a testing situation. This report notes much more needs to be done to understand, in this dangerous age, what chemicals do to humans. It shows researchers how to conduct tests and recommend using human skin in a strictly controlled test environment featuring both in vitro and in vivo tests, promotes more accurate databases and encourages setting better standards for testing, handling and security.

THERAPEUTICS, PHARMACOLOGY, ALTERNATIVE MEDICINE

RM125 2006-044859 0-323-03408-X

Elsevier's integrated pharmacology.

Kester, Mark et al.

Elsevier Mosby, ©2007 235 p. \$39.95 (pa)

Frequently, pharmacology is taught by basic research-based scientists only. This text takes a different approach, combining the knowledge of basic science researchers and educators, a pharmacist, and a clinician. Material on the core knowledge of pharmacology is linked to other basic and clinical science disciplines with color-coded integration boxes. There is even information on complementary and alternative medicine in each chapter. The art program features four-color illustrations and photos, and the text is written at the same level as lecture notes. Case studies, questions, and explained answers are included. The book can be used as a review and as a supplemental text. Kester teaches pharmacology at the Pennsylvania State College of Medicine.

RM147 2006-034985 978-0-7890-2609-5

Patient compliance with medications issues and opportunities.

Title main entry. Ed. by Jack E. Fincham.

Pharmaceutical Products Pr., ©2007 232 p. \$32.95

For health professionals, educators, and students, Fincham (pharmacy care and public health, U. of Georgia, Athens) discusses the issue of noncompliance with medications, compliance behavior, effects, and how pharmacists can influence patients, emphasizing how to improve and maintain compliant behavior. Coverage encompasses factors affecting noncompliance and its impact, related drug therapies, measuring and evaluating noncompliance, ethics, and a case study of compliance and disease state management in older people with hyperlipidemia. Four of the chapters are by other authors who work in the pharmacy field in the US.

RM170 2007-002619 978-1-58528-158-9

Teddy bear book; pediatric injectable drugs, 8th ed.

Title main entry. Ed. by Stephanie J. Phelps et al.

Am.Soc./Health-Sys.Pharmacists, ©2007 580 p. \$82.00 (pa)

This edition, which has been substantially updated, contains 221 entries on the most commonly used pediatric medications, including over-the-counter medicines such as aspirin. Entries for each medication include dosages, adjustments in organ dysfunction, maximum dosages. IV push protocols, intermittent and continuous infusion protocols, other routes of administration, maximum concentration, cautions related to administration, and other possible additives. This oversized volume is easy to read and useful as central desk reference in a clinical setting.

RM170 2006-033544 978-1-4051-4896-2

UCL Hospitals injectable drug administration guide, 2d ed.

Title main entry. Ed. by Pharmacy Department.

Blackwell Publishing, ©2007 239 p. \$39.95 (pa)

Drawing on the experience of specialist pharmacists at University College London Hospitals, this guide to administering medicines by injection is meant for nurses and other health care professionals. It includes intravenous, intramuscular and subcutaneous methods. This edition has been revised and updated, including 20 new monographs, new local practice recommendations, and new information on drug-drug compatibility and more on the use of the non-touch technique method of preparation and infusion devices. The first section covers general information such as preparation on wards, infusion pumps, and syringe pump compatibility. The second section, which takes up about two-thirds of the book, is a table that contains medicine monographs in alphabetical order. Information covers formulation, injectable method, preparation, stability, compatibility, pH, suitable solutions for flushing, sodium content, displacement value, acute bedside monitoring guidance, and infusion device recommendations. Most of the information is related to adult patients, but certain medicines include information on administration to children. The guide does not address cytotoxic medicines or those solely administered by the intramuscular or subcutaneous route. There is no index.

RM171 2007-005271 978-3-8055-8239-1

Advances in transfusion safety; proceedings.

IABS International Conference on Advances in Transfusion Safety (4th: 2005: Sydney, Australia) Ed. by Elizabeth M. Dax et al. (Developments in biologicals; v.127)

S. Karger, AG, ©2007 270 p. \$236.50 (pa)

An October 2005 symposium examined methods and advances in achieving universal safety for blood and blood product transfusion, in both developed and developing areas. Papers from the symposium describe advances in transfusion safety in all aspects of the blood transfusion process, including establishment of services, donor selection, emerging infectious agents in blood, safe testing, and risk and safety assessment, and look at transfusion and blood safety in the Asia-Pacific, the roles of government and regulation, the use of blood and its products, and the need for effective communication between agencies and to the public. Some specific subjects covered include parasitic infections in the blood supply, the use of multiplex NAT in blood screening, the Singapore experience of supply and safety through one agency, and risk communication with non-experts. Dax is affiliated with the National Serology Reference Laboratory in Australia. There is no subject index.

RM184 2007-004266 978-1-58890-567-3

Teaching atlas of acupuncture; channels and points; v.1

Quirico, Piero Ettore and Tiziana Pedrali.

Thieme Medical Publishers, ©2007 402 p. \$149.95

In this updated English edition of *Punti Meridiani di Agopuntura* (c. 1998?), a married couple of medical doctors with the Centro Studi Terapie Naturali e Fisiche (CSTNF) Acupuncture School in Turin, Italy, offer acupuncturists at all levels a visual reference guide for the location and indication for all acupuncture points and their anatomic relations. Tables summarize the primary channels and points most frequently used in clinical practice. Appendices map the fundamental elements of selected modern techniques, including auricular acupuncture (without mentioning its application in treating drug addiction). The text contains some 204 color and b&w illustrations, and an alphabetical index of acupuncture points. For comparison between Western and Traditional Chinese Medicine indications for specific points, readers are referred to volume 2.

RM216 2007-272578 978-1-4160-2611-2

Nutrition essentials and diet therapy, 10th ed. (CD-ROM included)

Peckenpaugh, Nancy J.

Elsevier Saunders, ©2007 680 p. \$54.95 (pa)

Peckenpaugh, a dietitian and lecturer in health at the State U. of New York College at Cortland, provides a textbook that reviews science-based information on basic health care nutrition. It is meant to prepare health care professionals when providing nutritional guidance based to individuals. Nutrition care, illnesses, and promoting good health are emphasized. The book has been updated to match the 2005 Dietary Guidelines for Americans, the MyPyramid Food Guidance System, and other guidelines. Discussions of bariatric surgery, renal disease, low-carbohydrate versus low-fat diets, diabetes, and pressure ulcers has been updated and expanded. There is also more emphasis the prevention of cancer and childhood obesity, and food safety. Also new are 50 nursing review questions presented in multiple-choice NCLEX format.

RM267 978-0-471-74302-6

Aminoglycoside antibiotics; from chemical biology to drug discovery.

Arya, Dev P.

Wiley-Interscience, ©2007 319 p. \$115.00

Streptomycin was the first of the aminoglycoside antibacterial drugs, and its progeny have become the standard of treatment since the late 1940s. Directed at new researchers without the benefit of a couple of decades of work in the field, this explains the initial work of Selman Waksman to produce streptomycin, then proceeds to such topics as the biochemistry and genetics of aminoglycoside producers, mechanics of aminoglycoside antibiotic resistance, the development and action of kanamycin and neomycin class antibiotics, NMR structural studies and RNA interaction, structural comparisons between prokaryotic and eukaryotic ribosomal decoding, binding of antibiotics to the aminoacyl-tRNA site of bacterial ribosome, the chemistry and biological relevance of metalloaminoglycosides, adverse effects of aminoglycoside therapy, new efforts at targeting HIV-1 RNA, and novel targets for aminoglycosides.

RM267 2007-005710 978-0-7817-9464-0

Antibiotics basics for clinicians; choosing the right antibacterial agent.

Hauser, Alan R.

Lippincott Williams & Wilkins, ©2007 318 p. \$32.95 (pa)

Practitioners are in the same boat as students when it comes to antibacterials; everything is new again, so it is difficult to keep up. This covers just enough to get clinicians back on track about dosages and availability of agents and helps them make decision that will, of course, kill or cure. Hauser (microbiology, immunology and medicine, Northwestern U.) synthesizes a range of resources to cover basic science as well as material relevant to treatment, including a refresher on bacteria and a comprehensive review of the antibacterial agents currently available. He provides definitive therapy and empiric therapy and provides a dozen clinical cases along with review questions and answers. Appendices include materials on prescribing for children and pregnant women along with references.

RM300 2006-296959 1-58716-160-5

Basic pharmacology; understanding drug actions and reactions.

Hernandez, Maria A. and Appu Rathinavelu. (CRC Press pharmacy education series)

CRC / Taylor & Francis, ©2006 369 p. \$69.95

Aimed at first-year pharmacy students, this textbook introduces the principles of chemistry and biology necessary to understand drug interactions at the cellular level. Sample topics include structural determinants of drug action; the distribution and excretion of drugs; drug-induced enzyme inhibition; and receptor regulation and signaling mechanisms. B&w illustrations accompany the text throughout. The authors teach at Nova Southeastern University's College of Pharmacy.

RM300 2005-057231 978-0-8412-3927-2

Pharmacology for chemists, 2d ed.

Cannon, Joseph G.

Oxford U. Press, ©2007 317 p. \$64.50

Based on a three-day course given by the author under the auspices of the American Chemical Society, this self-study textbook introduces organic chemists to the field of pharmacology (as distinct from medicinal chemistry). Following an overview of some general concepts of pharmacology, Cannon describes how various types of drugs affect the peripheral and central nervous systems. The pharmacology of the cardiovascular system is covered in the final section. References have been extensively updated for the second edition, and the glossary has been expanded.

RM301 2006-038595 978-1-4200-4671-7

Basic pharmacokinetics. (CD-ROM included)

Hedaya, Mohsen A. (CRC Press pharmacy education series)

CRC / Taylor & Francis, ©2007 300 p. \$79.95

In this reference and self-study tool, Hedaya (clinical pharmacy, Tanta U.) presents both standard printed text and a CD-ROM (with interactive computer-based presentations) covering the essentials of pharmacokinetics—important for drug development, preclinical evaluations, and clinical use of drugs. Introducing concepts in ways that do not require an intensive mathematical background, he covers the pharmacokinetic behavior of drugs administered intravenously, orally and by intravenous infusion, addressing principles and then the specifics of single intravenous administration, drug absorption following oral administration (including biopharmaceutical considerations and rates), steady states during multiple drug administrations, renal drug elimination, metabolic pharmacokinetics, disease state and drug pharmacokinetics, nonlinear pharmacokinetics, multi-component pharmacokinetic models, intermittent intravenous infusion, data analysis, physiological approaches to hepatic clearance, and the relationship between pharmacokinetics and pharmacodynamics and therapeutic drug monitoring. Answers to exercises are included.

- RM301 978-1-57439-273-9
Drug facts and comparisons 2008, pocket version.
 Title main entry.
Facts & Comparisons, ©2007 1335 p. \$74.95 (pa)
 Derived from the desk reference of the same name, this fairly compact version contains abridged monographs for use in clinical situations and for quick reference. This edition includes a range of new drugs, including inhaled insulin, new combination drugs, new individual and group monographs, and information on more than 600 generic drugs (with over 2,000 representative trade names) in charts for quick comparisons. Agents include those for nutrient, hematological, endocrine, metabolic, cardiovascular, renal, genitourinary, respiratory, central nervous, gastrointestinal, dermatological, ophthalmic and optic systems and also cover systemic anti-infective, biologic and immunologic agents. This also offers special coverage of drugs requiring quick confirmation of dosing, warnings, interactions and adverse reactions. The index is sorted by generic and trade names of drugs. Appendices include lists of FDA pregnancy categories and controlled substances and basic information on the management of acute hypersensitivity reactions, calculations, normal laboratory values, general management of acute overdose, and poison control resources.
- RM301 2006-010598 978-1-60021-056-3
New research on pharmacogenetics.
 Title main entry. Ed. by Linda P. Barnes.
Nova Biomedical Books, ©2007 620 p. \$79.00
 Pharmacogenetics is the study of genetic variation in drug metabolism, with a view toward improving drug safety. This work presents overviews of the latest research trends in the field, plus a substantial annotated bibliography. In the book's four chapters, contributors look at trends in pharmacotyping for improved patient care, examine the use of pharmacogenomic time series for modeling of multi-tissue polygenic responses to corticosteroids, consider the potential for genetic detection of antimicrobial resistance determinants in gram-positive cocci, and describe clinical applications of pharmacogenetics in genetic polymorphisms and neuroleptic malignant syndrome. The bulk of the book is an annotated bibliography of journal articles and proceedings collections, about 450 pages long, in two-column format. Entries are arranged alphabetically by journal title.
- RM301 2006-046453 978-1-4160-2552-8
Pharmacology for nursing care, 6th ed. (CD-ROM included)
 Lehne, Richard A.
Elsevier Health Sciences, ©2007 1354 p. \$76.95
 During the evolution of this text from 1990 to 2007, Lehne taught mainly at the U. of Virginia School of Nursing. This update of the 2004 edition grounds current practice in basic pharmacological principles and clinical realities, focusing on indications and contraindications of therapeutic drugs for the range of conditions nurses encounter. Appendices include a guide to gender-related drugs, major drug classes, Canadian drug information, and very new drugs and key new formulations of older drugs. However, he refers students elsewhere for information on dosage calculations. The companion CD-ROM offers an audio drug glossary, updates, and access to Mosby's drug database and other online resources.
- RM302 978-1-57439-274-6
Drug interaction facts, 2008; the authority on drug interactions.
 Title main entry. Ed. by David S. Tatro.
Facts & Comparisons, ©2008 1889 p. \$94.95 (pa)
 This compendium contains 1,800 entries with interaction information on 200,000 brand name and generic drugs, arranged alphabetically according to the principal drug affected. Each drug interaction is presented in a one-page entry, with information in interacting drugs, clinical significance, significance ratings, effects and mechanisms, management, and discussion of the studies used to document the interaction. Primary references are given at the end of each entry. In addition to drug/drug interactions, there are also entries on drug/herbal and drug/food interactions. Generic name, class name, and trade name indexes aid in locating entries.
- RM315 978-0-88937-309-9
Clinical handbook of psychotropic drugs for children and adolescents, 2d ed.
 Title main entry. Ed. by Kalyna Z. Bezchlibnyk-Butler and Adil S. Virani.
Hogrefe & Huber Publishers, ©2007 346 p. \$59.00 (pa)
 Designed for use by medical professionals at the front line of care, this handbook includes such features as monographs, approved indications, off-label indications, findings from studies, availability, dosing, pharmacokinetics, adverse effects, precautions, interactions and other considerations relevant to younger patients. The landscape-oriented and chart-loaded format works well with the ring binding that allows readers to find relatively comprehensive information fast, and the references for each group of drugs are thorough. Coverage includes psychiatric disorders, drugs for ADHD, antidepressants, electroconvulsive treatment, antipsychotics, agents for treating extrapyramidal side effects, sedatives, mood stabilizers, and drugs abused. Patient and caregiver information sheets and an index of drug names are included.
- RM315 978-0-88937-345-7
Clinical handbook of psychotropic drugs, 17th ed.
 Title main entry. Ed. by Kalyna Z. Bezchlibnyk-Butler et al.
Hogrefe & Huber Publishers, ©2007 380 p. \$64.00 (pa)
 Bezchlibnyk-Butler et al., who work in mental health and psychiatry fields at universities and health centers in Canada and the US, provide a summary of information on psychotropic drugs in this guide for psychiatrists, psychologists, physicians, nurses, and other mental health professionals. The content is based on published literature that includes basic science data, controlled clinical trials, and anecdotal case reports, as well as clinical experience. Antidepressants, antipsychotics, mood stabilizers, abused drugs and the treatment of substance abuse disorders, new unapproved treatments for psychiatric disorders, and herbal and natural products are covered, with information on pharmacology, dosing, pharmacokinetics, precautions, adverse effects, pediatric and geriatric considerations, use in pregnancy, interactions, and other details, which are presented in bullet format or tables. Both American and Canadian trade names are used. This edition contains new and revised indications, updates on available dosage forms and strengths, the latest on newly approved drugs, and more user-friendly patient information sheets.
- RM315 2007-004385 978-1-58562-317-4
Manual of clinical psychopharmacology, 6th ed.
 Schatzberg, Alan F. et al.
American Psychiatric Pub., ©2007 697 p. \$79.00 (pa)
 Schatzberg and his coauthors (all: psychiatry, Stanford U. and Harvard Medical School), present his updated reference for students and practitioners of clinical psychopharmacology. Thirteen chapters contain accessible, evidence-based discussion of diagnosis and classification of major psychological disorders; the effects, indications, dosage, drug interactions, and discontinuation of seven psychotropic drug types (e.g. antidepressants, hypnotics, mood stabilizers); and details specific to emergency room and special situations treatment. The final chapter covers the uses of herbal and dietary supplements in clinical psychopharmacology. Updates include quick-reference summary tables on each class of psychotropic.
- RM316 2007-921613 978-0-495-09339-8
Drug use and abuse; a comprehensive introduction, 6th ed.
 Abadinsky, Howard.
Wadsworth Publishing Co., ©2008 482 p. \$100.95
 Alcohol was banned in the US before heroin was, an indicator that there may be some ongoing confusion even in this more experienced age about what specific drugs can do to the human body. Abadinsky (Criminal Justice, St. John's U.), however, is very specific about what drugs do, whether used medicinally, for recreation, or to appease an addiction. He examines the biological, psychological and social impact of drug abuse, expanding significantly on the illegal drug business and its connection with terrorism as well as the growth in prescription drug abuse and inhalants, herbal stimulants, "club drugs," and drug testing policies in the workplace. He describes the history of drug legislation, the effects of drugs on the nervous system (including depressants and stimulants, hallucinogens and marijuana, the sociology and psychology of abuse, treatment, prevention, enforcement and decriminalization.

- RM324 2007-004054 978-1-59477-174-3
Drugs of the dreaming; oneirogens, Salvia divinorum and other dream-enhancing plants.
 Toro, Gianluca and Benjamin Thomas.
Park Street Press, ©2007 149 p. \$12.95 (pa)
 Italian environmental chemist Toro and Australian researcher Thomas, a specialist in the effects of drugs and plant extracts on humans, particularly in Papua New Guinea, explore a special class of psychoactive plants that are used to induce and enhance dreams. Besides profiling 26 specific plants, they discuss non-ordinary states of consciousness, a history of dream, sleep and dream chemistry, oneirogens in ancient and modern magic, from animal sources, from food sources, and endogenous and synthetic compounds.
- RM332 978-3-527-31058-6
Antidepressants, antipsychotics, anxiolytics; from chemistry and pharmacology to clinical application; 2v.
 Title main entry. Ed. by Helmut Buschmann et al.
Wiley-VCH, ©2007 1214 p. \$390.00
 Following prefaces that summarize the history of advances and challenges in psychopharmacology in the past half century, pharmaceutical company scientists in Europe present a brief perspective from the Esteve company (Barcelona) for which Buschmann works, and an extensive glossary of terms in the field. Volume one (which includes the master table of contents) offers up-to-date information on the classification, neurobiological, clinical, pharmacological, experimental, theoretical, chemical, and metabolic aspects of the major depressive disorders and psychoses. Volume two (which contains the index) covers the neurobiological and clinical aspects of anxiety disorders and attention deficit and hyperactivity disorders, and the chemistry of therapeutic drugs in development. The volumes include chemical diagrams and useful summary charts. The herbal remedy St. John's wort is briefly mentioned.
- RM666 2007-005889 978-1-59120-193-9
The desktop guide to herbal medicine; the ultimate multidisciplinary reference to the amazing realm of healing plants, in a quick-study, one-stop guide.
 Mars, Brigitte.
Basic Health Publications, ©2007 375 p. \$19.95 (pa)
 An herbalist/nutritional consultant from Boulder, Colorado presents general guidelines for the use of herbal medicines and profiles of some 180 herbs from agrimony to zedoary. The guide includes a glossary of the physiological effects of herbs, resources, general references, and indexing by English and botanical names as well as general subject. There are no studies cited or illustrations.
- RM721 2006-282404 0-323-03734-8
Deep tissue massage treatment; a handbook of neuromuscular therapy. (CD-ROM included)
 Fernandez, Enrique Fabian. (Mosby's massage career development series)
Elsevier Mosby, ©2006 250 p. \$31.95 (pa)
 Intended for practicing massage therapists, this handbook illustrates the treatment of 24 common conditions through detailed instructions and color photographs. The opening chapters explain how to apply trigger point sustained compression, friction, and myofascial release. Spiral binding. The DVD-ROM contains 90 minutes of video demonstrating the techniques and routines.
- RM721 2006-046925 978-0-323-04138-6
Thai massage; a traditional medical technique, 2d ed. (CD-ROM included)
 Gold, Richard.
Elsevier Mosby, ©2007 224 p. \$36.95 (pa)
 The second edition of this introduction to Thai massage features a wealth of full-color photographs, drawings, and other illustrations. Gold (Pacific College of Oriental Medicine) provides Western practitioners of the healing arts with background information on traditional Thai medicine and then supplies detailed guidelines for the safe and effective practice of traditional Thai medical massage (Nuad Bo'Rarn). A 45-minute video of a massage session with step-by-step narration is found on the accompanying DVD.
- RM735 2006-010814 978-1-4051-4687-6
Occupational therapy evidence in practice for physical rehabilitation.
 Title main entry. Ed. by Lois M Addy.
Blackwell Publishing, ©2006 257 p. \$53.99 (pa)
 Focusing on the physical component of occupational therapy, this text for professionals and students helps them better understand mental health diagnoses and what they mean when working with patients, a process which has the complications and disadvantages of both mental and physical impairment. Contributors focus on evidence-based practice as they explain the relationship between mental illness and physical rehabilitation in cases such as children with developmental coordination disorder, road accident victims, people living with multiple sclerosis, sufferers of rheumatoid arthritis or ALS, recipients of hip replacements, older people who are at risk of falling and those recovering from strokes.
- RM950 2007-271755 978-0-323-04130-0
Assistive technology in the workplace.
 De Jonge, Desleigh et al.
Elsevier Mosby, ©2007 253 p. \$54.95 (pa)
 De Jonge (occupational therapy, University of Queensland, Australia) outlines the process for selecting and using assistive technology in the workplace. As background, she describes these specialized technologies, and outlines various models of technology application. She then looks at assistive technology from the user's perspectives, and gives recommendations for overcoming barriers likely to be encountered at each stage of the process, from choosing the best technology to requesting technology from employers and evaluating outcomes. Strategies are illustrated with vignettes and case studies. Ten appendices list professional organizations, funders, listservs, research resources, and questions therapists and clients should ask in different situations. The book will be useful to occupational therapists and people with disabilities themselves.
- RS57 2007-272642 0-323-03031-9
The nurse, the math, the meds; drug calculations using dimensional analysis. (CD-ROM included)
 Mulholland, Joyce M.
Elsevier Mosby, ©2007 618 p. \$48.95 (pa)
 This volume, which uses the dimensional analysis method, instructs nursing students on how to do drug calculations. Mulholland, an adult nurse practitioner and nursing education consultant, provides a text meant for classroom and independent use by students at all levels in nursing courses, and as a review for nurses and physician assistant students. After a general math review, chapters present dimensional analysis based on everyday problems, reconstituted medications, parenteral medication calculations, oral and injectable hormones, and medications for infants and children. A critical thinking approach is emphasized. The CD-ROM contains additional instruction and practice problems.
- RS189 978-1-4051-3358-6
Analysis of drug impurities.
 Title main entry. Ed. by Richard J. Smith and Michael L. Webb.
 (Analytical chemistry)
Blackwell Publishing, ©2007 275 p. \$199.99
 For practicing and student analytical chemists, this volume is an overview of challenges and techniques in identifying and quantifying drug impurities. The eight chapters, written by individuals from pharmaceutical companies, the FDA, and research institutes from the UK and US, cover organic impurities in drug substances and products, stereochemical impurities, and low-level measurement of potent toxins. A systematic approach to impurity identification is described, as well as the use of chromatography and online structure elucidation, preparative isolation, and the impact of continuous processing. Smith and Webb work in analytical sciences at GlaxoSmithKline in the UK.

RS199 2006-036304 978-1-58528-136-7

Gibaldi's drug delivery systems in pharmaceutical care.

Title main entry. Ed. by Archana Desai and Mary Lee.

Am.Soc./Health-Sys.Pharmacists, ©2007 525 p. \$88.00 (pa)

For use in pharmacy education, this text shows how clinical pharmacists can integrate knowledge in pharmaceutical sciences and therapeutics with an understanding of patient-specific factors to advise prescribers on dosage formulations to best meet patients' needs. Assembling 26 chapters, Desai (pharmaceutical sciences, Midwestern U. Chicago College of Pharmacy) and Lee (pharmacy and health sciences education and pharmacy practice, Midwestern U. Chicago College of Pharmacy) aim to make therapeutics a critical component of teaching about dosage formulation and to make dosage formulations and drug delivery systems an integral part of instruction in therapeutics. Chapters begin with basic concepts of routes of administration, formulation design, bioavailability and bioequivalence, and formulation and chemical modifications for prolonging drug action. This is followed by a discussion of clinical decision-making and individual chapters arranged according to therapeutic category, which illustrate applications of concepts from the first part of the book. Contributors are clinical pharmacist practitioners and pharmaceutical scientists from the US.

RS380 2006-030898 978-0-471-21386-4

Handbook of pharmaceutical biotechnology.

Title main entry. Ed. by Shayne Cox Gad.

John Wiley & Sons, ©2007 1659 p. \$195.00

Broad in scope, but not superficial, this handbook comprises 50 contributed chapters addressing the use of biological processes to discover and produce new therapies. The opening articles discuss the advantages of integrative biotechnology, and whether the sequencing of the human genome was worth it (yes). Subsequent contributions focus on specifics, including issues in the development of macromolecules compared with small molecules, the design of nanoparticle drug delivery systems, process validation, plasmid DNA and messenger RNA, immunogenicity of therapeutic proteins, nucleic-acid-based therapies, stem and artificial cells, and the promise of individualized therapy, among other topics. Regulation and intellectual property issues, and bioterrorism are also addressed.

RS403 978-3-527-31456-0

Mass spectrometry in medicinal chemistry.

Title main entry. Ed. by Klaus T. Wanner and Georg Höfner.

Wiley-VCH, ©2007 437 p. \$190.00

Being mostly from pharmaceutical companies, the chemists here focus on the early drug discovery process, describing selected screening procedures for low relative molecular mass drug candidates supplemented by other approaches suitable for elucidating target-ligand interactions and pharmacokinetics. Among their topics are gel permeation chromatography spin columns coupled with ESI-MS, library screening using ultra-filtration and mass spectrometry, and fragment-based drug discovery.

RS420 2007-008052 978-0-471-67200-5

Drug discovery research; new frontiers in the post-genomic era.

Title main entry. Ed. by Ziwei Huang.

Wiley-Interscience, ©2007 521 p. \$125.00

Huang (Burnham Institute for Medical Research and U. of California at San Diego) compiles 20 chapters that review current drug discovery research in post-genomic biomedical and biopharmaceutical science. Scholars and researchers who contributed to the volume work in disciplines relating to biomedical and drug discovery research at universities, institutes, and companies in the US, Europe, and China. They outline methods and techniques that can be used in biopharmaceutical research in the post-genomic era, with a focus on that in the US and China. Computational, structural, chemical, synthetic, and biological approaches, as well as translational research, are covered. These examine specific topics such as virtual screening, the prediction of properties such as metabolism and toxicity, the delivery of small and large molecule drugs or probes of protein functions, case studies in the research and development of anticancer drugs and those used in neurodegenerative disease, and the research and applications of stem cells. The audience for the book consists of practitioners and researchers in the pharmaceutical field and related industries, and students in biotechnology and pharmaceutical science.

RS424 2006-100696 978-1-58488-905-2

Statistical design and analysis of stability studies.

Chow, Shein-Chung. (Biostatistics; 19)

Chapman & Hall/CRC, ©2007 330 p. \$89.95

For those in pharmaceutical research and development, this volume describes the principles and methodologies in the design and analysis of stability studies. Chow (biostatistics and bioinformatics, Duke U. School of Medicine) also provides a summary of current regulatory perspectives and recently developed statistical methods in the area. Basic concepts in stability testing are explained, followed by short-term stability studies such as accelerated testing, estimating drug expiration dating periods, study designs such as bracketing and matrixing, and statistical analysis with fixed batches. Other chapters cover random batches, the linear mixed effects model, discrete responses, multiple components, and frozen drug products. Testing for dissolution is discussed, including *United States Pharmacopeia-National Formulary (USP-NF)* testing, and scale-up and postapproval changes, mean kinetic temperature, and optimality criteria. Some chapters are revised based on chapters in *Statistical Design and Analysis and Pharmaceutical Sciences*.

NURSING

RT31 0-9775153-0-3

A short history of a big idea; the Joanna Briggs Institute 1996-2006.

Jordan, Zoe et al.

Ausmed Publications, ©2006 140 p. \$34.95 (pa)

The Joanna Briggs Institute for Evidence Based Nursing is a collaborative research institute based in Adelaide, South Australia. This narrative describes JBI's founding in 1996 and traces its development through the first decade of its existence. Supplemental materials found in the appendix include a glossary and lists of JBI staff, committees, fellows, and affiliates. Jordan is manager of communications at JBI. Distributed in the U.S. by BookMasters.

RT41 2007-273345 0-323-03937-5

Basic nursing; essentials for practice, 6th ed. (CD-ROM included)

Title main entry. Ed. by Patricia A. Potter and Anne Griffin Perry.

Elsevier Mosby, ©2007 1176 p. \$78.95

The 37 chapters in this textbook introduce the five-step nursing process, describe measures for taking care of patients' basic human needs, and walk through 45 nursing skills with color photographs. The sixth edition adds a chapter on community-based nursing. The included CD-ROM contains NCLEX-style review questions, video clips, and an audio glossary. Potter is a research scientist affiliated with Barnes-Jewish Hospital, and Perry teaches in the School of Nursing at Saint Louis University Health Sciences Center.

RT41 2006-036998 978-1-4051-4598-5

Principles of care.

Lloyd, Hilary et al. (Vital notes for nurses)

Blackwell Publishing, ©2007 234 p. \$29.95 (pa)

Lloyd (nursing, practice development and research, Northumbria U. and City Hospitals Sunderland NHS Foundation Trust, UK) et al. provide a guide for nursing students and newly qualified nurses that introduces the principles of nursing care. Coverage encompasses principles of health and illness, nursing practice, healthcare delivery, and professional issues, with chapters relating theory to practice. Specific topics address communication, developing therapeutic relationships, patient education, decision-making, evidence-based practice, the modernization of the National Health Service, and other subjects.

RT49 2007-270850 978-0-323-03954-3

Nursing care plans; nursing diagnosis and intervention, 6th ed.

Title main entry. Ed. by Meg Gulanick et al.

Elsevier Mosby, ©2007 1154 p. \$52.95 (pa)

A collection of 62 nursing diagnosis care plans and 137 disease/disorder care plans for patients in a wide range of settings. Each disease/disorder care plan identifies relevant nursing diagnoses with related factors, defining characteristics, and expected outcomes. Then it details both ongoing assessment and independent and collaborative therapeutic interventions, with detailed rationales. The sixth edition adds care plans for latex allergy response, fall risk, nausea, impaired memory, Lyme disease, SARS, and sleep apnea. Eighteen additional care plans and an electronic plan constructor are provided on a companion website.

RT50 2007-005720 978-1-58255-556-0

Complete guide to documentation, 2d ed.

Title main entry.

Lippincott Williams & Wilkins, ©2008 438 p. \$49.95 (pa)

The clinical settings and specialties may vary, but the need for accurate and consistent documentation that meets standards for use remains the same. Written primarily for nurses, this book gives students and practitioners practical advice and plenty of practice in nursing documentation and medical records. Along with most obvious reason for excellent documentation, that being better care of patients, this also gives the legal, ethical, performance and reimbursement implications of documentation, the types of documentation systems currently in use, and documentation in care settings such as acute, long-term, home health and ambulatory practice. It also gives documentation methods particular to certain specialties and legally perilous charting practices. The array of sample formats and completed examples is extensive, and the authors include relevant standards and lists of outcomes and interventions for common nursing diagnoses.

RT51 2007-006353 978-1-58255-559-1

All things nursing.

Title main entry.

Lippincott Williams & Wilkins, ©2008 662 p. \$42.95 (pa)

This guide provides information on all aspects of nursing, covering nursing practice, disease profiles, legal aspects, and career options. Written by nurse practitioners and professors from the US, it is a reference consisting of bullet points, step-by-step instructions, tables, and illustrations for everything from assessment and laboratory tests to adult and pediatric disorders, ethics, and nursing specialties.

RT55 2006-039220 978-0-07-147040-7

Medical-surgical nursing certification examination review.

Title main entry. Ed. by Scott H. Plantz et al. (Pearls of wisdom)

McGraw-Hill, ©2007 158 p. \$34.95 (pa)

What is the major cause of acute pancreatitis in the US? What can anti-coagulants due to a man's sex life? Why does CPR work? Medical-surgical nurses need to know the answers to all these questions, whether in practice, in theory, or on the MSNCB and ANCC exams. This last-minute review and refresher sticks to the questions and the only correct answer, a system which works best with the computer-delivered exam than the old-fashioned "multiple guess" system. Readers work through pearls that closely follow the logic of the exams and step through body systems from the cardiovascular on to the musculoskeletal, orthopedic, ears, eyes, nose, throat, pulmonary, gastrointestinal, homeostatism, metabolic, endocrine, neurological, infectious disease, rheumatology, immunology, genitourinary, resuscitation and shock, reproductive, dermatology, wound care, trauma, and perioperative care. Other materials cover patient management, ethics and trauma. The large format makes note-taking easy.

RT55 2007-296058 1-4160-2912-5

Saunders Q&A review for the NCLEX-PN examination, 3d ed.

Silvestri, Linda Anne.

Elsevier Health Sciences, ©2007 723 p. \$36.95 (pa)

This review text for nursing students contains 1,500 NCLEX exam practice questions based on the NCLEX-PN test plan, as well as alternate item format questions (new to this edition), and a comprehensive exam of 85 questions. Silvestri (nursing, Salve Regina U.), who also runs companies that conduct NCLEX review courses, organizes questions by categories of Client Needs and Integrated Processes as covered in the latest NCLEX exam test plan. Each question has rationales for all of the answers. Also covered are test-taking strategies, tips on preparation, and a description of one student's experience. The CD-ROM contains all of the questions from the book, plus 1,500 additional ones.

RT81 978-0-8261-4137-8

Annual review of nursing research; v.25, 2007: Vulnerable populations.

Title main entry. Ed. by Adeline Myamathi and Deborah Koniak-Griffin.

Springer Publishing Co., ©2007 375 p. \$56.00

Although race and ethnic discrimination and the poverty it causes are primary causes for inequality in health care, other factors such as gender, age (whether very young or very old), sexual orientation, cultural minority status and chronic disability are also reasons a group may be denied care and become vulnerable to poor health. The collection focuses on the development of nursing research in these medically vulnerable populations, including integrating biologic methods and conducting research in reducing health disparities. Topics include development of theory and methodology, culturally-sensitive intervention, prevention of infectious diseases, partnerships with historically minority universities, the next generation of new nursing scholars, genomics and proteomics, and multidisciplinary disciplines of study. Articles on reducing health disparities address HIV symptoms, culturally appropriate interventions, community-academic partnerships, and a case study on Thai women living with HIV/AIDS. Includes lists of contents for past 10 editions.

RT81 2007-270672 1-4160-2640-1

Understanding nursing research; building an evidence-based practice, 4th ed. (CD-ROM included)

Burns, Nancy and Susan K. Grove.

Elsevier Saunders, ©2007 586 p. \$58.95 (pa)

The expansion of the responsibilities of nurses, their increasing specialization, and their short supply make it more important than ever that nursing practice be evidence-based. Burns (nursing emeritus, U. of Texas at Arlington) and Grove (nursing, U. of Texas at Arlington) help students and practitioners develop skills in reading and using research to develop an evidence-based practice. With several new pedagogical features, including new research examples and critiques, they cover analyzing quantitative and qualitative approaches, identifying problems and developing hypotheses, reviewing the literature, applying nursing theory and research frameworks, examining ethics, clarifying research designs, conducting outcomes research, analyzing populations and samples, measurement and data collection, understanding statistics, critiquing research for practice and applying research to patient care for evidence-based practice.

RT82 2007-921987 978-1-4160-4473-4

Professional nursing; concepts & challenges, 5th ed.

Chitty, Kay Kittrell and Beth Perry Black.

Elsevier Health Sciences, ©2007 488 p. \$49.95 (pa)

This undergraduate textbook describes the current status of nursing in the United States, educational pathways to becoming a registered nurse, the nursing process, stages of illness, the science of evidence-based practice, nursing theories, and the health care delivery system overall. The fifth edition streamlines the former 22 chapters into 16 chapters.

RT84 2007-272738 978-0-323-04518-6

Mosby's textbook for long-term care nursing assistants, 5th ed. (CD-ROM included)

Sorrentino, Sheila A. and Bernie Gorek.

Elsevier Mosby, ©2007 738 p. \$48.95 (pa)

This text/CD-ROM package prepares students to function as nursing assistants in long-term care settings. New to this fifth edition, the CD-ROM contains video clips and animations illustrating key procedures, interactive exercises, an audio glossary, and an anatomy and physiology review program. For this edition, some longer chapters have been divided into shorter chapters, and new content has been added in many areas, including preventing falls, assisting with the nursing process, moving and transferring the resident, and nutritional support. New learning features include chapter-opening lists of procedures covered, and boxes on teamwork, time management, and communication. The text can be used in community colleges, technical schools, high schools, nursing centers, and other agencies. Sorrentino is a curriculum and health care consultant, and Gorek is a gerontology consultant.

RT86 2007-005727 978-0-8261-1575-1
Healing presence; the essence of nursing.

Koerner, JoEllen Goertz.
Springer Publishing Co., ©2007 226 p. \$35.00 (pa)
Consultant Koerner takes students and practitioners back to the roots of their love of nursing and their hope of helping patients practice self-healing. She focuses on how the perception of the nurse as a "healing presence" affects the patient, caregivers and the nurse, and how spirituality and science combine in the nurse to encourage healing. She describes nursing as sacred work, then works through such ideas as the benefits of a holistic world view, the creative art of composing a life, unfolding inner potential, seeking a path of balance for health, integration for quantum healing, the path of engagement, authentic living and the path of becoming, using healing virtues as expressions of the soul, and weaving a web of life to include healing.

RT86 2007-273030 978-1-4160-2314-2
Policy & politics in nursing and health care, 5th ed.

Title main entry. Ed. by Diana J. Mason et al.
Elsevier Health Sciences, ©2007 1066 p. \$64.95 (pa)
Mason (*American Journal of Nursing*) and coauthors in health policy and the U.S. Navy Nurse Corps. present this updated volume guiding professionals and activists in healthcare and nursing policy in the US through a diverse group of issues in 34 chapters with subcategories. Readers are first introduced to political philosophy, health care policy, and strategies for navigating and succeeding in policy enforcement and reform. Later chapters provide background and action strategies for such topics as: the nursing workforce supply, health care for the uninsured, how legislation and regulation are practiced, mental health parity, the roles of interest groups, folic acid advocacy, nursing issues worldwide, community action projects, and many more. Case studies of policy in practice are abundant, along with suggested further resources. House speaker Nancy Pelosi authored the foreword.

RT89 2006-028215 978-1-4051-3523-8
International Council of Nurses; nursing leadership.

Shaw, Sally.
Blackwell Publishing, ©2007 215 p. \$59.50 (pa)
Shaw, an international nurse consultant, describes the principles of effective leadership and effective leadership development programs in nursing. She focuses on how to obtain and sustain good outcomes for individuals and health services, with an emphasis on change. She uses examples and case studies from the International Council for Nurses' Leadership for Change program in about 50 countries around the world. Resource-limited health systems and settings are detailed in different cultures, socio-political systems, and economic environments, with discussion of theory and attitudes, skills, and behaviors. It is not a book about management but does explain the difference between management and leadership. It is also meant to be accessible to anyone who speaks English as a first or second language and can be applied to other fields.

RT89 2006-280009 978-0-8020-3791-6
Managing to nurse; inside Canada's health care reform.

Rankin, Janet M. and Marie L. Campbell.
U. of Toronto Press, ©2006 222 p. \$27.95 (pa)
Girded with new information systems and professionally-based management processes, the health care organization of Canada seems to be moving toward "accounting logic" rather than real care. Rankin (nursing, Malaspina U-College) and Campbell, (human and social development emerita, U. of Victoria) look closely at all that is happening on the front lines in this ethnology, and find that patients are quickly becoming considered after rather than before costs. They discuss how nurses feel as they are called upon to "manage care" rather than participate closely in the healing process; attempts to get nurses to support the new systems; and nurses' understanding of the heightened levels of responsibility thrust upon them.

RT97 2006-100266 978-1-4051-3999-1
Promoting health.

Title main entry. Ed. by Jane Wills. (Vital notes for nurses)
Blackwell Publishing, ©2007 196 p. \$34.99 (pa)
Addressing pre-registration nursing students and newly qualified nurses, Wills (London South Bank University) explores factors in health promotion and public health, such as health inequalities, health promotion settings, and the role of the nurse. She reviews some of the evidence showing how social factors affect health, then describes various models of health promotion. She discusses strategies for promoting health through infection control, promoting healthy lifestyles through behavioral change, and working with communities. Health promotion in the hospital setting is also covered. Each chapter includes objectives and summaries, case studies, and activities.

RT98 2007-272109 978-1-4160-2887-1
Community/public health nursing; promoting the health of populations, 4th ed.

Title main entry. Ed. by Mary A. Nies and Melanie McEwen.
Elsevier Saunders, ©2007 739 p. \$79.95
This textbook explores the complex factors in the community that affect individual, family and community responses to health states, suggests prevention strategies at the population level, and provides case studies with care plans and interventions at each level: individual, family, and community. The fourth edition adds chapters on disaster preparation and forensic nursing.

RT108 2007-012380 978-0-8261-2144-8
Disaster nursing and emergency preparedness for chemical, biological, and radiological terrorism and other hazards, 2d ed.

Title main entry. Ed. by Tener Goodwin Veenema.
Springer Publishing Co., ©2007 656 p. \$95.00
Veenema (Center for Disaster Medicine and Emergency Preparedness, University of Rochester) prepares students in the health professions for work in disasters. Chapters are in sections on disaster preparedness, disaster management, natural and environmental disasters, special topics, and disasters caused by chemical, biological, and radiological agents. Learning features new to this edition include section-opening key messages and learning objectives, and chapter case studies, study questions, and Internet activities. New chapters in this edition are designed to strengthen the health systems focus of the book and to add a clinical perspective. There are only a few b&w photos. The book can be used as a text for students and as a reference for professionals.

RT120 2007-270884 0-323-04032-2
Emergency nursing secrets, 2d ed.

Title main entry. Ed. by Kathleen S. Oman and Janee Koziol-McLain. (Nursing secrets series)
Elsevier Mosby, ©2007 516 p. \$42.95 (pa)
Written in a question and answer format, this guide provides information for emergency nurses treating patients with urgent care needs. Oman (research nurse scientist, U. of Colorado Hospital) et al. compile 39 chapters by nursing faculty, specialists, and others in health care from the US, who cover practice topics (such as triage and risk management), chief complaints, trauma care, and special populations, including pregnant women, seniors, children, and underserved, abused and neglected patients. Contributors address concepts about patient advocacy, family involvement, collaborative practice, patient teaching, ethical decision-making, and evidence-based practice. Added to this edition are chapters on resuscitation, endocrine and hematological emergencies, and drug and alcohol-impaired patients. Information on emergency preparedness, including bioterrorism and weapons of mass destruction, has been expanded.

RT120 2007-271158 978-0-323-03214-8
Mosby's critical care nursing reference, 4th ed.

Stillwell, Susan B.
Elsevier Mosby, ©2006 849 p. \$44.95 (pa)
Designed for clinical use by practitioners and in class by students, this edition has been updated to include current terminology and treatments as well as new information on palliative and pain care in the critical care unit, methods to assess confusion and sedation, and special body system chapters. Stillwell (nursing, Arizona State U.) and contributors also take the often-overlooked but significant parts of the profession in hand with chapters on the care of children in the adult intensive care unit, pharmacology for critically ill patients, psychosocial issues and complementary therapies. They address multisystem disorders, monitoring techniques and end-of-life situations and supply a very good glossary along with helpful definitions of abbreviations.

AGRICULTURE, PLANT CULTURE, FORESTRY

S417 2007-272721 978-0-8020-3813-5
Wheat and woman, rev. ed.

Binnie-Clark, Georgina.
U. of Toronto Press, ©2007 313 p. \$27.95 (pa)
Binnie-Clark (1871-1955) bought a 320-acre farm in Saskatchewan in 1906, when she was 33 years old. At the time she was a journalist with no knowledge of agriculture and no particular inclination to become a farmer. Her account of her first three years was published in 1914 by Bell and Cockburn in Toronto and reissued with an introduction by Susan Jackel in 1979 by the University of Toronto Press. That introduction is included in this edition, along with a new one by historian Sarah A. Carter.

- S471 978-90-868602-1-0
Stepping-stones to improve upon functioning of participatory agricultural extension programmes, farmer field schools in Uganda.
 Isubikalu, Prossy.
Wageningen Academic Publishers, ©2007 215 p. \$39.00 (pa)
 To help alleviate poverty in developing countries, local participation in agricultural development has emerged as a leading approach. In this publication of her PhD thesis (Wageningen U., the Netherlands), Isubikalu presents a “technographic” case study of this framework in practice in the form of Farmer Field Schools (FSS) in Uganda. She discusses their origins, the roles of international and national institutions, local farmers’ realities, and project type (e.g., Integrated Pest Management). The book include a summary table of FSS projects in the country, groups studied, and project compliance checklists. Distributed in the US by Enfield.
- S473 2007-275464 978-1-86914-090-8
The farming handbook.
 Smith, Barry.
U. of KwaZulu-Natal Press, ©2006 431 p. \$59.95
 Some aspects of farming in southern Africa are remarkably like those encountered elsewhere on the continent or, for that matter, any portion of the world with diverse soils and rainfall, but some are truly unique. Practitioner Smith, whose contributions to farming in southern Africa include 28 prediction models for a comprehensive range of crops, provides a compact and concise directory with very good illustrations, charts and “rules of thumb” punctuating his text. He covers natural resources, veld management, land assessment, agricultural engineering, livestock (including beef and dairy), small stock production (including native wildlife), cultivates pastures and field crops, orchards, vegetables, and timber. Distributed in the US by ISBS.
- S478 978-0-643-99342-6
Australian agriculture; its history and challenges.
 Henzell, Ted.
CSIRO, ©2007 308 p. \$72.00 (pa)
 Australian agriculture has been a “remarkable achievement,” according to this history, producing enough food and natural fiber to meet the needs of several times its own population from one of the driest parts of the world. Focusing on the technological innovations adopted by the farmers themselves, the history describes the development of each of the major commodities or groups of commodities from the settlement of the first Europeans in 1788 to the end of the 20th century. Chapters are offered on grain crops, sheep and wool, beef and dairy products, working bullocks and horses, sugar cane, cotton, fruit and vegetables, and grapes and wine. Distributed in the US by Antipodes Books and Beyond.
- S494 2006-034074 978-1-56022-170-8
Agricultural and environmental sustainability; considerations for the future.
 Title main entry. Ed. by Manjit S. Kang.
Haworth Food & Agric. Products, ©2007 224 p. \$80.00
 Kang (quantitative genetics, Louisiana State University Agricultural Center) presents work from a recent conference highlighting the latest research results on economic, ecological, and sociological issues related to agricultural and environmental sustainability. Some topics examined are soil management for food security and climate change, sustainability of the rice-wheat cropping system, tailoring conservation agriculture to the needs of small farmers in developing countries, and bacterial wilt and drought stress in banana production in Uganda. Contributors are scientists representing land grant educational institutions and international agricultural centers. The readership for the book includes crop breeders, geneticists, agronomists, horticulturalists, educators, and students. This work has been co-published simultaneously as *Journal of Crop Improvement*, v.19, nos.1/2 (#37/38), 2007.
- S494 2006-014226 978-1-933392-07-3
Food not lawns; how to turn your yard into a garden and your neighborhood into a community.
 Flores, H. C.
Chelsea Green Publ. Co., ©2006 334 p. \$25.00 (pa)
 A permaculture designer based in Eugene, Oregon, Flores offers advice about home gardening, but emphasizes the context of a garden in the complex community ecosystem. For her, gardening is not a leisure activity, but the foundation of a movement to change the environment, economy, and culture.
- S494 978-0-7748-1268-9
Genetically modified diplomacy; the global politics of agricultural biotechnology and the environment.
 Andrée, Peter.
U. of British Columbia Press, ©2007 324 p. \$85.00
 Armed with genetically engineered organisms (GEOs), scientists were convinced that they could feed an ever-increasing population with higher yields of higher quality food while offering farmers a better chance at sustainable development. However their enthusiasm and scientific achievements were met head to head with a suspicion in the very population the scientists intended to save. Andrée (political science, Carleton U.) uses GEOs as a test case in examining how perceptions of new technologies complicate global development, and how nations work out differences in ways that sometimes seem to arrest those very technologies. Along with his very accessible descriptions of the development of GEOs he also details the ways in which nations deal with something they may not entirely understand.
- S494 978-1-84339-112-8
‘More crop per drop’; revisiting a research paradigm, results and synthesis of IWMI’s research, 1996-2005.
 Title main entry. Ed. by Meredith A. Giordano et al.
IWA Publishing, ©2006 273 p. \$150.00
 This research program was more than just another project to increase crop yields. As its title indicates, this effort considered water quality and quantity integral to sustainability but also included other elements of the water-food-health-environment interface to look at issues on a broader scale and to produce immediately usable applications. This explains the innovations in methodology and focus as well as the results of that research for policy, donor, and development agencies in such topics as integrated water resources management, smallholder land and water management, sustainable groundwater management, water resources institutions and policy, water and its effects on health and the environment, and water management for agriculture. Articles also explain the context and setting of the research and the impact of that research on sustainability for Asia and Africa. US Distribution by BookMasters.
- S540 978-1-57808-514-9
Agricultural research at the crossroads; revisited resource-poor farmers and the millennium development goals.
 Bengtsson, Bo M.I.
Science Publishers, Inc., ©2007 339 p. \$59.50
 In light of a United Nations commitment to make visible improvement in the plight of the world’s poor by 2015, and founded on his more than four decades in agricultural research and development, Bengtsson (emeritus crop production science, Swedish U. of Agricultural Sciences, Hoor) addresses major issues concerning global food security and food safety, agrarian change, agricultural development, and the orientation of agricultural research to benefit the less privileged of the world. Distributed in the US by Enfield.
- S585 978-3-527-31604-5
Ullmann’s agrochemicals; 2v.
 Title main entry.
Wiley-VCH, ©2007 912 p. \$375.00
 The 18 articles of this impressive reference were drawn from the electronic edition of *Ullmann’s encyclopedia of industrial chemistry*. Each chapter provides a thorough overview of the subject, including a complete list of references. Volume One, on plant growth, contains chapters on fertilizers, ammonia, ammonium compounds, nitrates and nitrites, phosphate fertilizers, potassium compounds, urea, and plant growth regulators. Volume Two, on plant and crop protection, contains chapters on crop protection, agricultural fungicides, insect control, molluscicides, nematocides, rodenticides, weed control and biological control. Typical of the organization and thoroughness of each chapter is that on acaricides, which features an introductory section on mites, reasons for the problem, species of economic importance, their control, resistance to chemicals, older acaricides, and two lengthy sections on insecticides and toxicology. The text is directed at researchers and specialists in the agrochemical industry with knowledge of chemistry. The contributors are researchers at public and private institutions in Switzerland, the U.S., Germany, the Netherlands, Sweden, and Japan.

- S589 2006-042923 0-8493-2845-4
Agroecology; the ecology of sustainable food systems, 2d ed.
 Gliessman, Stephen R.
CRC / Taylor & Francis, ©2007 384 p. \$69.95
 In this update of the 1998 edition, said to be the most widely-used agroecology text in the US, Gliessman (U. of California, Santa Cruz) introduces undergraduates to the scientific basis for the need to convert to sustainable agroecosystems and food systems given the current agricultural crisis. He covers key environmental factors at the individual and system levels. The text, envisioned to be complemented by laboratory work, includes a foreword by a professor in Nebraska (perhaps to show that these are not just radical California ideas), a new chapter on the role of animals in sustainable agroecosystems, b&w illustrations, a glossary, Internet resources, food for thought sections, and recommended reading.
- S589 2006-030834 978-0-8493-2846-6
Field and laboratory investigations in agroecology, 2d ed.
 Gliessman, Stephen R.
CRC / Taylor & Francis, ©2007 302 p. \$39.95 (pa)
 Gliessman (agroecology, U. of California-Santa Cruz) provides a manual for the field and laboratory component of a lecture-based course in which his *Agroecology: The Ecology of Sustainable Food Systems* serves as the core text, though it can be used with a different text or without one at all. The experiments described cover environmental factors, population dynamics in crop systems, inter-specific interactions, farm and field systems, and food systems. There is no index or bibliography. No date is cited for the first edition.
- S592 2006-102349 978-1-4200-4407-2
Soil carbon management; economic, environmental and societal benefits.
 Title main entry. Ed. by John M. Kimble et al.
CRC / Taylor & Francis, ©2007 268 p. \$129.95
 Writing for scientists, policy makers, activists, and general readers, US academic and government scientists describe the benefits in several realms that result from land management practices that main or increase soil carbon. Among their topics are on-farm benefits, private and public values, organic farming, erosion, wetlands, wildlife, the flooding, surface water quality, and urban lands.
- S604 2006-101727 978-1-934043-33-2
Love of the land; essential farm and conservation readings from an American golden age, 1880-1920.
 Jack, Zachary Michael.
Cambria Press, ©2006 463 p. \$59.95
 Jack sifted his choice of writers through the opinions of top scholars in agriculture and conservation, and came up with 51 readings that reflect not only thinking at the time, but also ideas that have become important since. He actually begins in 1770. Among the better known writers are Jefferson, de Tocqueville, Emerson, Muir, Thoreau, Olmsted, Whitman, Theodore Roosevelt, Frederick Jackson Turner, Charlotte Perkins Gilman, Veblen, and Henry Wallace. There is no index.
- S605 2006-034494 978-0-7603-2469-1
Organic farming; everything you need to know.
 Fossel, Peter V.
Voyageur Press, ©2007 159 p. \$24.95 (pa)
 After making a case for organic farming that encompasses economics and human and environmental health, Fossel treats the specifics of transitioning, getting certified as organic, and succeeding at organic gardening and livestock-raising on a large scale. The guide includes color photos of good crop choices, tips, a glossary, recipes, and the advice that: "...the key to everything— your profits, your sanity, your marriage—is rich, friable soil." No further reading is suggested.
- S616 2007-014447 978-0-88150-736-2
Ogallala blue; water and life on the High Plains.
 Ashworth, William.
Countryman Press, ©2006 330 p. \$16.95 (pa)
 This is a paperback reprint of a 2006 book. An environmental and natural history writer based in Ashland, Oregon, Ashworth discusses the Ogallala aquifer, which lies just below the semi-arid High Plains of North America in the rain shadow of the Rocky Mountains from South Dakota south to the Texas panhandle. He looks at the underground ocean; the ghosts of ancient rivers; and the use, overuse, and depletion of the water. Distributed by W.W. Norton.
- S622
Australian soil fertility manual, 3d ed.
 Title main entry. Ed. by Graham Price.
CSIRO, ©2006 168 p. \$72.00 (pa)
 Updated to include new information about the effects of fertilizers and other chemicals on the environment and appropriate management strategies, along with new information on the use of lime, dolomite and gypsum, this comprehensive guide continues to be a primary source for understanding the safe use and handling of fertilizers. It covers soil fertility and productivity, soil acidity and alkalinity, salinity, nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, micro-nutrients, soil testing, plant and water analysis, diagnostic techniques, fertilizing for profits, plant nutrients and the environment, heavy metals I soils and fertilizers, precision agriculture and regulations for handling and using fertilizers. Although written specifically for Australian agriculture, basic content can be informative for those farming elsewhere. Distributed in the US by Antipodes Books & Beyond.
- S930 2007-010587 978-1-57524-287-3
Intelligent courage; natural resource careers that make a difference.
 Fraidenburg, Michael E.
Krieger Publishing Co., ©2007 203 p. \$32.50
 Fraidenburg (former executive director of the State of Washington Fish and Wildlife Commission) profiles eight men and women who have attained and thrived in high-level natural resource careers. Students nearing the end of university studies will learn from the likes of Gloria Flora (the former supervisor of Lewis and Clark National Forest who resisted pressure to allow large scale oil exploration), Tom Peterson (founder of the Center for Climate Strategies which advises governments on climate change management) and others how they worked their way up through creative means while continuing to champion their conservationist ethics.
- S934 2006-028509 978-1-84593-221-3
Transfrontier conservation in Africa; at the confluence of capital, politics, and nature.
 Ramutsindela, Maano.
CABI Publishing, ©2007 181 p. \$90.00
 An adequate analysis of conservation initiatives in Africa that cross national borders must go beyond explaining specific cases and circumstances, suggests Ramutsindela (environmental and geographical science, U. of Cape Town), but must place them in the context of the intersection between the environmental movement and the private sector, and consider the place and role of the state both in specific cases and in the movement as a whole.
- SB110 2006-922050 978-0-89118-160-6
Dryland agriculture, 2d ed.
 Title main entry. Ed. by Gary A. Peterson et al. (Agronomy; no.23)
ASA-CSSA-SSSA, ©2006 928 p. \$145.00
 In recognition of the fact that the global food supply is interconnected, this edition of the Dryland Monograph examines dryland agriculture around the world. It covers subjects ranging from fundamental soil and plant issues to management strategies that can minimize production hazards found in crop and livestock systems cultivated under dryland conditions. Initial chapters address principles underlying all dryland farming, such as water conservation, crop choices and rotation principles, and integration of ecological pest management with rotation design. Later chapters cover dryland agriculture in specific regions of North and South America, Europe, Asia, Africa, and Australia. Final chapters look at dryland agriculture research issues, and policies and market development to accelerate technological change in the semiarid zones. The book is for students, researchers, and scientists.
- SB119 2007-009674 978-1-883052-57-7
How to propagate; techniques and tips for over 1,000 plants.
 Cushnie, John.
Ball Publishing, ©2006 256 p. \$34.95
 Cushnie reminds us that most people propagated their own plants in the not so distant past. For amateur gardeners ready to take the next step beyond planting purchased stock, this veteran plant propagator presents step-by-step directions and tips for tried-and-true techniques for rooting bedding plants, perennials, shrubs, and even trees. Good plant hygiene is emphasized in the chapter on pest and disease control. The guide includes a color-illustrated directory of plants with several propagation methods (icons mark his and the easiest ones), and a glossary.

- SB123 2007-296806 978-0-8014-7368-5
Seeds for the future; the impact of genetically modified crops on the environment.
 Thomson, Jennifer A.
Cornell U. Press, ©2006 158 p. \$24.95 (pa)
 Genetically modified (GM) food has passed from mere controversy to outright fear on many levels, and according to Thomson (microbiology, U. of Cape Town) the scientific facts are often obscured by the negative fantasies. In her quantitative studies of GM crops, she finds that the benefits far outweigh the risks. For example, GM plants that resist pests do not have to be sprayed, resulting in better health for farm communities. Further, she has not seen evidence of GM crops damaging the environment even though they can be “programmed” to deliver supplemental nutrients, vaccines and antibodies. However, she also finds that GM foods, for all the hope they offer, will always have to be monitored carefully to ensure biodiversity and to assess product safety and sustainability in the long term.
- SB160 2006-051257 978-1-57808-509-5
Breeding of neglected and under-utilized crops, spices, and herbs.
 Title main entry. Ed. by Sergio Ochatt and S. Mohan Jain.
Science Publishers, Inc., ©2007 447 p. \$109.50
 For Ochatt (Institut National de Recherche Agronomique, France) and Jain (former technical officer of plant breeding and genetics, International Atomic Energy Agency), the fact that 95% of the world’s food requirements are met by only 30 major crops raises questions for the maintenance of food security, poverty alleviation, economic growth, future supply of food, and risk of rural incomes and ecosystem conservation. Thus wishing to encourage greater attention to the value of under-utilized and neglected crops, they present 20 chapter addressing the cultivation, taxonomy, socioeconomic importance, and breeding and development of these “minor” crops. Thirteen chapters focus on specific crops, including grasspea, *lathyrus*, bambara groundnut, the Andean lupin, quinoa, *chenopodium*, and cocoyam. Other chapters address less species-specific issues including the genetic improvement and utilization of underutilized crops in India, conservation of underutilized species in Malaysia, indigenous crops with potential in South Africa, and *in vitro* culture for propagation and cultivation of rare and underutilized Australian plants, and minor and underutilized spices and herbs. Distributed in the US by Enfield.
- SB176 978-90-868602-7-2
Tropical food chains; governance regimes for quality management.
 Title main entry. Ed. by Ruerd Ruben et al.
Wageningen Academic Publishers, ©2007 309 p. \$65.00
 This collection of articles describes how governance affects the chain of suppliers and consumers from sea and soil to plate and fork. The articles focus on the role of government policy and enforcement in remaining competitive in growing or catching, processing, and shipping foods. Chinese vegetables and pork processing, cocoa from Ghana, cashews from India, mangoes from Costa Rica and Nile perch all come under review along with the relevant implications of policy.
- SB301 2006-022949 978-1-56022-974-2
Medicinal and aromatic crops; harvesting, drying, and processing.
 Title main entry. Ed. by Serdar Öztekin and Milan Martinov. (Haworth food & agricultural products press)
Haworth Food & Agric. Products, ©2007 320 p. \$89.95
 Despite the burgeoning global interest in medicinal and aromatic plants (MAP), the crucial area of mechanization for harvesting such crops has been neglected according to agricultural engineers Öztekin (Cukurova U., Adana, Turkey) and Martinov (U. of Novi Sad, Serbia). In seven chapters constituting a major contribution to this fallow field, scientists from southeastern Europe and Germany review special MAP harvesting, drying, and post-harvesting processing requirements; and industrial utilization of MAP. The appendix explains features of software to assist in decision-making: FANE (Financial Analysis of New Enterprises) v.1.0. Illustrations show harvesting machinery and herbs being dried by various methods.
- SB317 2007-012172 978-1-883052-56-0
Palms and cycads.
 Squire, David.
Ball Publishing, ©2007 160 p. \$29.95
 While unrelated botanically, palms and cycads are similar-looking dramatic plants with ancient roots. In this “complete guide to selecting, growing, and propagating” them, Squire introduces their anatomy, methods of sowing coconut and other seeds, and plants for specific purposes. The guide includes a plant directory; plant hardiness maps for the US, and European and Australian temperate zones; a glossary; and indexing by common and scientific names. No information on the author’s background or further reading is supplied.
- SB351 2006-027059 1-84593-213-7
Chickpea breeding and management.
 Title main entry. Ed. by S. S. Yadav et al.
CABI Publishing, ©2007 638 p. \$198.00
 This volume contains 30 chapters that provide a global perspective on chickpea production management, compiled by Yadav (genetics, Indian Agricultural Research Institute, New Delhi) et al., with contributions from an international group of individuals in agriculture, biotechnology and genetic engineering, agronomy, biological sciences, and other fields. They discuss the chickpea’s history, origin, taxonomy, ecology, consumption pattern, nutritional and antinutritional factors, and geographic distribution. Subsequent chapters cover production management, cropping systems, nitrogen fixation, nutrients, weed and irrigation management, integrated crop production technologies and profitability in cultivation, genetics and cytogenetics, wild relatives, management of biodiversity, breeding, and quality seed production. Advancement in genomics, recent molecular techniques and development of transgenic chickpea are also described, as well as biotic and abiotic stress management techniques, seed storage, world trade, crop modeling, yield stability, parameters, and chickpea growers. The book is aimed at plant breeders, farmers, traders, nutritionalists, academic researchers, and graduate students. Distributed by Oxford U. Press.
- SB355 2006-280890 978-0-88192-759-7
Fruit & nuts; a comprehensive guide to the cultivation, uses and health benefits of over 300 food-producing plants.
 Lyle, Susanna.
Timber Press, ©2006 480 p. \$59.95
 Lyle, a horticulturist based in New Zealand, has written an A-Z of fruit and nuts of temperate and tropical regions that’s packed with interesting history and facts in addition to lots of practical information for the gardener. Published in an oversized format (8.5x11.5”), there are color photos of each species—over 300 are described—and a detailed introduction to fruits and nuts. The individual species’ entries include a full description, with information on leaves, flowers, fruits, harvest, roots, and all the details of cultivation. Inset boxes describe the uses of each. Information is included on similar species and cultivars.
- SB367 978-0-643-09203-7
Producing table olives.
 Kailis, Stan and David Harris.
Landlinks Press, ©2007 328 p. \$69.95 (pa)
 Once strictly Mediterranean, with some notable exceptions, the olive has now become important to global producers and consumers, with Australia serving as prime new territory for both. Kailis (plant biology, U. of Western Australia) and government research chemist Harris start by describe the very suitable olive tree *Olea europaea*, its components and annual events in detail, and describe how to produce high-quality raw olives through careful management of water, soil and nutrients. They give step-by-step instructions for processing table olives, including for specialty products such as pastes and tapenade, and give comprehensive directions for ensuring safety, including conducting chemical quality analysis. Landlinks Press is an imprint of CSIRO publishing, which is distributed in the US by Antipodes Books & Beyond.

SB406 2006-029452 978-1-56022-150-0
Plant biotechnology in ornamental horticulture.

Title main entry. Ed. by Yi Li and Yan Pei.

Haworth Food & Agric. Products, ©2006 517 p. \$90.00

Transgenic technology is giving a boost to ornamental plants, one of the fastest growing segments of agriculture globally. Li (horticultural/ornamental molecular biology and biotechnology, U. of Storrs, Connecticut) and Pei (agricultural biotechnology, Southwest U., Chongqing, China, who once worked in Li's lab) introduce 19 chapters by international scientists that provide an overview of advances and challenges in this field. Topics reviewed include the metabolic engineering of flower color and scent; improving crop cold, drought, disease resistance, and nutrition; and the economic and public acceptance aspects of these methods. Co-published simultaneously as *Journal of Plant Improvement*, v. 17, nos. « (#33/34) and v. 18, nos. « (#35/36), 2006.

SB413 2006-039305 978-1-883052-52-2
Beyond the camellia belt; breeding, propagating, and growing cold-hardy camellias.

Ackerman, William L.

Ball Publishing, ©2007 271 p. \$39.95

In this expansion of *Growing Camellias in Cold Climates* (2002), a research geneticist retired from the U.S. National Arboretum in Washington, DC, reassures gardeners that camellias can be grown beyond their traditional range. But advice for growing them in areas with milder winters, e.g., fall planting, does not apply in northern climes. Ackerman's discussion of hybridization and other general aspects of cultivation should be of interest to "camellians" everywhere. The volume includes color plates, camellia resources, collections and gardens as far north as Norway, technical tables, and suggested readings.

SB413 2006-013497 978-0-88192-790-0
Ornamental bamboos.

Crompton, David.

Timber Press, ©2006 306 p. \$39.95

Crompton's garden/nursery holds the National Collection (UK) of bamboos. With the gardener rather than the scientist in mind, the author advocates growing these under-appreciated grasses. After distinguishing bamboos from other plants and grasses, he reviews their history in Asian and Western horticulture, anatomy, sometimes over-exuberant growth habit, selection of suitable bamboos, cultivation, and many (some surprising) uses. The volume includes a plant directory, color photographs, botanical drawings, lists of bamboos for specific purposes, a glossary, and further reading.

SB439 978-1-877058-16-5
Eremophila and allied genera; a monograph of the plant family Myoporaceae.

Chinnock, R.J.

Rosenberg Publishing, ©2007 672 p. \$99.95

Chinnock (State Herbarium of South Australia, Adelaide) has produced a magnum opus on the substantial family of this remarkable native flowering shrub of Australia. Based on decades of research in the field, the text contains a detailed discussion of the morphology, anatomy, trichomes, floral and fruit morphology, palynology, cytology, cytogeography, reproductive biology, phytochemistry, toxicity, and traditional and horticultural uses. The location and spread of the plants and their occurrences outside of Australia are discussed. Notable is the new classification of the family, with 95 new species, 46 new subspecies, and three new genera delimited. The volume is published slightly oversized (8.5x11.5") and is heavily illustrated with color plates and superb b&w drawings. Distributed in the US by ISBS.

SB993 2007-386827 978-0-643-06959-6
Wildlife damage control.

Hone, Jim.

CABI Publishing, ©2007 179 p. \$75.00

Hone cuts across species lines and concentrates on key issues in vertebrate wildlife damage control and effective ways to reduce damage to plants, animals and humans. He describes the damage vertebrate can do, from the infamous *rattus*-based diseases to birds that destroy crops, examines the patterns and processes in wildlife damage, and the needs of various actors in this ongoing drama, including the need for biodiversity and conservation, for production in the biological community as well as the economic one, for disease control for humans and animals, and for of recreation. With each topic he provides worked examples. Distributed by Oxford U. Press

SD144 2006-021696 978-0-87013-780-8
Michigan's state forests; a century of stewardship.

Botti, William B. and Michael D. Moore. (Dave Dempsey environmental series)

Michigan State U. Press, ©2006 201 p. \$29.95 (pa)

At the beginning of the 20th century, Michigan's Forestry Commission was created concurrently with legislation establishing a system of publicly owned forests. Since then, explain Botti and Moore (both with the Michigan Department of Natural Resources), the ways that recreation, timber, fire, and conservation in Michigan's four million acres of forest have been managed has evolved many times with changing ideas in science and politics. This chronological history describes eleven eras of the Commission, its key players and legislation, and its current legacy.

SD359 2006-039344 978-0-87071-185-5
Forest of time; a century of science at Wind River Experimental Forest.

Herring, Margaret and Sarah Greene.

Oregon State U. Press, ©2007 188 p. \$22.95 (pa)

Herring (science writer, Oregon State U.) and Greene, who manages the forest, detail what the humans learned in their time there, and the impact the relationship had on forestry and the development of the Pacific Northwest across a century. They describe the early experimentation and the new awareness that such research was important to the industry and the region, the advancements first of commercial interests and then of the environmental, and the potential future of the Wind River Experimental Forest as the times of big timber draw quickly to a close.

SD387 2006-020618 1-84593-174-2
Sustainable forestry; from monitoring and modelling to knowledge management and policy science.

Title main entry. Ed. by K. M. Reynolds et al.

CABI Publishing, ©2007 527 p. \$170.00

This volume is the result of an April 2005 international conference—organized by Reynolds (Corvallis Forestry Sciences Laboratory, US Department of Agriculture Forest Service), Thomson (Pacific Forestry Centre, Canadian Forest Service), Köhl (world forestry, U. of Hamburg, Germany), Shannon (State U. of New York, US), Ray (a forest ecologist with the British government), and Rennolls (computing and mathematical sciences, U. of Greenwich, UK)—that was convened to discuss four broad themes relevant to ecologically sustainable forest management: science and policy, inventory and monitoring, statistics and modeling, and information and knowledge management. The major objectives of the conference were to review the current state of the art within the four themes and encourage cross-disciplinary dialogue. The 29 papers collected here are organized into corresponding thematic sections. Empirical material is drawn largely from American and European contexts. Distributed in the US by Oxford U. Press.

SD421 2006-039350 978-0-87071-184-8
People, fire and forests; a synthesis of wildfire social science.

Title main entry. Ed. by Terry C. Daniel et al.

Oregon State U. Press, ©2007 226 p. \$24.95 (pa)

More and more people want to live and recreate near fewer and fewer trees, and the result is often devastating wildfire. This set of a dozen interdisciplinary studies, intended for use by risk managers and policy makers, comprises the first text to integrate social science and the human dimensions of wildfire. Coverage includes an introduction to applying existing social science theories to wildfires, challenges to federal forest managers (whether the public will accept their practices, and cultural variations in that acceptance), critical initiatives prior to wildfire events and consequences during and after the fire, and socioeconomic and institutional factors within designs of wildlife migration, fuel reduction events, fire policy relating to race and rural communities, and international policy on wildlife fire migration. The editors introduce a matrix approach for understanding how people, fire and forests relate to one another.

SF1 978-90-868603-0-2
Breeding, production recording, health and the evaluation of farm animals; proceedings.

Biennial Session of ICAR (35th: 2006: Kuopio, Finland) Ed. by Juho Kyntäjä et al. (EAAP pub. no.121)
Wageningen Academic Publishers, ©2007 369 p. \$99.00
 In association with the European Federation of Animal Science (EEAP) and ProAgria (the Finnish milk recording group), the International Committee for Animal Recording (ICAR) ventured north in June 2006 to discuss domestic animal recording to improve herd management and productivity. The first session's papers discuss the development of new nutraceutical products from milk; the editor (with ProAgria) summarizes Finnish dairy advisory services and cattle breeding. The subsequent 53 papers review the latest methods in milk recording, testing, and herd identification; recording services; feeding strategies; and new technologies for management, estimating cow milk content, and rapid disease diagnosis and reporting. The volume also includes workshop proceedings on ICAR policies, national reference systems, and statistics. No index. Distributed in the US by Enfield

SF105 978-90-868603-2-6
Utilisation and conservation of farm animal genetic resources.

Title main entry. Ed. by Kor Oldenbroek.
Wageningen Academic Publishers, ©2007 232 p. \$48.00 (pa)
 Once, those so inclined kept records of their breeding stock in thick day-books and perused them over brandy after the Hunt Ball. Now that information is kept in databases that are desperately important to a livestock system that must somehow save species but also feed the world. This collection acknowledges that the system tends to favor profitable high-production animals, limiting genetic diversity and leaving other breeds to suffer extinction. Contributors cover such topics as the need for genetic diversity, strategies to move from conservation to utilization, genetic studies that can establish domestication patterns and help develop new uses, the genetic consequences of inbreeding, operation of conservation programs, and the practical implications of utilization and management, which we assume does not involve Hunt Balls and brandy. Distributed in the US by Enfield Distributing Co.

SF250 2006-034345 978-1-4051-2975-6
Structure of dairy products.

Title main entry. Ed. by Adnan Tamime.
Blackwell Publishing, ©2007 288 p. \$189.99
 Food scientists describe the microstructure of various dairy products, and explain the microscopic techniques used to examine such structure. Their topics include instrumental techniques for sample preparation, the microstructure of milk components, concentrated and dried milk products, fermented milks, natural cheeses and cheese analogues, frozen and dairy-based confectionery products, and the microscope in troubleshooting. The Society of Dairy Technology in Britain produces the series.

SF251 2007-060810 978-0-8412-3968-5
Flavor of dairy products.

Title main entry. Ed. by Keith R. Cadwallader et al. (ACS symposium series; 971)
American Chemical Society, ©2007 287 p. \$125.00
 From the August 2004 symposium *Chemistry and Flavor of Dairy Products* held in Philadelphia, 14 papers report the status of research into dairy flavor, and present updated information in instrumental analysis, biochemistry, processing, and shelf-life issues related to the flavor of dairy products. Among the topics are the influence of texture on aroma release and perception related to dairy products, proteolytic enzymes of lactic acid bacteria and their influence on bitterness in bacterial-ripened cheeses, and the flavor and flavor stability of skim and whole milk powders. Distributed in the US by Oxford University Press.

SF285 2007-921733 978-0-7216-0383-4
Equine podiatry.

Floyd, Andrea E. and Richard A. Mansmann.
Elsevier Saunders, ©2007 646 p. \$99.00
 In a reference for veterinarians, horse owners, and farriers, North American, Australian, British, and Irish specialists begin by setting out the anatomy and physiology and diagnostic evaluation of the equine foot. Then they look at several pathologic conditions, devoting a special section to laminitis. A final section presents farriery considerations, particularly around care for a horse's feet.

SF291 95-11430 978-0-8061-3884-8
International encyclopedia of horse breeds.

Hendricks, Bonnie L.
U. of Oklahoma Pr., ©2007 486 p. \$24.95 (pa)
 Approximately 400 entries make up this volume, an encyclopedia of horse breeds that includes foundation and extant breeds from around the world. Entries include origin and background, size, appearance, chief use, and rare or common status. Because information was obtained from authorities around the world, the volume contains new data not presented in other books. This paperback edition has an updated list of associations and government departments. Many b&w and color illustrations are included. Information on domestication, breeding, foaling, feeding, training, riding, grooming, and other aspects of handling has been excluded. Hendricks has bred and raised horses for many years and organized the American Buckskin Horse Registry and the International Buckskin Horse Registry.

SF375 978-0-643-09275-4
Running a small flock of sheep, 2d ed.

Hinton, David G.
Landlinks Press, ©2007 180 p. \$49.95 (pa)
 This handbook provides information needed for successfully managing a small flock of sheep for prime lamb, wool, or dual purposes. Written especially for small-scale sheep farmers or those considering a sheep farm for the first time, the book outlines breeds, tools, and procedures using a step-by-step approach, illustrated with b&w photos. This second edition includes a new chapter on sheep breeds and diseases, two glossaries, and a list of web sites. The author's affiliation is not stated. Landlinks Press is an imprint of CSIRO Publishing, which is distributed in the US by Antipodes Books & Beyond.

SF376 978-0-643-09276-1
Supplementary feeding of sheep and beef cattle, 2d ed.

Hinton, David G.
Landlinks Press, ©2007 91 p. \$31.50 (pa)
 This practical guide is designed for graziers to use in their day-to-day decision-making about livestock nutritional needs, feeding options, and health. Key topics covered will be particularly useful in drought situations, but also in seasonal pasture shortages, when the nutrient value of pastures is low. B&w photos and worksheets are included. Author information is not given. Landlinks Press is an imprint of CSIRO Publishing, which is distributed in the US by Antipodes Books & Beyond.

SF395 978-90-868601-8-0
Gaining the edge in pork and poultry production; enhancing efficiency, quality and safety.

XTitle main entry. Ed. by J.A. Taylor-Pickard and P. Spring.
Wageningen Academic Publishers, ©2007 283 p. \$113.00
 In this collection of 13 seminar-derived papers, international experts in the field of pig and poultry nutrition and production examine current trends within these industries, and ways to maximize competitiveness through advances in genetics and nutrition, while minimizing disease (including Asian bird flu) and environmental impact. With an eye to the British market, the final paper approaches new product development via a food-related lifestyle instrument to segment food markets instead of traditional demographics-based methods. The editors' professional affiliations are not given, but Taylor-Pickard is the co-editor of *Nutritional Approaches to Arresting the Decline in Fertility of Pigs and Poultry* (2006). Distributed in the US by Enfield Distribution Co.

SF396 2006-023239 978-1-84593-191-9
Nutrition and feeding of organic pigs.

Blair, Robert.
CABI Publishing, ©2007 322 p. \$130.00
 This handbook by Blair (land and food systems, U. of British Columbia, Canada) provides guidance for agricultural producers on nutrition and feeding practices that relate to international standards for certification of organic pigs. Eight chapters cover the aims and principles of organic pig production, elements of pig nutrition, approved ingredients for organic diets, diets for organic pig production, choosing the right breed and strain of pig, integrating feeding programs into organic production systems, and recommendations for the future.

SF427 2006-025800 978-0-8138-2913-5
Nutrition for veterinary technicians and nurses.

Wortinger, Ann.

Blackwell Publishing, ©2007 249 p. \$39.99 (pa)

The nutritional health of the workers are not Wortinger's (veterinary clinical pathology, Wayne State U.), but of the animals they care for. She provides the scientific background that is typically lacking in veterinary technician education, but is needed to take full advantage of the courses, seminars, and other educational opportunities provided by commercial food producers. Sections also discuss nutritional requirements and feeding management for dogs and cats.

SF487 2006-029850 978-0-7603-2828-6

How to raise chickens; everything you need to know.

Heinrichs, Christine.

Voyageur Press, ©2007 192 p. \$19.95 (pa)

Featuring color photographic illustrations on nearly every page, this practical guide covers what beginners need to know in order to establish and raise a small flock of chickens in the country or city. Experienced chicken breeder Heinrichs provides an overview of the various breed types and explains how to obtain stock and properly house and feed the birds. Other topics include (for example) egg incubation, legal issues, and avian influenza.

SF604 2006-049213 978-1-58326-072-2

Design it right; a pre-architect primer for planning your veterinary facility flow, 4th ed.

Catanzaro, Thomas E.

AAHA Press, ©2006 139 p. \$85.00 (pa)

The American Animal Hospital Association has published a thorough guide to building a new animal hospital that includes copious plans and designs. Chapters detail things to consider regarding budget, planning, materials, and tips for each room, including the lab, pharmacy treatment areas, dental area, and offices. The volume concludes with a group of profiles and questionnaires to help in preparing for the project. The volume is handily printed in a spiralbound, horizontal format (13.75x8.5") that lies flat when open.

SF761 978-3-8304-1069-0

Illustrated veterinary anatomical nomenclature, 2d ed.

Title main entry. Ed. by Oskar Schaller.

Enke Verlag, ©2007 614 p. \$129.95

Schaller presents the second edition of his 1992 reference work for teachers, researchers, veterinarians, and students. The text features some 6500 structures named in the World Association of Veterinary Anatomists' *Nomina Anatomica Veterinaria (N.A.V.)*. Each is depicted in b&w linear illustrations and defined in the text, to aid the user in understanding anatomy and clarifying its concepts. The arrangement of the text follows that of the N.A.V., and focuses on the gross anatomical structures of the cat, dog, pig, ox, sheep, goat, and horse. Specific revisions from the first to second edition are not stated. The editor and the six European and American contributors are all veterinary anatomists who are active in the International Committee on Veterinary Gross Anatomical Nomenclature. Distributed in the U.S. by Thieme.

SF769 2006-022478 978-1-4051-1101-0

Introduction to veterinary and comparative forensic medicine.

Cooper, John E. and Margaret E. Cooper.

Blackwell Publishing, ©2007 415 p. \$119.99

Cooper and Cooper, a specialist pathologist and lawyer respectively, take the term "forensic" seriously, because they take wildlife conservation, animal welfare, legal issues relating to animals and identification of live or dead species seriously. They give veterinarians, legal professionals and others practical tools and methods to determine if a crime has been committed that involves an animal in some way, how the evidence taken from that animal applies, and how to objectively represent that information in a legal setting. They concentrate on animal welfare and conservation as they describe clinical and field work, physical and laboratory examinations, collection of evidence, documentation, storage and presentation. They provide a wealth of resources and illustrations.

SF925 2006-030824 978-1-4051-3195-7

Animal physiotherapy; assessment, treatment and rehabilitation of animals.

Title main entry. Ed. by Catherine M. McGowan et al.

Blackwell Publishing, ©2007 258 p. \$69.99 (pa)

The three editors (all: animal studies, U. of Queensland, Australia) present this reference for students and practitioners of animal physiotherapy. Background, assessment methods, and treatments are discussed for physiological problems and performance concerns in canines and horses (addressed collectively with a few exceptions). Early chapters offer skills from applied animal behavior, nutrition, and biomechanics as well as comparative exercise physiology. These are followed by characterizations of problems such as lameness and neurological and muscular conditions; and finally therapy options including electro- and hydrotherapy, acupuncture, and manual therapy. The two concluding chapters separately address canine and equine rehabilitation for osteoarthritis, respiratory and cardiac problems, injury, and other conditions.

SF951 2006-031999 978-1-4051-5061-3

Equine injury, therapy and rehabilitation, 3d ed.

Bromiley, Mary W.

Blackwell Publishing, ©2007 218 p. \$39.99 (pa)

British chartered physiotherapist Bromiley updates her general guide for horse owners and professionals who treat and care for horses. She explains in simply language the interaction of a horse's body systems to one another and reliance on each other, the construction of the musculoskeletal system, the general effects of injury, and the repair processes of tissues following damage. Throughout, she emphasizes how horses are different from people. Earlier editions appeared in 1987 and 1993.

SF968 2006-034967 978-1-4051-3414-9

Diseases of sheep, 4th ed.

Title main entry. Ed. by I.D. Aitken.

Blackwell Publishing, ©2007 610 p. \$219.99

In this update of the 2000, 1991, and 1983 editions, Aitken (former director, Moredun Research Institute, Edinburgh) disseminates the work of international researchers on diseases afflicting sheep to producers, veterinarians, and the allied scientific community. After introductory chapters on *Ovis aries* (domesticated sheep) production and welfare from a UK perspective, chapters on specific diseases of the various bodily systems review the cause, clinical signs, pathology, diagnosis, epidemiology, and control and treatment. Other chapters treat regional problems from the Americas to Africa, and technical issues relating to flock health, therapeutic drugs and procedures, and necropsy. The volume features color plates of macroscopic and microscopic views of sheep diseases and plants that are poisonous to them, and tables of clinical reference values.

SF991 2006-013926 978-1-4051-3252-7

Differential diagnosis in small animal medicine.

Gough, Alex.

Blackwell Publishing, ©2007 464 p. \$59.99 (pa)

This reference compiles differential diagnosis information for veterinary practitioners and students. It contains differential diagnosis lists of major problems in small animal medicine, including common and uncommon conditions, and it is organized by signs relating to history, physical symptoms, radiography and ultrasonography, laboratory findings, electrodiagnostic testing, and diagnostic procedures and algorithms. Gough is associated with a referral and first opinion practice in Bristol, UK, where he sees referrals in small animal medicine and cardiology.

SF996 2006-033056 978-0-8138-1202-1

Flynn's parasites of laboratory animals, 2d ed.

Title main entry. Ed. by David G. Baker.

Blackwell Publishing, ©2007 813 p. \$149.99

Baker (director and professor, Division of Laboratory Animal Medicine, Louisiana State U. School of Veterinary Medicine) updates Flynn's 30-year-old reference documenting knowledge about the parasites of laboratory animals. It includes chapters on the biology of protozoa, trematodes and leeches, cestodes, nematodes and acanthocephalans, and arthropods. It describes the parasites of fishes, amphibians, reptiles, birds, rats and mice, hamsters, gerbils, guinea pigs, rabbits, ferrets, dogs, cats, swine, sheep and goats, and non-human primates. Information is provided on the parasites' morphology, hosts, life cycle, pathological effects, treatment and prevention, and public health considerations. Black and white drawings are included to aid in the identification of parasites.

Infectious diseases and pathology of reptiles; color atlas and text.

Title main entry. Ed. by Elliott Jacobson.

CRC Press, ©2007

716 p.

\$199.95

Jacobson (U. of Florida College of Veterinary Medicine) presents a color atlas on the infectious diseases and pathologies of reptiles. Some 1400 hundred images accompany the 13 contributed chapters that describe the anatomy and histology of reptiles, review the immunology of reptiles, describe reptiles' circulating inflammatory cells that serve as a defense against pathogens, discuss the determination of causes of reptile mortality, explain different host responses to pathogens, explore techniques of electron microscopy for identifying pathogens, introduce molecular approaches to isolating reptile pathogens, and explain the use of serological assays for determining the presence of pathogen-specific antibodies. Additionally, specific viral, bacterial, fungal, and parasitic diseases are reviewed and methods for isolating viruses, bacteria, and fungi are discussed.

SH35

978-90-868601-3-5

Fishponds in farming systems.

Title main entry. Ed. by A. J. van der Zijpp et al.

Wageningen Academic Publishers, ©2007

311 p.

\$73.00

Arguing that sustainability of fish culture development in ponds in resource-poor areas requires alternatives to the specialized, intensive input methods practiced in the West, van der Zijpp (animal production systems group) and colleagues at Wageningen U., The Netherlands, et al., present case studies of small-scale integrated aquaculture-agriculture approaches entailing decentralized community participation. Studies from Bangladesh, Thailand, and Vietnam on low-input rice field-based fish production review empirical data on nutrient recycling through pond-dyke systems widely used in Asia, and such systems' impact on local employment opportunities and resource sustainability. Distributed in the US by Enfield Dist. Co.

SH134

1-888807-17-2

Aquaculture and ecosystems; an integrated coastal and ocean management approach.

Title main entry. Ed. by James P. McVey et al.

World Aquaculture Society, ©2006

240 p.

\$80.00 (pa)

Using ecological principles to mitigate the environmental damage caused by aquaculture is discussed in 11 papers revised from presentations at a workshop for which no date or place is identified. Most present scenarios for countries in Asia and North America with briefer consideration of other countries. Other topics include the role of aquaculture in integrated coastal management, management principles for an ecosystem-based approach to implementation, and considerations for coastal managers. There is no index.

SH156

2006-024065

1-84593-199-8

Dietary supplements for the health and quality of cultured fish.

Title main entry. Ed. by Heisuke Nakagawa et al.

CABI Publishing, ©2007

244 p.

\$140.00

Aquaculture has become a valuable worldwide industry that has proven to be both sustainable and profitable when managed appropriately. One of the most important tasks in managing a successful aquaculture facility is to ensure the fish receive all the nutrients they need to thrive in an artificial environment. Most facilities use dietary supplements, and more are finding that non-nutritive supplements are also extremely important to health and quality. This covers the evaluation of quality in cultured fish and fish health assessment, essential nutrients (including vitamins, amino acids, peptides, lipids, and minerals), natural substances such as microorganisms and plants, and upcoming strategies in nutrigenomics and food safety.

SH327

2007-932773

978-1-888569-89-6

Status, distribution, and conservation of native freshwater fishes of Western North America; proceedings.

American Fisheries Society Symposium (2004: Salt Lake City, UT) Ed.

by Mark J. Brouder and Julie A. Scheurer.

American Fisheries Society, ©2007

207 p.

\$69.00 (pa)

The western US has become the lifestyle target of millions, most of whom bring with them their automobiles and hunger for real estate. The consequence has been the development of large tracts of land and waterways once belonging to native freshwater fish. This is particularly true of non-game species or those without economic value that do not receive protection from government. Here researchers address the concerns of these species in Wyoming, Colorado, Utah, new Mexico, California, Arizona, Oregon, Idaho, Hawaii, British Columbia and Sonora, with reports on the status of the humpback chub, the roundtail chub, June suckers, leatherside chub, desert redband trout, and the Oregon chub. Other papers address the Columbia River fishes of the Lewis and Clark expedition, a look at the bonytail of Colorado and the Pacific lamprey in Red River Idaho, and the conservation of such species as the Bull Trout in Washington.

SH329

978-90-868603-7-1

Contracting for sustainability; an analysis of the Lake Victory-EU Nile perch chain.

Kambewa, Emma Verah.

Wageningen Academic Publishers, ©2007

176 p.

\$39.00 (pa)

Sustainable development depends upon the linkage of societal, environmental, and economic impacts. In this published version of her 2007 PhD thesis, Kambewa (marketing and consumer behavior group, Wageningen U., The Netherlands) presents a case study of organizing global marketing channels so that small-scale primary producers and resources from developing economies can profitably and sustainably be integrated into them. From an empirical analysis of the factors affecting the contract preferences of East African fisherman and middlemen, she draws policy implications for sustainable fisheries and recommendations for further research. Distributed in the US by Enfield Dist. Co.

SH348

2007-921752

978-1-888569-88-9

Sockeye salmon evolution, ecology, and management.

Title main entry. Ed. by Carol Ann Woody.

American Fisheries Society, ©2007

129 p.

\$60.00 (pa)

This collection of articles and photographs gives managers a good idea of recent research into what the sockeye salmon is and does, covering such topics as the vulnerability and value of sockeye salmon ecotypes, their homing ability, using new technologies to monitor reproduction, DNA and a founder event in the Lake Clark sockeye salmon, marine-derived nutrients, the exploitation of large prey, dynamic lake spawning migrations by females, variability of sockeye salmon residence, expression profiling using cDNA microarray technology, learning from stable isotopic records of native otolith hatcheries, the amount of data needed to manage sockeye salmon and estimating salmon "escapement."

TECHNOLOGY (GENERAL)

T10

2005-027648

0-8247-2964-1

Using the engineering literature.

Title main entry. Ed. by Bonnie A. Osif.

Routledge, ©2006

614 p.

\$215.00

Osif (Engineering Reference and Instruction Librarian, Pennsylvania State U.) has prepared this reference to guide readers to engineering information resources with the goal of avoiding information overkill by pointing to good resources in a wide variety of formats that address most needs. The 19 contributed chapters, written by "front-line" librarians, cover resources in general engineering, aeronautical and aerospace engineering, architectural engineering, bioengineering, chemical engineering, civil engineering, computer engineering, electrical and electronics engineering, engineering education, environmental engineering, history of engineering, industrial and manufacturing engineering, materials science and engineering, mechanical engineering, mining engineering, nuclear engineering, petroleum engineering, and transportation engineering.

T15 2006-026085 978-0-8018-8586-0

Ingenium; five machines that changed the world.

Denny, Mark.

Johns Hopkins U. Press, ©2007

176 p. \$25.00

Denny is a physicist who developed radar and sonar systems until he retired to Canada's west coast, but the machines he applauds here are not as complex as those he worked on. They are the bow and arrow, water and wind mills, counterpoise siege engines, pendulum clock anchor escapement, and centrifuge governor (to keep a motor from turning too fast). He explains the need that the inventions addressed, the creation and development process, how the thing works, some of the figures involved, and the impact both at the time and later in history.

T55 2006-101616 978-0-86587-169-4

Applied statistics in occupational safety and health, 2d ed.

Janicak, Christopher A.

Government Institutes Inc., ©2007

183 p. \$65.00 (pa)

Janicak (safety, Indiana U. of Pennsylvania) provides safety professionals with basic statistical and data analysis techniques they can use to address some of the problems that they will encounter on a daily basis. He covers the whole process from research design through collecting and analyzing data to reaching conclusions and presenting findings. Review questions end each chapter, with solutions to most in the back matter. The date of the first edition is not mentioned.

T55 2007-001818 978-0-86587-155-7

Changing safety's paradigms.

McKinnon, Ron C.

Government Institutes Inc., ©2007

212 p. \$79.00 (pa)

Industrial safety, America-style, may be its own worst enemy, claims consultant McKinnon. He is especially concerned about how American workplace safety practices translate under globalization, and proves his point by showing how 20 safety paradigms have already turned out to be dangerous myths in the US, let alone around the world. What is startling here is McKinnon's evidence that such maxims we have repeated like mantras for generations such as "safety is first" and "no blood, no foul" can be killers and in fact injure or kill over four million people each year in the US. As he works through the safety paradigms we have understood to be true and actually practiced, we come to understand that safety and security are not the same thing, that injuries measure safety performance, and that discipline does not make people work safely. He readily supplies truly safe substitutes.

T56 2007-014367 978-0-13-233305-4

Project management success with CMMI; seven CMMI process areas.

Persse, James.

Prentice Hall, ©2007

321 p. \$44.99

For project and process managers, Persse describes how to apply the Capability Maturity Model Integration (CMMI-DEV version 1.2) to projects, programs, or processes for successful project management in technology development shops. He details the implementation and customization of the seven process areas of CMMI Level 2, taking a practical approach to business and operational needs of project management and comparing them against the recommendations of CMMI. In addition, the ways and methods of realizing the recommendations in an organization are outlined. The seven process areas—project planning; monitoring and control; requirements, configuration, and supplier agreement management; measurement and analysis; and process and product quality assurance—are also related to the knowledge areas and process groups of the Project Management Institute's Project Management Body of Knowledge. Persse is an SEI-authorized CMMI instructor and appraiser. He specializes in helping Fortune 500 companies select, design, and implement process improvement programs for project management, systems engineering, and software engineering.

T58 2007-925756 978-0-7695-2841-0

Computer and information science/ e-activity; proceedings.

Int'l Conference on Computer and Information Science (6th) Workshop on E-Activity (1st: 2007: Melbourne, Australia) Ed. by Roger Lee et.

Computer Society Press, ©2007

1145 p. \$239.00 (pa)

A July 2007 conference brought together researchers, scientists, engineers, industry practitioners, and students to share experiences and ideas in all aspects of computer and information science. Papers from the conference are presented here, grouped in sections on topics such as computer architecture and VLSI, web engineering and applications, image processing and pattern recognition, mobile/wireless computing, and software and information engineering. Other subjects covered include artificial intelligence and neural networks, image and speech processing, intelligent agent technology, data mining and warehousing, and communication systems and wireless networks. Also covered are parallel and distributed computing, middleware architecture, economic and financial systems, e-commerce, visual and multimedia computing, programming languages, healthcare engineering, and technology education. There is no subject index.

T58 2006-030015 978-1-59904-385-2

Dictionary of information science and technology; 2v.

Title main entry. Ed. by Mehdi Khosrow-Pour.

Idea Group Publishing, ©2007

999 p. \$495.00

This reference contains an A-Z listing of the terms, gadgets, science, and systems of this ubiquitous force in modern life. Maintaining a distinction between dictionary and encyclopedia, entries are not included for people nor companies, but only for computer technology. Each entry contains a brief description with a bibliographic citation that refers to the full bibliography found at the end of both volumes. Reflecting the dynamic nature of the field, some terms have multiple definitions, both because they vary with the source of information used by the entry's author and as an indication of the variation in meaning terms can have in different practical or theoretical contexts. (When multiple definitions occur, the bibliographic source of each is cited). As it is a dictionary, there is no index.

T58 2007-007278 978-1-59904-114-8

Information systems and technology education; from the university to the workplace.

Title main entry. Ed. by Glenn R. Lowry and Rodney L. Turner.

Information Science Reference, ©2007

424 p. \$165.00

The straightest lines in the world can be drawn from schools of higher learning to corporate cubicle farms. Students and research ply those lines, and the institutions pinning both ends are well aware of the potential risks and benefits of losing track of the other end. Lowry (management information systems, United Emirates U.) and Turner (information systems, Victoria U.) and their contributors have gathered data beneficial to both as they describe their dynamic structural model of the education and skills (and gender) necessary to have successful information (IS) careers, the role of diversity in global enterprise, academics' core competencies, IS in business, global software in the local classroom, attracting students to IS, aligning curriculum with industrial needs, professionalism and ethics, group learning, university-corporate partnerships, collaboration, systematic teaching of IS courses, and creating IS students with business skills and creating business students with IS skills.

T58 2006-027715 978-1-59904-054-7

Reference modeling for business systems analysis.

Title main entry. Ed. by Peter Fettke and Peter Loos.

Idea Group Publishing, ©2007

389 p. \$94.95

A group of international academics provides a broad overview of the use of reference models in the analysis of business systems. Several of the 16 peer-reviewed contributions discuss the process of developing and evaluating reference models. Others describe specialized reference models for certain types of businesses (i.e., industrial enterprises, savings banks, and e-businesses). The editors are affiliated with the German Research Center for Artificial Intelligence (DFKI).

Smart (enough) systems; how to deliver competitive advantage by automating hidden in your business.

Taylor, James.

Prentice Hall, ©2007

404 p. \$44.99 (pa)

This book details how organizations can deliver information systems smart enough to cope with the modern world, with a focus on decision making and automating and managing those decisions. It is aimed at managers and IT professionals, with initial chapters on the need and concepts behind smart enough systems, written for business readers, and later chapters on techniques, technologies, and implementation, for readers who are more technically-oriented. Understanding of the technologies described is not required. The authors discuss enterprise decision management, including data analytics, business rules, and adaptive control, readiness assessment for building systems, and the phases of development. Taylor works at a corporation where he has been developing the themes of enterprise decision management, and the book is derived from the corporation's experience developing these systems and its customers' experiences in using them. Raden works at a firm that offers research and analysis services to technology providers. The book lacks a bibliography.

T62 2007-927958 978-0-7695-2916-5

Advanced learning technologies; proceedings.

International Conference on Advanced Learning Technologies (7th: 2007: Niigata, Japan) Ed. by J. Michael Spector et al.

Computer Society Press, ©2007 955 p. \$308.00 (pa)

ICALT 2007 was held July 2007, in Niigata, Japan, attended by an international group of experts in computer technology and in student learning. The titles of the three keynote presentations identify some key themes: 1) Torn between Technology Lust and Teaching Humans; 2) Does Elearning have to be so Awful? (Time to Mashup or Shutup); and 3) New Educational Technology Models for Social and Personal Computing. Ninety-six papers, 98 short presentations, and 53 poster presentations address the interests of the technically-oriented folk as well as those who teach and must come to terms with the technological environment—whether the tools it affords are useful or simply dazzling. The scope is broad. A sampling of topics: music programming for learning object-oriented concepts, applying hierarchical curriculum structure graphing for remedial learning, online learning strategies measurement, comparison of images versus video, a formal competency model for health care, e-learning among teachers, engineering heterogeneous distributed learning environments using Tuple spaces. Panels and workshops discuss pedagogy and curricula, online distributed classrooms, technologies for disabled and non-disabled people, machine-mediated multimodal communication, and educational data mining. Authors indexed, but with such a variety of topics, a keyword index would have been useful.

T174 2007-014262 978-0-13-244643-3

Nanoconvergence; the unity of nanoscience, biotechnology, information technology, and cognitive science.

Bainbridge, William Sims.

Prentice Hall, ©2007

250 p. \$26.99 (pa)

Bainbridge (codirector of Human-Centered Computing at the National Science Foundation) argues that nanotechnology is rapidly converging with biotechnology, information technology, and (more controversially) cognitive science in a unification that promises “to put the behavioral and social sciences for the first time on a rigorous foundation” and “will be based on material unity at the nanoscale and technology integration from that scale.” Writing for a general audience, Bainbridge provides an overview of where he believes these technological developments are taking society, up to and including the emergence of a convergent science of democratic institutions and the possibility of an interplanetary society.

T385 978-0-321-49200-5

Adobe Illustrator CS3. (CD-ROM included)

Title main entry. (Classroom in a book)

Adobe Press, ©2007

458 p. \$54.99 (pa)

This workbook reflects the needs of both amateur and professional designers as it explains both graphics theories and software manipulation procedures from the “getting started” stage to the subtleties of producing work for publication in print or online. Loaded with accessible illustrations and projects, this covers everything from loading the product and the contents of the CD-ROM bound in the book to learning new features for this version, loading photo images, accessing the work area (including using the trace function), selecting, aligning, creating shapes, transforming objects, drawing, coloring and painting, working with type, blending shapes and colors and manipulating layers, brushing, applying effects, and using more advanced features such as appearance attributes, graphic styles, symbols, combining images from other software and dealing with printing like a professional.

T385 978-0-321-49202-9

Adobe Photoshop CS3; classroom in a book, the official training workbook from Adobe Systems. (CD-ROM included)

Title main entry. (Classroom in a book series)

Adobe Press, ©2007

478 p. \$54.99 (pa)

Developed with the support of Adobe Systems product experts, this workbook offers 14 self-paced lessons on fundamental and advanced features of this leading digital imaging software. New features of Adobe Photoshop CS3 covered include Smart Filters, Zoomify, a new Quick Selection tool, a new interface common to the Creative Suite 3 family of products, enhancements to Adobe Bridge and the Camera Raw format, and the Adobe Lightroom toolbox. Chapters include tips and review questions. The bundled CD-ROM for Windows and Mac OS includes lesson files and tutorial movies.

T385 2007-013349 0-7897-3691-8

Adobe Photoshop CS3 on demand.

Johnson, Steve.

Que Publishing, ©2007

569 p. \$39.99 (pa)

Highlighting what is new in Photoshop CS3, Johnson, who is with a software training company and has many computer books to his credit, proceeds from getting started with this leading digital imaging software to more advanced tasks. Chapters include step-by-step instructions, real world examples, and a presentation of tasks on no more than two facing pages to allow focusing on a task without having to turn pages. Ten workshop projects apply the book's lessons. Information is given for graphic designers on the Adobe Certified Expert Program. A trial subscription to an online resources is offered.

T385 2007-012287 978-1-58450-531-0

Advanced PhotoShop CS3 trickery & FX. (CD-ROM included)

Burns, Stephen.

Charles River Media, ©2007

366 p. \$49.99 (pa)

Burns, a corporate instructor in digital art and design, takes readers beyond the basics in this book/CD-ROM package for both Mac and PC Photoshop users. He gives step-by-step directions for projects that use special effects to transform ordinary photos into digital creations, and also provides real-world projects to illustrate practical uses of Photoshop's tools. Color-photos and screenshots illustrate techniques on every page. The companion CD-ROM contains all of the book's images, files needed for the book's projects, and software demos.

T385 2007-006230 978-1-58450-522-8

The Cinema 4D R10 handbook. (CD-ROM included)

Call, Anson.

Charles River Media, ©2007

400 p. \$49.99 (pa)

Cinema 4D is a high end commercial 3D graphics application from MAXON. This guide for beginners uses a project based tutorial approach as it teaches them how to use C4D's many tools and functions. Contained on the CD-ROM are full color images from the book as well as all of the files necessary for completing the tutorials plus demo versions of C4D for Macintosh and Windows. Call teaches 3D modeling, animation, and rendering at Iowa State U.

T385 2007-930571 978-0-7695-2928-8

Computer graphics, imaging and visualization; techniques and applications; proceedings.

Conference on Computer Graphics, Imaging and Visualisation (2007: Bangkok, Thailand) Ed. by Ebad Banissi et al.

Computer Society Press, ©2007

537 p. \$239.00 (pa)

About 100 papers from an August 2007 conference describe advances in computer graphics, imaging, and visualization. Most of the papers fall within the themes of rendering, digital art and multimedia, augmented and virtual reality, and computer-aided geometric design and graphics, as well as forensic digital imaging, image/video analysis for pattern recognition, intelligent recognition techniques and applications, data and information visualization, bio-medical visualization, and spatial/geographic data visualization. Some specific subjects presented include simulation of Chinese painting, flight simulation of butterflies and hypothetical morphology, and bringing courtrooms to life with virtual reconstructions. Other topics are vision-based detection of guitar players' fingertips without markers, curve reconstruction in the presence of noise, shape recovery using HDR images, and cloning of facial expressions using spatial information. There is no subject index.

T385 2007-016838 978-1-58450-536-5

Complete Photoshop CS3 for digital photographers. (CD-ROM included)

Smith, Colin and Tim Cooper.
Charles River Media, ©2007

442 p. \$44.99 (pa)

This guide explains the features of Photoshop CS3 for amateur and professional digital photographers. The authors cover file formats, resolution, USI, and other shooting considerations, then move on to Adobe Bridge and a discussion of photographic files. Subsequent chapters describe cropping, tonal and color correction and enhancement, selections and masks, sharpening and noise reduction, sizing and printing, retouching, frame and color effects, and combining images for collages and animations. The CD contains image files for the tutorials, nine video clips, and Nik, Alien Skin, and AutoFX software. Smith has written many books on Photoshop and is a regular columnist in *Photoshop User* magazine. Cooper is a photographer and teaches at the Rocky Mountain School of Photography.

T385 2007-012602 0-321-49882-8

OpenGL superbible; comprehensive tutorial and reference, 4th ed.

Wright, Richard S. et al.
Addison-Wesley, ©2007

1205 p. \$59.99 (pa)

This book is both a reference to the entire OpenGL API and a tutorial on using the API to create 3D visualizations, games, and other graphics. Starting with basic 3D terminology and concepts, the book covers basic primitive assembly, transformations, lighting, texturing, and the OpenGL Shading Language. The tutorial is accessible to both beginning programmers and to experienced programmers who are new to OpenGL. For this fourth edition, the reference material has been reorganized, with an appendix containing the complete OpenGL API reference for the GL function. The Mac OS X and Linux chapters have been rewritten, and there are new chapters on the latest OpenGL ES specification, and on advanced OpenGL buffer usage. This edition also features a color section of images demonstrating results of various techniques. Wright is a multimedia simulation software developer.

T385 978-0-321-50325-1

The Painter X Wow! book. (CD-ROM included)

Threinen-Pendarvis, Cher.
Peachpit Press, Inc., ©2007

415 p. \$59.99 (pa)

Fine artist and digital designer Threinen-Pendarvis leads readers through the components of the Corel Painter X digital art software. Attractively illustrated, the twelve chapters cover techniques for using color, layers, special effects, selections, shapes, and masks; painting with and building brushes; applying type; enhancing photos, montage, and collage; using Painter with Photoshop; animating and filmmaking; and printing options. The accompanying CD-ROM contains more ideas for artfully employing Painter X.

T385 978-0-321-51429-5

Photoshop CS3; up to speed, the only book focused exclusively on the new features in Photoshop CS3.

Willmore, Ben.

Peachpit Press, Inc., ©2007

153 p. \$29.99 (pa)

In a guide geared to fellow graphic designers and photographers, Willmore (*Abode Photoshop Studio Techniques*) covers the major image management bells and whistles of this Photoshop upgrade: e.g., the revamped Bridge interface and Camera Raw. Acknowledging that some new features make for a steep, but worthwhile, learning curve, he provides "where's my stuff?" navigation tips in chapters mainly featuring his images.

T385 2007-014393 978-0-672-32935-7

Sams teach yourself Adobe Photoshop CS3 in 24 hours, 4th ed.

Rose, Carla and Kate Binder.
Sams, ©2007

536 p. \$29.99 (pa)

Featuring 24 lessons of approximately one hour in length, this volume helps beginning users to quickly become proficient with Adobe Photoshop CS3. No previous image editing experience is required. Some of the skills covered include adjusting color, painting with brushes, using layers, applying filters, adding text, and repairing photos. The final section deals with printing, publishing, and uploading images to the Web. B&w illustrations accompany the text throughout. A section of color plates is found in the middle of the volume.

T385 2007-920824 978-0-7695-2815-1

Shape modeling and applications; proceedings.

IEEE International Conference on Shape Modeling and Applications

(2007: Lyon, France)

Computer Society Press, ©2007

301 p. \$208.00 (pa)

Twenty-three full papers and four short papers from a June 2007 conference are presented here, focusing on shape matching and retrieval, modeling with implicit surfaces, and various issues of shape analysis, representation, and processing. Other subjects examined are animation and modeling human characters, shape compression and simplification, shape acquisition and reconstruction, and meshing. Some specific topics explored include certified meshing of families of isosurfaces, automatic generation of bas-reliefs from 3D shapes, deforming surface simplification based on dynamic geometry sampling, and topological correction of hypertextured implicit surfaces for ray casting. Other topics are skeleton-based hierarchical shape segmentation, hierarchical spatial hashing for real-time collision detection, robust smooth feature extraction from point clouds, and texture atlas generation for inconsistent meshes and point sets. There is no subject index.

ENGINEERING (GENERAL, CIVIL)

TA1 978-0-7844-0868-1

Transactions of the American Society of Civil Engineers; v.171; 2006.

Title main entry. (Series: title)

Am. Society of Civil Engineers, ©2007

1246 p. \$350.00

This volume from the American Society of Civil Engineers (ASCE) compiles abstracts for all articles published in ASCE journals in 2006. The listings are grouped by journal (of which there are forty) and include entry numbers, author affiliations, and bibliographic information. Special publications and manuals and reports are listed separately. A subject heading index and author index are provided.

TA9 978-3-527-31220-7

Rules of thumb in engineering practice.

Woods, Donald R.
Wiley-VCH, ©2007

458 p. \$115.00

Woods (emeritus chemical engineering, McMasters U., Canada) explains how engineers can use rough guesses based on experience to obtain approximations that will allow them to decide whether more precise calculation is necessary. Far from leading to a neglect of fundamentals, he says, it keeps engineers acutely aware of orders of magnitude and common sense interpretations. Using his own field as an example, he discusses the basics of rules of thumb, then looks at applying them in transport, homogeneous and heterogeneous separations, reactors, size reduction and enlargement, and other areas.

TA166 978-1-84564-068-2

Safety and security engineering II; proceedings.

Int'l Conference on Safety and Security Engineering (2d: 2007: Malta)

Ed. by M. Guarascio et al. (WIT transactions on the built environment; v.94)

WIT Press, ©2007

560 p. \$389.00

A 2007 conference highlighted recent developments in theoretical and practical aspects of safety and security engineering. Papers from the conference, presented here, reflect the field's multidisciplinary and systemic approach. Major themes are risk analysis and management, modeling and theoretical studies, fire prevention and protection, and environmental protection, as well as industrial cases, transportation problems, public safety, emergency and disaster prevention and management, and terrorism protection. Some specific subjects examined include risk acceptability criteria, heavy metals concentration in vegetables grown in Iraq, search and rescue robots, road tunnel safety in Italy, an open software platform for preventive security in crowded public places, and agent-based simulation of human movements during emergency evacuations of facilities. The editor is affiliated with the University of Rome La Sapienza, Italy. There is no subject index. The US office of WIT Press is Computational Mechanics.

- TA174 978-0-7695-2834-2
Rapid system prototyping; proceedings.
 Workshop on Rapid System Prototyping (18th: 2007: Porto Alegre, RS, Brazil)
 Computer Society Press, ©2007 209 p. \$193.00 (pa)
 Presented here are 30 papers from the 18th IEEE/IFIP International Workshop on Rapid System Prototyping, which was held in May of 2007 in Porto Alegre, Rio Grande do Sul, Brazil. Sessions cover co-design, HW performance, formal specification, prototyping and development methodologies and tools, testing, applications, FPGA and SW algorithms, and nine short papers on FPGA and applications, HW performance, co-design and tools, and formal specification. Contributors are computer science researchers and practitioners in industry and academia from different parts of the world. Only an author index is provided.
- TA335 2006-027728 978-1-59904-042-4
Kernel methods in bioengineering, signal and image processing.
 Camps-Valls, Gustavo et al.
 Idea Group Publishing, ©2007 415 p. \$99.95
 Among the problems associated with neural network applications are difficulties in dealing with high input-space dimensionality, lack of interpretation of the neural-network structure and functionality, and the local minima phenomenon. According to Camps-Valls (U. de València, Spain), Rojo-Álvarez (U. Rey Juan Carlos, Spain), and Martínez-Ramón (U. Carlos III de Madrid, Spain), these problems can often be addressed by the introduction of so-called kernel methods, which “are emerging and innovative techniques that can be simply viewed as a first step that consists of mapping the data from the original input space to a *kernel* feature space of higher dimensionality through a nonlinear function, and then a second step of solving a *linear* problem in that space.” In this volume they present 15 chapters that describe applications of kernel methods in the application realms of bioengineering, signal processing and communications, and image processing. Specific applications include computational biology, text categorization, time-series prediction, interpolation, system identification, speech recognition, image de-noising, image coding, and image classification.
- TA340 2007-019912 978-0-470-14781-8
Parameter estimation for scientists and engineers.
 Van den Bos, Adriaan.
 Wiley-Interscience, ©2007 273 p. \$95.00
 Van den Bos (applied physics, Delft U. of Technology, The Netherlands) presents a volume for applied scientists, engineers, and students on the most important aspects of estimating parameters of expectation models of statistical observations. He aims to show that statistical parameter estimation has more to offer than least squares estimation alone. He also describes distributions and their characteristics, Fisher information and the Crámer-Rao lower bound, the maximum likelihood method, model hypothesis testing, and numerical methods for parameter estimation problems. An elementary knowledge of statistics is assumed. Examples, problems and solutions, and figures are included.
- TA347 978-1-84564-076-7
Boundary elements and other mesh reduction methods XXIX; proceedings.
 Int'l conference on Boundary Elements and other Mesh Reduction Methods (29th: The New Forest, UK) Ed. by C.A. Brebbia et al. (WIT transactions on modelling and simulation; v.44)
 WIT Press, ©2007 334 p. \$225.00
 These proceedings include the full range of papers presented describing current research and applications. Topics include meshless techniques, including stress analysis by local integral equations, advanced formulations, including a new boundary element analysis of acoustic problems with the fictitious eigenvalue issue, the dual reciprocity methods, including an evaluation of strong shear thinning non-Newtonian fluid flow using a single-domain dual reciprocity/boundary element methods, computational issues such as inmost singularities and appropriate quadrature rules in boundary element methods, fluid mechanics applications, including a meshless analysis of flow and concentration in a water reservoir, heat and mass transfer, as in the use of a boundary element methods for double diffusive natural convection, wave propagation, including a methods of obtaining a sparse matrix from the volume integral equation for elastic wave propagation, damage mechanics and fracture, electrical engineering and electromagnetics and inverse problems. The US office of WIT Press is Computational Mechanics.
- TA347 978-1-84564-100-9
Domain decomposition techniques for boundary elements; application to fluid flow.
 Popov, V. et al. (Advances in boundary elements; v.21)
 WIT Press, ©2007 298 p. \$195.00
 These first steps in using the boundary element method (BEM) in conjunction with a large number of sub-domains result in meshes that resemble those produced by the finite element method (FEM) with increased efficiency. The editors and their contributors work first from diffusion-convection problems with numerical examples, then move to viscous compressible fluid dynamics and an appraisal of using multi-domain dual reciprocity methods (DRMs) and BEMs for the numerical simulation of non-isothermal flow problems. They model flow and solute transport in fractured porous media using the DRM multidomain technique, present a parallel domain decomposition BEM approach for large-scale transient and steady nonlinear heat conduction, develop a computational implementation for three-dimensional problems and conclude with iterative schemes for the solution of systems of equations arising from the DRM in multidomains. The US office of WIT Press is Computational Mechanics.
- TA347 2006-038735 978-0-471-73314-0
DPSPM for modeling engineering problems.
 Title main entry. Ed. by Dominique Placko and Tribikram Kundu.
 Wiley-Interscience, ©2007 372 p. \$125.00
 Distributed point source method (DPSPM) is a mesh-free numerical/semi-analytical technique that Placko (Ecole Normale Supérieure de Cachan, France) and Kundu (U. of Arizona) have developed to solve a number of engineering problems in ultrasonic, magnetic, electrostatic, electromagnetic, and other contexts. In chapters co-written with colleagues, they explain the basic theory of the method and solve some problems.
- TA347 978-0-470-03580-1
A first course in finite elements. (CD-ROM included)
 Fish, Jacob and Ted Belytschko.
 John Wiley & Sons, ©2007 319 p. \$65.00 (pa)
 For undergraduate and graduate students in science and engineering, Fish (Rensselaer Polytechnic Institute) and Belytschko (Northwestern U.) describe the formulation and application of the finite element method. The book is introductory and self-contained and only some math and physics knowledge is necessary, with some topics reviewed in chapters. It is generic rather than application specific, serving as a general purpose numerical procedure for solving engineering problems governed by partial differential equations. It also integrates finite element theory, finite element code development and the application of commercial software package. It covers finite elements for one-dimensional problems, scalar field problems in two dimensions, and vector field problems in two dimensions and beams. The CD contains the ABAQUS/Standard, ABAQUS/Explicit, and ABAQUS/CAE software.
- TA355 2006-100169 978-1-4200-5321-0
Vibration damping, control, and design.
 Title main entry. Ed. by Clarence W. de Silva. (Mechanical engineering series)
 CRC / Taylor & Francis, ©2007 634 p. \$119.95
 With case studies and examples, the contributors of these articles work systematically from theory to applications so practitioners as well as students can produce mechanical engineering projects with better product quality and more economical operation. The contributors include summaries for each topic so readers can quickly find what they need to know about design for vibration damping and control, damping theory, experimental techniques, structure and equipment isolation, structural dynamic modification and sensitivity analysis, fluid-induced vibration, instrumentation, and statistical energy analysis. Articles on acoustics cover sources of noise, sound levels and decibels, hearing and psychological effects, noise control criteria and regulations (including design of acoustic absorption) and building in reactive mufflers. Some of the applications that deserve a chapter all to themselves include vibration in rotating machinery, regenerative chatter in machine tools, and helicopter rotor tuning. The illustrations are very clear and helpful.

TA355 2006-100139 978-1-4200-5319-7

Vibration monitoring, testing, and instrumentation.

Title main entry. Ed. by Clarence W. de Silva. (Mechanical engineering series)

CRC / Taylor & Francis, ©2007 696 p. \$119.95

The chapters in this reference, which were drawn from *Vibration and Shock Handbook*, cover the tools, techniques, and data for monitoring, testing, and instrumentation of vibration in mechanical and structural systems and environments. De Silva (mechanical engineering, U. of British Columbia, Canada) brings together 14 chapters by scholars and professionals from around the world, with engineers, technicians, designers, researchers, educators, and students in mind, with equal emphasis on theory and practical application. Shock and vibration methodologies for civil and mechanical engineering systems are included, as are instrumentation and testing methods, including sensors, exciters, signal acquisition, conditioning, and recording, and LabVIEW tools for virtual instrumentation. Other topics covered are testing and design for seismic vibration, related regulatory issues, and human response.

TA357 978-0-470-03558-0

Hydrodynamics of free surface flows; modelling with the finite element method.

Hervouet, Jean-Michel.

John Wiley & Sons, ©2007 341 p. \$130.00

For users of hydro-informatics systems, in addition to students and researchers, Hervouet describes the technical advances of the Telemac system. He discusses variants of the Navier-Stokes and the Saint-Venant equations, the tracer and turbulence equations; the finite element method; Boussinesq equations; and other methods adapted to account for the hyperbolic nature of the transport equations. Subsequent chapters deal with computerized implementation of the finite element method using element-by-element and edge-based storage; parallelism with distributed memory computers; parameter estimation; and applications, including the calculation of the dam-break wave of the Malpasset dam. Hervouet, the main developer of the Telemac project, is associated with Electricité de France.

TA357 2006-039202 978-0-8493-0759-1

Instrumentation, measurements, and experiments in fluids.

Rathakrishnan, E.

CRC / Taylor & Francis, ©2007 492 p. \$99.95

Rathakrishnan (aerospace engineering, Indian Institute of Technology Kanpur, India) developed this text to be useful in courses on experimental fluid science at both the introductory undergraduate level and the advanced graduate level. The text covers the working principles associated with measuring instruments and instruments used for experiments with fluid flows. Chapters cover the objectives of experimental study, fundamentals of fluid mechanics, wind tunnels, flow visualization, hot-wire anemometry, analogue methods, pressure-measurement techniques, velocity measurements, temperature measurements, measurement of wall shear stress, mass and volume flow measurements, special flows, data acquisition and processing, and uncertainty analysis.

TA357 978-1-59693-134-3

Pressure-driven microfluids.

Tesar, Václav. (Artech House integrated microsystems series)

Artech House, ©2007 410 p. \$119.00

Tesar (thermomechanics, Academy of Sciences of the Czech Republic) gives students and professionals an understanding of the behavior of fluids in microchannels. He describes the use for such devices (such as no moving parts) and concepts (such as flow characterization parameters) before he jumps into the basics of driving fluid by pressure and simple components and devices using such liquids. He covers valves and sophisticated devices, conversion devices, and applications such as filling a vessel or keeping a constant liquid level, setting up sensors for intelligent cars or replacing the combustion engine entirely, conduction biological tests or creating guard flows, developing artificial noses and tongues, handling food and waste, interfacing with the nervous system and a wide range of medical and anti-terrorism applications ranging from health monitoring to fluidic decontamination.

TA401 2006-287771 0-87849-421-9

Advances in materials manufacturing science and technology II; proceedings.

International Manufacturing Conference in China (12th: 2006: Xi'an, China) Ed. by Chengyu Jiang et al. (Materials science forum; v.532-533) Trans Tech Publications, ©2006 1189 p. \$362.00 (pa)

Over 1100 pages hold some 293 papers chosen from the more than 500 papers presented at the conference held in China in 2006. A sampling of topics: microfluidics control method based on the EOF technology, the effect of coatings on mechanical properties of TC4 titanium alloy during laser shock processing, surface integrity of an ultra-high strength alloy in HSC process, rotary ultrasonic machining of advanced ceramics, and elastic-plastic contact analysis of materials with gradient yield strength, among other topics. The conference has expanded in scope from just the machining aspects of engineering, and this collection offers some material of interest to management and information technology personnel; for example, papers address research on a web based remote monitor and control system for grinding process; semantic integration of manufacturing data sources; and application of ant colony algorithm and grey relation theory in selecting cooperative manufacturing partners.

TA401 978-0-87849-426-2

Materials science, testing and informatics III; proceedings.

Hungarian Conference on Materials Science, Testing and Informatics

(5th: 2005: Balatonfüred, Hungary) Ed. by J. Gyulai and P.J. Szabó. Trans Tech Publications, ©2007 725 p. \$305.00 (pa)

Proceedings of an October 2005 conference held in Balatonfüred, Hungary, providing a forum for Hungarian and foreign scientists and research groups working in metals and alloys, silicates, polymers and composites to exchange ideas and establish new and integrated partnerships. Following the plenary lecture, 91 contributions are organized into sections on classical materials and technologies, including mechanical engineering, electrotechnics, energetics, ceramics, and polymers; special materials and technologies, including nanotechnology and biotechnology; modern material research and testing methods; modeling and material informatics; and innovative products and technologies, including industrial applications technologies and properties. A sampling of topics: the effect of compression on the mechanical properties of wood material, carbon nanotubes as ceramic matrix reinforcements, changes of the sub-surface structure of materials developed during sliding friction, virtual TTT diagrams generated by multi-linear regression analysis, and high performance microcoulometry. Contains both author and keyword indexes.

TA401 2006-939990 978-0-87339-660-8

Shape casting; proceedings.

International symposium on Shape Casting (2d: 2007: Orlando, FL) Ed. by Paul N. Crepeau et al.

TMS (Minerals, Metals...Soc.), ©2007 310 p. \$67.00 (pa)

Proceedings from a February 2007 conference held in Orlando, Florida, affording researchers and foundry engineers an opportunity to exchange their latest findings on improving the quality and reliability of shape castings. Thirty-seven contributions are organized into sections on liquid metal/solidification, process design/analysis, structure/property, modeling, and applications/novel processes. A sampling of topics: preventative metal treatment through advanced melting system design, how to measure viscosity of liquid aluminum alloy, naturally pressurized filling system design, analysis of a confluence weld defect in an aluminum casting, effect of various HIP conditions on bifilms and mechanical properties in aluminum castings, rationalization of material properties for structural modeling of aluminum castings, modeling the onset and evolution of hydrogen pores during solidification, and a novel technique for melting and casting superalloys.

TA403 978-3-908451-34-1

Data compilation; diffusion in non-ferrous alloys.

Title main entry. Ed. by David J. Fisher. (Defect and diffusion forum; v.254-257)

Trans Tech Publications, ©2006 515 p. \$341.00 (pa)

This collection of data from leading publications over the last few decades covers defects and diffusion for the range of non-ferrous alloys from Ag to Zr. For each it includes such information as grain boundary diffusion, pipe diffusion and surface diffusion for the pure element and likely compounds. It also includes performance assessments in graphic and table form, when available, and all include the relevant algorithms and equations. Entries include source documentation for each citation with full bibliographic notation, and the editor includes full author and keyword indices.

- TA404 978-3-527-31711-0
Integral materials modeling; towards physics-based through-process models.
 Title main entry. Ed. by Günter Gottstein.
 Wiley-VCH, ©2007 295 p. \$150.00
 A December 2005 symposium in Aachen, Germany presented the final reports of research projects on material modeling. Materials scientists from Europe and the Americas discuss such topics as modeling the process chain of steels from casting to production properties, the deformation behavior of a plastic pipe fitting, coating turbine blades, simulating phase changes during thermal treatments of various metal alloys, and analytic inter-atomic potentials for atomic-scale simulations of metals and metal compounds.
- TA409 978-3-908451-29-7
Safety and structural integrity, 2006.
 Title main entry. Ed. by Young-Jin Kim.
 Trans Tech Publications, ©2007 300 p. \$182.00 (pa)
 From a December 2005 international symposium in Jeju, Korea, 42 selected papers emphasize emerging techniques for dealing with complex structures as they consider materials science and engineering aspects of fracture and fatigue, cracks, evaluating reliability, non-destructive evaluation, modeling, design and other topics relating to safety and structural integrity.
- TA417 2006-025868 978-0-8031-4472-9
Residual stress effects on fatigue and fracture testing and incorporation of results into design.
 Symposium on Residual Stress (2004: Salt Lake City, UT) Ed. by Jeffrey O. Bunch and M. R. Mitchell. (STP; 1497)
 ASTM International, ©2007 157 p. \$55.00 (pa)
 Eleven papers are compiled here by Bunch (Boeing Integrated Defense Systems) and Mitchell (Northern Arizona U.), from the Symposium on Residual Stress, held in Salt Lake City, Utah, in May of 2004, and sponsored by the American Society for Testing and Materials International Committee E08 on Fatigue and Fracture. Researchers, practitioners of residual stress measurement techniques, structural analysts, and designers from North America, Europe, and Japan contribute papers on the influence of processing and methods to account for residual stresses in predicting fatigue life, applications of residual stress measurement methods, and engineered residual stresses. No index is included.
- TA417 2007-015747 978-1-57117-105-4
Ultrasonic testing, 3d ed.
 Title main entry. Ed. by Gary L. Workman and Doron Kishoni. (Nondestructive testing handbook; v.7)
 Am.Soc. Nondestructive Testing, ©2007 587 p. \$181.25
 Reflecting advances in equipment and computer technology which enable improved data collection and analysis, the third edition of this handbook on ultrasonic testing offers more extensive coverage of techniques such as phased arrays, guided waves, laser ultrasonics, and newer signal processing techniques, and covers a broader range of applications in the aerospace industry. After an introduction to ultrasonic testing, chapters cover ultrasonic wave propagation, generation and detection of ultrasound, ultrasonic pulse echo contact techniques, ultrasonic scanning, ultrasonic characterization of material properties, and applications in metals, chemistry, petroleum, electric power, infrastructure, and the aerospace, railroad, and marine industries. A 16-page glossary is included. The readership for the book includes third-year undergraduates in mechanical engineering and materials science. Workman is affiliated with the University of Alabama, and Kishoni is a business consultant.
- TA418 2006-030712 978-1-4200-4675-5
Adsorption and diffusion in nanoporous materials.
 Roque-Malherbe, Rolando M. A.
 CRC / Taylor & Francis, ©2007 269 p. \$129.95
 From a material science perspective, Roque-Malherbe (physico-chemical applied research, Turabo U., Las Piedras, Puerto Rico) presents a state-of-the-art description of key aspects of the theory and practice of adsorption and diffusion. His emphasis is on gases in single-component systems of microporous crystalline, mesoporous ordered, and micro/mesoporous amorphous materials; and the structure and methods of modifying silica, active carbons, zeolites and related materials, and newer molecular sieves. These advanced materials have applications in fields including electronics, optics, pollution abatement, and biology. He analyzes the use of adsorbents to clean gas or liquid flows by the removal of low-concentration impurities. In the final chapter, he treats adsorption from the liquid state in multicomponent systems.
- TA418 2007-273202 978-0-87849-427-9
Advances in composite materials and structures; proceedings; 2v.
 Asian-Australasian Conference on Composite Materials (5th: 2006: Hong Kong, China) Ed. by J.K. Kim et al. (Key engineering materials; v.334/335)
 Trans Tech Publications, ©2007 1282 p. \$424.00 (pa)
 Organized by the Hong Kong University of Science & Technology, with help from three other Chinese institutions, ACCM is held every two years and is now in its fifth incarnation, attracting participation from an international roster of academics, researchers, and industry workers. The papers encompass topics pertaining to bio-medical composites, biomimetic materials, construction applications, computational mechanics, durability, NDE techniques, health monitoring, damage mechanics, nanomechanics, natural fibers, and green composites, to name a few. Three sections in the areas of nanocomposites, medicine, and smart composites have been added. A special section honors the 60th birthday of Professor Yiu-Wiong Mai. The presentation is in two volumes, with indexing in the second.
- TA418 978-3-908451-31-0
Advances in nanomaterials and processing; proceedings; 2v.
 IUMRS-ICA (2006: Jeju, Korea) Ed. by Byung Tae Ahn et al.
 Trans Tech Publications, ©2007 1870 p. \$538.00 (pa)
 Some 460 papers from the conference known as IUMRS - ICA (September 2006; Korea), organized by the Materials Research Society of Korea, are presented in two thick volumes, with indexing in the second. Material on materials is arranged in sections pertaining to silicon microelectronics, compound semiconductors, organic and inorganic display, photonics and optics, self-assembling, sol-gel, advanced ceramics, magnetic, energy conversion & storage, composites and hybrids, and nanoparticle and nanostructured materials. Coverage also includes mechanical behaviors of materials, and modelling and characterization.
- TA418 83-641658 0-8031-4114-9
Annual book of ASTM standards 2006; section 4: Construction; v.5: Chemical resistant nonmetallic materials; vitrified clay pipe; concrete pipe; fiber-reinforced cement products; mortars and grouts...
 Title main entry.
 ASTM International, ©2006 1352 p. \$242.00 (pa)
 Accomplishing its work through the efforts of volunteer members throughout the world, ASTM uses a consensus process and 138 standards-writing committees to develop technical standards for a variety of materials, products, systems, and services. These are updated regularly and published in the *Annual Book of ASTM Standards*, which currently comprises 78 volumes. Volume 04.05 contains construction standards relating to chemical resistant nonmetallic materials; vitrified clay pipe; concrete pipe; fiber-reinforced cement products; mortars and grouts; masonry; and precast concrete.
- TA418 2007-061450 978-1-4200-4519-2
Composite materials; design and applications, 2d ed.
 Gay, Daniel and Suong V. Hoa.
 CRC / Taylor & Francis, ©2007 548 p. \$99.95
 This graduate textbook describes the principal processes for the formation of composite parts, the properties of single plies and sandwich structures, methods of assembly, the mechanics of composite materials, and the orthotropic coefficients used for design. The final section provides 43 examples of the use and design of composites. Originally published in French as *Materiaux composites*.

Watch for four stars: ★★★★★ The stars you see at the beginning of some annotations can help with collection development. They indicate that a previous edition has been cited in *Books for College Libraries, 3rd ed.*, in *Guide to Reference Books*, or in other standard references.

- TA418 978-1-84564-073-6
Computer methods and experimental measurements for surface effects and contact mechanics VIII; proceedings.
 International Conference on Surface Treatment and Contact Mechanics (8th: 2007: The New Forest, UK) Ed. by J.T.M. De Hosson et al. (WIT transactions on engineering sciences; v.55)
 WIT Press, ©2007 335 p. \$225.00
 Taken from those presented at the conference of June 2007, these papers describe research in surface treatments as they relate to contact mechanics. Here the basic issues are wear, corrosion and friction, all of which threaten product quality as well as production yields, so the topics here include surface treatments, including improving Ti alloys with DLC coverings and using laser cladding to thicken tool steel coatings, thin coatings, including observing ionic migration behavior in minute wiring on a flexible substrate and multilayer contacts in electrical connectors, surface problems in contact mechanics, including the case of a fussy lens, contact mechanics, including several articles on numerical analysis and characterization, material surfaces in contact, including measurement techniques and wear assessment, fracture and fatigue, including evaluations of those deadly nanoscratches, and applications. The US office of WIT Press is Computational Mechanics.
- TA418 978-1-84564-080-4
Computational methods and experiments in materials characterisation III; proceedings.
 Int'l Conference on Computational Methods and Experiments in Materials Characterisation (3d: 2007: Bologna, Italy) Ed. by A.A. Mammoli et al. (WIT transactions on engineering sciences; v.57)
 WIT Press, ©2007 444 p. \$290.00
 Proceedings from a conference on materials and their microstructures, experimental characterization techniques, and computational methods, held in 2007 in Bologna, Italy. Forty-three contributions are organized into sections on the microstructures of novel composite materials, of ceramics and advanced materials, of alloys, and of cements and cement-based materials; experimental methods, including imaging and analysis, thermal analysis, mechanical characterization and testing, and new methods; and computational methods, including discrete computational methods, damage mechanics, and innovative techniques. A sampling of topics: testing of palm fiber as reinforcement material in polyester composites, blocking and self-locking of superdislocations in intermetallics, martensitic transformation in hot stamping processes, reactive powder concrete, the spatial controlling Lamb waves excited by a point source on the cylindrical wall, thermo-analytical evaluation of wear debris for thermoplastic and sintered polyimide, modeling of viscoelastic properties of a curing adhesive, and seismic damage assessment of steel components. No subject index. The US office of WIT Press is Computational Mechanics.
- TA418 978-1-84564-084-2
Computational methods and experimental measurements XIII; proceedings.
 International Conference on Computational Method and Experimental Measurements (13th: 2006: Prague) Ed. by C.A. Brebbia and G.M. Carlomagno. (WIT transactions on modelling and simulation; v.46)
 WIT Press, ©2007 905 p. \$585.00
 This collection of papers describing recent research and findings is comprised primarily of advanced approaches and applications in numerical methods and experimental determinations, with the intention of showing how the two are mutually beneficial. General topics include computational and experimental methods, experimental and computational analysis, fluid flow, salts in porous materials, heat transfer, structural and stress analysis, experiment and analysis of reinforced concrete members, structural dynamics, dynamics and vibrations, detection and signal processing, advances in measurements and experiments and industrial applications. Several of the topics were presented in special sessions. The editors provide an author index and each paper has its own citations and references. The US office of WIT Press is Computational Mechanics.
- TA418 2006-014923 978-0-8493-8247-5
Corrosion of linings and coatings; cathodic and inhibitor protection and corrosion monitoring.
 Schweitzer, Philip A. (Corrosion engineering handbook; 2d ed.)
 CRC / Taylor & Francis, ©2007 551 p. \$89.95
 This resource for practitioners surveys a range of current techniques for preventing and monitoring corrosion. The volume opens with a discussion of mortars, grouts, and monolithic surfacings. Subsequent chapters deal with such topics as cathodic protection, corrosion inhibitors, sheet linings, and cementitious coatings. Engineers are the intended audience, along with others who may be responsible for the selection of construction materials. Consultant Schweitzer is the author or editor of a number of titles on corrosion prevention.
- TA418 978-0-8031-3414-0
Durability of building and construction sealants and adhesives; proceedings.
 Symposium on Durability of Building and Construction Sealants and Adhesives (2d: 2005: Reno, NV) Ed. by Andreas T. Wolf. (STP; 1488)
 ASTM International, ©2006 118 p. \$55.00 (pa)
 Twelve papers from the June 2005 symposium present recent studies on the durability of sealant and adhesive materials, explore the factors influencing the durability of sealed joints and adhesive fixations, and report on the development of new test methods and performance-based standards. Topics include reducing tin and aminosilane concentration in silicone elastomeric coatings, the seismic performance of two-side structural silicone glazing systems, and standards for impermeable and durable waterproofing. Black and white photographs are provided, but no index.
- TA418 2006-012378 978-1-60021-212-3
Frontal nanotechnology research.
 Title main entry. Ed. by Martin V. Berg.
 Nova Science Publishers, ©2007 231 p. \$129.00
 Frontal here seems to mean not anterior or ventral, but frontier. Material and chemical scientists and engineers from Asia, North America, and Europe—often working in trans-continental teams—survey recent research in designing materials from the atomic and molecular scale up. Among their topics are using applying coordination chemistry in fabricating inorganic nano-structures, the refluxing polyol synthesis of transition metal chalcogenides nano-crystallites, and molecular foundations for onset wear. The quality of the illustrations is not very high.
- TA418 2007-270289 978-3-908451-27-3
Nanocomposites and nanoporous materials; proceedings.
 International Symposium on Nanocomposites and Nanoporous Materials (7th: 2006: Gyeongju, Korea). (Diffusion and defect data; pt.B, Solid state phenomena; v.119)
 Trans Tech Publications, ©2007 334 p. \$138.00 (pa)
 Although now ubiquitous, these materials have not yet hit the status of commodities, in part due to the continued advances in composition and applications. This collection of papers is unique in that along with providing descriptions of the newest research, it also looks at environmentally-friendly materials research. Focusing on solid state phenomena, this collection of 80 papers covers nanocomposites, nanocatalysts, ultrafine polymers, nano-absorption, and nano-characterization along with other related fields. With a good mix of fundamental research and applied engineering, these papers address synthesis, mechanisms, microstructures, properties and applications, with papers on nonporous metal oxides, pore size control, mechanical milling, electronic applications, nanopowders, polymer matrix, structures and physico-chemical properties, enzyme-free electrochemical sensors and environmentally friendly materials.

TA418 2006-018539 978-1-60021-291-8

New topics in nanotechnology research.

Title main entry. Ed. by Matthew F. Ginobili.

Nova Science Publishers, ©2007 249 p. \$129.00

Along with mainstream biomedical and consumer applications, nanotechnology (which is actually a very broad description of a variety of activities at the level of atoms and molecules) has great potential in drug delivery, gene therapy, and drug discovery techniques. These seven articles describe aspects of nanotechnology, including the use of epitaxial oxides on semiconductors for applications in nanoelectronics, new methods for optimization of semiconductor nanostructures based on optimal control theory, epitaxial metallic nanostructures and their relationship with characterization and electron transport properties as well as other nanotechnologies, principles and applications of carbon nanotube and polymer nanocomposites, preparation of nanomaterials in the presence of branched molecules, progress in the synthesis of II-V group nanocrystals through solution routes, and laser-induced phase transformation in nanocrystalline silicon thin films.

TA418 2007-013616 978-0-8247-5389-4

Principles of composite materials mechanics, 2d ed.

Gibson, Ronald F. (Mechanical engineering; v.205)

CRC Press, ©2007 579 p. \$99.95

Composite materials have proven their potential, and the field is very active in both research and working applications. This edition has been thoroughly updated to reflect the new developments that have come as a result along with deeper coverage of foundations, such as the basic mechanics of materials equations. Gibson (composite engineering, Wayne State U.) includes updates on recent applications of composite mechanics to nanocomposites, the derivations of stress equilibrium equations and the strain-displacement relations from elasticity theory. He covers lamina stress-strain relationships, effective moduli and strength of a continuous fiber-reinforced lamina, analyses of lamina hygrothermal behavior and discontinuous fiber-reinforced lamina, analysis of laminates, analysis of fracture, and mechanical testing of composites and their constituents. The result is comprehensive but accessible and the update materials will serve practitioners as well as students.

TA418 2007-270809 978-1-58603-681-2

Thermal and structural performance of tow-placed, variable stiffness panels.

Wu, Kingsley Chauncey.

IOS Press, ©2006 183 p. \$69.00 (pa)

Advanced composite materials in the aerospace industry using tow placement systems in which the fiber orientation angle is allowed to vary continuously through the structure present a complex range of design and analysis problems because of the extremely large number of design variables that arise out of the fiber orientation angle within each ply at each point on the structure. In this study, Wu (Vehicle Analysis Branch, Systems Analysis and Concepts Directorate, NASA Langley) reports on a combination of experiments and analyses for characterizing the structural response of two variable stiffness composite panels (manufactured from AS4/977-3 graphite-epoxy prepreg using an advanced tow placement system) to a series of thermal and mechanical loads, covering all phases from design to global failure.

TA455 2006-014885 978-0-8493-8245-1

Corrosion of polymers and elastomers.

Schweitzer, Philip A. (Corrosion engineering handbook, 2d ed.)

CRC / Taylor & Francis, ©2007 578 p. \$89.95

As part of a three-volume set, *Corrosion engineering handbook, 2d ed.*, volume two evaluates the ability of 30 thermoplastic, 20 thermoset, and 27 elastomeric materials to resist corrosion, particularly in an industrial setting. Each entry describes the material's ability to withstand sun, weather, and ozone, characterizes compatibility with corrosives, and suggests typical applications. A separate chapter provides 200 corrosion tables arranged alphabetically according to the corrodent and varying concentrations.

TA455 2007-002982 978-1-56990-405-3

Handbook of engineering biopolymers; homopolymers, blends, and composites.

Title main entry. Ed. by Stoyko Fakirov and Debes Bhattacharyya.

Hanser Gardner Pub., ©2007 896 p. \$199.95

Fakirov (polymer chemistry, Sofia U., Bulgaria) and Bhattacharyya (advanced composite materials, U. of Auckland, New Zealand) have been working jointly on wider applications of a newer type of polymer composite or "green plastic" called microfibril-reinforced composites. Driven by increasing environmental concerns and new European Union legislation, international experts contributed to the 28 chapters contained in this handbook. The book reviews physiochemical properties, mechanical behavior, and commercial feasibility of composite alternatives made up at least partly of biodegradable, renewable plant-based fibers as substitutes for petroleum-based synthetic polymers. The natural fibers studied include starches, cellulose, hemp, gelatin, soy, and silk. The volume commemorates Dr. Fakirov's 70th birthday.

TA460 978-3-527-31537-6

Fatigue crack propagation in metals and alloys; microstructural aspects and modelling concepts.

Krupp, Ulrich.

Wiley-VCH, ©2007 287 p. \$115.00

Analysis of crack initiation and early crack propagation is imperative in the study of metal fatigue. Conducted at the microscale level, the behaviors observed here closely explain how the material will function and look across its lifetime. However it is impossible to conduct analysis with non-destructive methods such as ultrasonic inspection, so improvements in the techniques available are always welcomed. Krupp (engineering metallic materials, U. of Applied Sciences, Osnabruck, Germany) uses his experience as a practitioner to organize his material logically according to real-world needs and situations, introducing the basic concepts of metal fatigue and fracture in the engineering design process, experimental approaches to crack propagation, including the newest methods, physical metallurgy of the deformation behavior of metals and alloys, initiation of microcracks, and modeling crack propagation accounting for microstructural features. This volume is well illustrated and can serve as both a professional reference and a classroom text.

TA462 978-3-527-31124-8

Corrosion handbook; corrosive agents and their interaction with materials, 2d rev.ed.; v.8: chlorinate hydrocarbons - Chloromethanes.

Title main entry. Ed. by Gerhard Kreysa and Michael Schütze.

Wiley-VCH, ©2007 383 p. \$475.00

This handbook characterizes the corrosion of metals, alloys, inorganic materials, plastics, coatings, and seals in methyl chloride, methylene dichloride, chloroform, and carbon tetrachloride. The 77 entries cite quantitative data on corrosion rates coupled with commentaries on the background and mechanisms of corrosion behind the data and the dependencies on secondary parameters, such as flow rate, pH, and temperature. Originally published in German as *DECHEMA Werkstoff Tabelle* in 1987, the second edition updates data with research funded by the German government.

TA462 2006-014876 978-0-8493-8243-7

Fundamentals of metallic corrosion; atmospheric and media corrosion of metals.

Schweitzer, Philip A. (Corrosion engineering handbook; 2d ed.)

CRC / Taylor & Francis, ©2007 727 p. \$99.95

Essential for choosing materials that will withstand environmental and process conditions, the understanding of corrosion is essential for successfully designing, using and maintaining equipment and structural components. This reference, which provides complete coverage of the science underlying corrosion in metals and alloys, concentrates on such atmospheric corrosives as compounds containing sulfur, nitrogen and chlorine and natural media such as water, acids, salts, organics and gases. It devotes significant space to metal types and their alloys, including nickel alloys, copper, copper alloys, aluminum, titanium, zinc, lead, other nonferrous materials and alloys and especially stainless, ferritic and martensitic steels. It includes the effects of indoor and outdoor pollutants on materials, comparability data and the resistance of coatings. Users will find the illustrations and tables easy to use and the index is particularly helpful.

- TA472 0-8493-7182-1
Advanced concepts of bearing technology. (CD-ROM included)
 Harris, Tedric A. and Michael N. Kotzalas. (Rolling bearing analysis, 5th ed.)
 CRC / Taylor & Francis, ©2007 352 p. \$119.95
 Harris (Pennsylvania State University) and Kotzalas (Timken Company) delve into the more advanced requirements of ball and roller bearings operating under dynamic loading, extreme conditions, and high-speed applications. The handbook explains methods for estimating rolling contact friction shear stresses and calculating the effects on fatigue endurance of all stresses associated with the bearing rolling and sliding contacts. The fifth edition has been divided into two volumes, with the first introducing the basic use, design, and performance of rolling bearings for more common applications. The CD-ROM contains numerical examples and tables of dimensional, mounting, and life-rating data obtained from ABMA/ANSI standards.
- TA472 2007-16268 978-0-8031-3491-1
Bearing steel technology; advances and state of the art in bearing steel quality assurance; proceedings.
 Bearing steel technology symposium (7th: 2005: Reno, Nevada). Ed. by John M Beswick. (STP; 1465. Symposium series, 7)
 ASTM International, ©2007 266 p. \$63.00 (pa)
 This volume contains 25 of the papers presented at the symposium of the same title held in Reno, Nevada, in May 2005. Symposium chair Beswick (with a company in The Netherlands) introduces this volume as an overview of advances, trends, and issues in the bearing steel and rolling bearing manufacturing industries. He also notes that such forums may need to become more frequent than every four-five years to accommodate new developments. Contributors review historical, technological, analytical, and quality assurance aspects of this global industry. Papers include illustrations, tables, and graphs.
- TA472 0-8493-7183-X
Essential concepts of bearing technology. (CD-ROM included)
 Harris, Tedric A. and Michael N. Kotzalas. (Rolling bearing analysis; 5th ed.)
 CRC / Taylor & Francis, ©2007 371 p. \$119.95
 The classic engineering reference *Rolling Bearing Analysis* has been divided into two volumes for its fifth edition. The first volume, titled *Essential Concepts of Bearing Technology*, focuses on the fundamental concepts underlying rolling bearing behavior. Its intended audience includes students as well as practicing engineers. The volume is illustrated throughout with b&w drawings, photographs, and diagrams. Numerical examples are found on the accompanying CD-ROM, along with tables of ABMA/ANSI standards. Harris is the author of 67 technical publications, mostly on rolling bearings. Kotzalas is a researcher with The Timken Company.
- TA480 2007-921346 978-0-87339-662-2
Aluminum alloys; for transportation, packaging, aerospace and other applications; proceedings.
 TMS Annual Meeting & Exhibition (2007: Orlando, FL) Ed. by Subodh K. Das and Weimin Yin.
 TMS (Minerals, Metals...Soc.), ©2006 222 p. \$85.00 (pa)
 This volume consists of the proceedings of a symposium, "Aluminum Alloys for Transportation, Packaging, Aerospace, and Other Applications," sponsored by the Light Metals Division of The Minerals, Metals & Materials Society, held in February and March of 2007 in Orlando, Florida. Das (aluminum technology, U. of Kentucky) and Yin, a materials engineer, collect 24 papers on the research and development of aluminum alloys and their applications. Contributors from universities and companies around the world discuss aluminum applications and products, and alloy development, processing, characterization, and mechanical behavior. Both subject and author indexes are provided.
- TA480 2007-921104 978-0-87339-665-3
Innovations in titanium technology; proceedings.
 TMS Annual Meeting & Exhibition (2007: Orlando, FL) Ed. by Mehmet N. Gungor et al.
 TMS (Minerals, Metals...Soc.), ©2007 268 p. \$97.00 (pa)
 Held at the TMS 2007 Annual Meeting and Exhibition in Orlando, Florida, the "Innovations in Titanium Technology" symposium focused on new technologies that are reducing the costs of titanium production and processing. This proceedings volume contains 28 papers from the symposium. A sampling of topics includes a new process for producing titanium aluminide-based alloy powders; advances in titanium metal injection molding; and engineering aspects of thermohydrogen processing of large complex titanium castings. Editor Gungor is a researcher with Concurrent Technologies Corporation.
- TA485 978-1-55899-937-4
Advanced intermetallic-based alloys; proceedings.
 Symposium on Advanced Intermetallic-Based Alloys (2006: Boston, MA) Ed. Jörg Wiezorek et al. (Materials Research Society symposium proceedings; v.980)
 Materials Research Society, ©2007 588 p. \$115.00
 Conducted as part of the November 2006 Materials Research Society Fall Meeting, the eponymous symposium brought together an international group of researchers to present recent advances in basic and applied aspects of experimental and theoretical research on processing, characterization, properties, and applications of alloys based on intermetallic phases. The editors (of the U. of Pittsburgh and Oak Ridge National Laboratory in the US, the Tokyo Institute of Technology in Japan, Centro Nacional de Investigaciones Metalúrgicas in Spain, and Montanuniversität Leoben in Austria) present 87 papers from the symposium grouped into the same topical areas as its seven sessions: iron and nickel aluminides, theory, magnetic intermetallics, thermoelectric intermetallics and shape memory alloys, silicides and other intermetallics, titanium aluminides and other intermetallics, and multiphase alloys and superalloys.
- TA491 978-0-471-73012-5
Macromolecules containing metal and metal-like elements; v.8: Boron-containing polymers.
 Title main entry. Ed. by Alaa S. Abd-El-Aziz et al. (Series: title)
 Wiley-Interscience, ©2007 206 p. \$150.00
 After summarizing the current state of boron polymer chemistry, Materials scientists, chemists, and biotechnologists look at polymers with icosahedral closo-dicarbaborane units, polymers with boron and nitrogen and their use in advanced materials, and organo-boron polymers and using electrolytes of them for selective lithium cation transport.
- TA647 978-1-84564-070-5
Computer aided optimum design in engineering X; proceedings.
 International Conference on [Title] (10th: 2007: Myrtle Beach, SC) Ed. by S. Hernandez and C.A. Brebbia. (WIT transactions on the built environment; v.91)
 WIT Press, ©2007 251 p. \$169.00
 These proceedings of the May 2007 conference include papers on algorithmic and topology optimization (including global versus local statement of stress constraints in topology optimization of continuum structures), shape optimization (including optimization of geometry for the lateral buckling process of a cantilever beam), and applications in construction engineering, mechanical and aircraft engineering and process optimization. Each article includes examples or samples and full bibliographies. Many of the authors have also provided clear and concise illustrations. The US office of WIT Press is Computational Mechanics.

TA654 2006-032165 978-1-59904-099-8

Intelligent computational paradigms in earthquake engineering.

Lagaros, Nikos D. and Yiannis Tsompanakis.

Idea Group Publishing, ©2007 444 p. \$99.95

Lagaros (U. of Thessaly, Greece) and Tsompanakis (Technical U. of Crete, Greece) present 16 chapters that explore artificial intelligence or soft computing applications in the field of earthquake engineering. The papers collectively address issues of optimization, structural assessment, and structural identification. Specific topics include neural networks for performance-based design in earthquake engineering, evolutionary seismic design for optimal performance, optimum design of structures for earthquake induced loading by wavelet neural network, learning machines for structural damage detection, life-cycle cost evaluation of bridge structures considering seismic risk, inverse analysis of weak and strong motion downhole array data, genetic algorithms in structural identification and damage detection, and neural networks for the simulation and identification analysis of buildings subjected to paraseismic excitations.

TA654 2006-043071 978-0-7844-0857-5

Snow loads; guide to the snow load provisions of ASCE 7-05.

O'Rourke, Michael J.

Am. Society of Civil Engineers, ©2007 161 p. \$59.00 (pa)

Nine of the chapters in this handbook elucidate the corresponding sections 7.2 to 7.10 of ASCE 7-05, and provide several examples for each type of roof and snow load. Complete snow design examples of a gable roof metal building with a roof step, a pole barn with a hip roof, and a single-family residence round out the book. The author has taught civil engineering at Rensselaer Polytechnic Institute.

TA658 978-1-84564-078-1

Earthquake resistant engineering structures VI; proceedings.

International Conference on Earthquake Resistant Engineering Structures (6th: 2007: Bologna, Italy) Ed. by C.A. Brebbia et al. (WIT transactions on the built environment; v.93)

WIT Press, ©2007 470 p. \$345.00

Brebbia (Wessex Institute of Technology, UK) presents selected papers from a 2007 conference on the design and construction of new earthquake resistant structures and retrofitting of existing buildings. Areas covered include bridges, seismic isolation, passive protection devices, self-centering systems, and site effects and geotechnical aspects, as well as seismic behavior and vulnerability, lifelines, monitoring and testing, retrofitting, and structural dynamics. Specific topics examined include the behavior of coupling beams with vertical slits, testing of a large-scale two-span bridge model on multiple shake tables, modeling of the structural impact of seismically isolated buildings, and self-centering behavior of unbonded precast concrete shear walls. Other subjects covered include liquefaction potential evaluation for a site, evaluation of lateral load patterns in pushover analysis, shaking table tests on shallow foundations, and dynamic analysis of plates stiffened by parallel beams. There is no subject index. The US office of WIT Press is Computational Mechanics.

TA658 2007-013718 978-0-471-78904-8

Structural design; a practical guide for architects, 2d ed.

Underwood, Rod and Michele Chiuni.

John Wiley & Sons, ©2007 792 p. \$110.00

This text addresses structures both on a conceptual level and on a numerical level, aiming to give architects the language they need to communicate well with structural engineers (who, the authors advise, must be brought to any project early in the design process). Underwood and Chiumin (both affiliated with the architecture department at Ball State U., Indiana) indicate in their preface that this second edition was initiated because of the adoption or impending adoption of the International Building Code (IBC) as the standard for the United States, and the spreading use of load and resistance factor design (LRFD) for steel design. Other code changes are also incorporated. The text covers all primary structural materials (steel, wood, reinforced concrete, and masonry), as well as new materials or combinations, composites, and stressed-skin. A practical amount of math is included, along with examples and sample problems. The approximately 700 illustrations include photos, technical drawings, line diagrams, and freehand sketches.

TA660 2007-017552 978-1-56347-917-5

Highly flexible structures; modeling, computation, and experimentation. (CD-ROM included)

Pai, P. Frank. (AIAA education series)

Am. Inst. of Aero. & Astro., ©2007 742 p. \$129.95

Highly flexible structures as discussed in this work by Pai (mechanical and aerospace engineering, U. of Missouri-Columbia) are nonlinearly elastic structures designed that have applications from space structural systems to home appliances. He describes the modeling and computational analysis of highly flexible structures and presents experimental techniques for measuring large static and/or dynamic deformations of highly flexible structures. His graduate-level treatment is intended to close the gap between engineers and applied mathematicians. It presents mathematically consistent and systematic derivations of geometrically exact theories for one-dimensional and two-dimensional structures, solution techniques based on the multiple shooting method for computing numerically exact solutions, fully nonlinear finite element analysis of static and dynamic deformations, and the experimental methods mentioned above. The CD-ROM contains programs for solving example problems, finite element solution sequences, function files of types of linear and nonlinear finite elements, a variety of functions, and video files showing experiments.

TA666 2007-273648 978-1-4051-4671-5

Timber designers' manual, 3d ed. (reprint, 2002)

Ozelton, E.C. and J.A. Baird. Ed. by E.C. Ozelton.

Blackwell Publishing, ©2006 542 p. \$79.95 (pa)

This reference manual, a paperback reissue reprinted from the third edition published in 2002, covers the general and detailed design of structural timber, including shear deflection, creep, and dynamic and lateral stability considerations for flexural members. This edition is based on and updated to reflect the changes in British Standard BS 5268-2: 2002, "Code of Practice for permissible stress design, materials and workmanship," which brought design concepts closer to European practice and Eurocode 5, "Design of Timber Structures." The recent introduction of a range of composite solid timber sections and I-Beams from the US and Europe is reflected in chapters on thin web beams and structural composite lumber. Tables and coefficients are provided. The manual is meant for practicing engineers, civil engineering undergraduates, and timber manufacturers. Ozelton is a consulting engineer specializing in the design and detailing of all forms of timber engineering and timber frame construction in the UK. Baird is a Chartered Structural Engineer who has worked on BSI documents such as design code BS 5628.

TA684 2007-002363 978-0-470-08631-5

Simplified design of steel structures, 8th ed.

Ambrose, James and Patrick Tripeny.

John Wiley & Sons, ©2007 468 p. \$85.00

This handbook for students details commonly used systems, design practices, and research in steel structures, with examples of practical designs and general building structural systems. This edition has been updated to meet building codes, design practices, and industry standards. It focuses on widely used, simple, and ordinary methods of construction and keeps math work to a minimum. Specifications conform to the American Institute of Steel Construction Handbook. Ambrose is editor of the Parker/Ambrose Series of Simplified Design Guides and has practiced as an architect and structural engineer. Tripeny is a professor of architecture and planning at the U. of Utah.

TA705 2006-052993 1-4200-5250-0

Geologic hazards; a field guide for geotechnical engineers.

Hunt, Roy E.

CRC / Taylor & Francis, ©2007 323 p. \$89.95

Hunt (geosciences, University of Pennsylvania) explains how to recognize, and understand, and minimize various geological hazards in this text/reference for engineers. Using general concepts rather than rigorous mathematical analyses, the book covers the prediction of slope failures through recognition of geologic and other factors that govern failure, and describes measures for dealing with slopes that are potentially unstable. Specific topics covered include the design and construction of stable cut slopes and side-hill fills, the stabilization of failed slopes, determining the potential for surface movements, and earthquake causes and surface effects. An appendix briefly reviews Earth's geological history. B&W photos are included.

TA710 83-641658 0-8031-4122-X
Annual book of ASTM standards 2006; section 4: Construction; v.04.09: Soil and rock (II); D 5714 - latest.
Title main entry.
ASTM International, ©2006 1627 p. \$276.00 (pa)
ASTM's standards are updated annually and published in the *Annual Book of ASTM Standards*, which currently comprises 78 volumes. Volume 04.09 contains construction standards relating to soil and rock and is one of two on this subject (the other is volume 04.08).

TA710 83-641658 0-8031-4120-3
Annual book of ASTM standards 2006; section 4: Construction; v.04.08: Soil and rock (I); D 420 - D 5611.
Title main entry.
ASTM International, ©2006 1441 p. \$246.00 (pa)
Accomplishing its work through the efforts of volunteer members throughout the world, ASTM uses a consensus process and 138 standards-writing committees to develop technical standards for a variety of materials, products, systems, and services. These are updated regularly and published in the *Annual Book of ASTM Standards*, which currently comprises 78 volumes. Volume 04.08 contains construction standards relating to soil and rock and is one of two on this subject (the other is volume 04.09).

TA710 2006-102407 978-1-4200-4562-8
Introduction to soil mechanics laboratory testing.
Fratta, Dante et al.
CRC / Taylor & Francis, ©2007 229 p. \$59.95
This resource gives new and experienced soil scientists basic procedures to use in taking measurements and spotting phenomena whether ex situ or in situ. The authors stick entirely to procedure and avoid theorizing, so the concise descriptions include description and identification in situ, physical properties, soil classification, soil construction and field inspection, engineering properties such as hydraulic conductivity and consolidation as well as shear strength. They include notes on report writing and even provide properties and conversion tables, making this very handy in the field as well as in the lab.

TA712 2007-016514 978-0-7844-0930-5
Geotechnical baseline reports for construction; suggested guidelines.
Title main entry. Ed. by Randall J. Essex.
Am. Society of Civil Engineers, ©2007 62 p. \$30.00 (pa)
Focusing on underground construction, this report examines the role of the Geotechnical Baseline Report (GBR) as a tool in allocating and managing risks associated with subsurface construction. The suggestions here augment those previously published and include justification for review of the GBR, the purpose of the GBR, shortcomings of previous practice, the contents of the GBR, including data and memoranda for design, creation of the "differing sites conditions" clause, the concept of a baseline, preparation of a GBR, applications for excavations and foundations, design-build procurement, owner perspectives, roles and responsibilities, and details of lessons learned in the preparation of this document. Read this and know before you go below.

TA770 978-1-889892-67-2
Builder's guide to drainage & retaining walls. (CD-ROM included)
Schwartz, Max.
Builder's Book, Inc., ©2007 290 p. \$59.95 (pa)
Two engineers explain the design and construction of lot drainage, street and slope drainage, and concrete masonry retaining walls. Topics include field surveying, septic tanks, soil erosion, grading specifications, stability of cut and embankments, concrete block, and crib walls. An appendix provides 102 detailed drawings of retaining walls. The CD-ROM contains an electronic version of the book in PDF format. Distributed by Craftsman Book Company.

TA1630 2007-009202 978-0-8194-6534-4
Optical correlation techniques and applications.
Title main entry. Ed. by Oleg V. Angelsky.
SPIE, ©2007 270 p. \$76.00 (pa)
Six researchers in optics at Chernivtsi University and one in medical biology and genetics at Bukovinian State Medical University, detail selected applications of optical correlation approaches and techniques in diverse problems of modern optics. After introducing linear singular optics, they consider diagnosing phase singularities in polychromatic fields, characterizing rough surfaces, and analyzing the statistical and fractal structure of biological tissue using Mueller matrix images.

TA1632 2006-101025 978-0-8493-7367-1
Blind image deconvolution; theory and applications.
Title main entry. Ed. by Patrizio Campisi and Karen Egiazarian.
CRC / Taylor & Francis, ©2007 448 p. \$149.95
Deconvolution is the process of reconstructing an original image from either one or multiple degraded observations using information about both the imaging system and the original image; the blind-image version must be used when no information is available about the original image. Researchers from Europe, North America, and Hong Kong review recent research and application from such perspectives as problem formulation and existing approaches, Bayesian methods based on variational approximations, applications in astronomy, and structured matrix computations with applications to array imaging.

TA1634 2007-925863 978-0-7695-2786-4
Computer and robot vision; proceedings.
Canadian Conference on Computer and Robot Vision (4th: 2007: Montreal, Quebec, Canada)
Computer Society Press, ©2007 520 p. \$255.00 (pa)
This volume contains the 26 oral presentations from the Fourth Canadian Conference on Computer and Robot Vision held in May of 2007. The presentations are organized into sections on camera calibration, early vision, motion, object recognition, robot control, robot vision, segmentation, and stereo vision. It also presents 31 poster papers on such topics as terrain modeling for planetary exploration, three-dimensional tree-structured object tracking for autonomous ground vehicles, wavelet-based light reconstruction from a single image, region detection and description for object category recognition, and images restoration using an iterative dynamic programming approach. Additionally, it includes eight papers from the associated International Workshop on Video Processing and Recognition that discussed such items as automatic annotation of humans in surveillance video, constructing face image logs that are both complete and concise, and real-time commercial recognition using color moments and hashing.

TA1634 2007-926797 978-0-7695-2903-5
Coordinated & multiple views in exploratory visualization; proceedings.
Conference on Coordinated & Multiple Views in Exploratory Visualization (5th: 2007: Zürich, Switzerland) Ed. by Gennady Andrienko et al.
Computer Society Press, ©2007 111 p. \$182.00 (pa)
These proceedings of the July 2007 conference include significant discoveries in how people can manipulate images to see a range of scenarios and solutions. Sessions and papers include such topics as visual exploration, including creating methods of interactive visual analysis, coordinating linear and two-dimensional displays, and viewing medical data to expedite medical diagnosis; theory and techniques, including creating hierarchical linked views and integrating data and quality space interactions; applications and toolkits, including using the GAV toolkit for multiple linked views and performing an interactive cross-detector analysis of vortical flow data; and panel discussions on the state of the art in the field, criticism of coordinated multiple views, requirements for industrial applications, and the future of coordinated and multiple view research.

TA1634 2007-927425 978-0-7695-2887-8
Machine vision and image processing; proceedings.
International Machine Vision and Image Processing conference (2007: County Kildare, Ireland) Ed. by John McDonald et al.
Computer Society Press, ©2007 216 p. \$99.50 (pa)
These proceedings from the conference of September 2007 include abstracts of the invited papers and posters. Topics of presented papers include image and shape representation and recovery, including a paper on shoeprint image retrieval by topological and pattern spectra, two-dimensional and three-dimensional analysis and visualization, including a range image feature extraction with varying degrees of data irregularity, medical and biomedical imaging, including computerized skin lesion analysis, object and event recognition, including non-linear approaches for the recognition of facial expression, image processing, including adaptive pre-filtering techniques for color image analysis, and applications, architecture and systems integration. The editors provide and author index.

All books cited here are new, and all are in print and available.
We prepare entries from bound books only, never galleys.

TA1637 2006-027731 978-1-59904-370-8

Semantic-based visual information retrieval.

Title main entry. Ed. by Yu-Jin Zhang.
IRM Press, ©2007 368 p. \$94.95

Much of the research on content-based visual information retrieval rests on computer recognition of low-level features of images, such as color, texture, shape, structure, and space relationships. However, Zhang (Tsinghua U., China) notes, the difference between users' concerns on semantic meaning and the appearances described by the low-level features gives rise to a semantic gap. He presents 16 papers that explore recent research in the field of semantic-based visual information retrieval. In the most general sense, the papers address the relationship between low-level features and the semantic level, image and video annotation, human-computer interaction, models and tools for semantic retrieval, and techniques in semantic retrieval applications. A few specific examples of topics discussed include shape-based image retrieval by alignment, adaptive metadata generation for integration of visual and semantic information, semi-automatic ground truth annotation for benchmarking of face detection in video, neural networks for content-based image retrieval, and semantic multimedia information analysis for retrieval applications.

TA1750 2005-027405 1-59454-771-8

New developments in lasers and electro-optics research.

Title main entry. Ed. by William T. Arkin.
Nova Science Publishers, ©2007 275 p. \$89.00

Scientists from around the world present research on optics and lasers in the eight chapters in this volume. They examine the ablation characteristics of polymers and glasses, the UV Cu+ laser, improvement of images reconstructed from 3D computer-generated holograms, three-dimensional multi-resolution imaging and modeling, in-line hologram reconstruction, speckle techniques for optical metrology, multi-wavelength semiconductor laser diodes for optical information storage systems, and shape detection.

TA1800 2006-050575 1-57444-698-3

Optical waveguides; from theory to applied mechanics.

Title main entry. Ed. by María L. Calvo and Vasudevan Lakshminarayanan. (Optical science and engineering series; 120)
CRC / Taylor & Francis, ©2007 401 p. \$139.95

Anticipating a future in which photonics will play a role in society similar to the one played by electronics in the last century, Calvo (physics, Complutense U. of Madrid, Spain) and Lakshminarayanan (optometry and physics, U. of Waterloo, Canada) introduce the science and technology of light waveguiding-based optical devices. They open with explanation of the theoretical foundations of waveguiding technologies, contained in chapters on propagation characteristics of planar optical waveguides, birefringent optical waveguides, and optically induced nonlinear waveguides. They then introduce the current photonic device and telecommunication technological landscape, covering active optical waveguides, wavelength dispersive planar waveguide devices, silicon waveguides for integrated devices, and enabling fabrication technologies for planar waveguide devices. Finally, biomedical optical waveguides and neutron waveguides are discussed.

HYDRAULIC ENGINEERING

TC203 978-0-7844-0834-6

Ports 2007; 30 years of sharing ideas...1977-2007; proceedings. CD-ROM

Ports (2007: San Diego, CA) Ed. by Wade Watson.
Am. Society of Civil Engineers, ©2007 - p. \$99.00

ASCE Publications describes this CD-ROM thus: Ports 2007 focuses on improving port, waterway and harbor facilities worldwide through sharing and encouraging technological advancements. 133 papers were prepared and presented in 36 technical sessions related to the following topics: Port Planning; Environmental Issues & Mitigation; Waterways & Channels; Landside Transportation; Terminals & Specific Facilities; Specific Technical Topics; Security; Life-Cycle Management; and Non-Traditional Projects.

TC401 2007-012748 978-0-7844-0928-2

Environmental and water resources; milestones in engineering history.

Title main entry. Ed. by Jerry R. Rogers.
Am. Society of Civil Engineers, ©2007 159 p. \$79.00 (pa)

The history of water engineering could be summed up as the account of the efforts of a small number of experts to make sure all of us get not too much water and also not too little. These 18 papers, many of which were presented at the Environmental and Water Resources Institute Congress held May 2007 in Tampa, Florida includes fascinating insights into how those few experts managed to pull off such feats as the Hoover Dam. The aforesaid includes field photographs taken by Ansel Adams but the others or no less impressive, covering historic small-scale projects by the Maya, the originators of San Antonio's water system and the folks who brought you Versailles, the results of Florida's statewide water management history project, histories of experimental watershed research in the US, and two papers on historic floods and the resulting action and research.

TC409 978-1-84564-075-0

River basin management IV; proceedings.

International Conference on River Basin Management (4th: 2007: Kos, Greece) Ed. by C.A. Brebbia and K.L. Katsifarakis. (WIT transactions on ecology and the environment; v.104)
WIT Press, ©2007 530 p. \$365.00

A May 2007 conference addressed the latest developments in the overall management of riverine systems. Papers from the conference look at engineering issues and current methods, offering a broad view of an integrated approach to river basin management within the framework of competing human demands, environmental problems, and national and international legislation. Material is in sections on water resource management, river and watershed management, hydraulics and hydrology, hydrological modeling, flood studies, sediment transport, stream bank erosion, water quality, and ecological and environmental impacts. Some specific topics covered include an integrated cell model for river basin simulation, the effect of buildings in floodplain overbank areas, using a neural network model to forecast flood events, hydraulics of bendway weirs, and monitoring river pollution with high-resolution satellite images. Case studies describe recent work in rivers in Europe, the Middle East, and Japan. There is no subject index. The US office of WIT Press is Computational Mechanics.

TC409 978-1-84339-109-8

Watershed management; issues and approaches.

Randhir, Timothy O.
IWA Publishing, ©2007 155 p. \$110.00

Using a problem-based approach, this volume examines issues facing watersheds, with chapters on major issues in watershed management. They consist of land use and water quality issues and those specific to inland water bodies, coastal watersheds, biodiversity and ecosystem health, and quantity and quality assessment. Each chapter addresses background information, a variety of problems, their impact, and structural and nonstructural solution alternatives. The book is aimed at professionals, students, and scientists wanting to learn about and use principles of watershed science in environmental problem solving. IWA in the UK now publishes many reports formerly published by AWWA Research Foundation (Denver); U.S. distribution by BookMasters.

TC1662 2006-404444 0-86341-450-8

Advances in unmanned marine vehicles.

Title main entry. Ed. by Geoff Roberts and Robert Sutton. (IEE control series; 69)
IEE, ©2006 441 p. \$99.00

This collection of reports and studies describes how unmanned marine vehicles (UMVs) work and what they do, whether they are not only unmanned but autonomous, remotely controlled, semi-submersible, or unmanned surface craft. Understandably attractive to both military and commercial interests, these vehicles are also important to navigation and scientific exploration, features not ignored by contributors who cover such aspects as nonlinear modeling, identification and control; guidance laws, obstacle avoidance and artificial potential functions; behavior control; thruster control of over-activated, open-frame vehicles; switching-based supervisor control; control of autonomous vehicles; low-cost alternatives; and a number of reports on specific vehicles, including those still in the computer model stage. Distributed in the US by Books International.

TD9 2006-045697 978-0-8160-6437-3
The Facts On File dictionary of environmental science, 3d ed.

Wyman, Bruce and L. Harold Stevenson. (Facts On File science library)
Facts On File, Inc., ©2007 498 p. \$49.50

Wyman and Stevenson, professors of environmental science at McNeese State University, gather 5,000 cross-referenced entries reflecting the breadth of the field, which includes agriculture, biology, chemistry, engineering, geology, government, law, medicine, microbiology, and toxicology. Revised and expanded by 450 new terms, the reference offers entries on people who are important in the field of environmental management, locations of notable environmental episodes, and profiles of organizations, government agencies, and programs. Fourteen new appendices present information on acronyms and abbreviations, units, standard human factors, plastic recycling codes, and chemical elements. The dictionary is illustrated with b&w diagrams, tables, and drawings. It will be useful to students, teachers, and science and technical writers.

TD170 978-1-58829-860-7
Advanced physicochemical treatment technologies.

Title main entry. Ed. by Lawrence K. Wang et al. (Handbook of environmental engineering; v.5)
Humana Press Inc., ©2007 710 p. \$175.00

Practicing environmental engineers and designers as well as students will find new information here on a variety of physicochemical water treatment technologies. Topics include pressurized ozonation, electrochemical wastewater treatment processes, irradiation, nonthermal plasma technology, biosorption, adsorption, ion exchange, membrane filtering, fine pore aeration, flotation, endocrine disrupters, filtration systems for small communities, chemical feeding systems, wet air oxidation, lime calcination, and desalinization by thermal distillation, electrodialysis or reverse osmosis.

TD171 978-0-7844-0897-1
GEO-Denver 2007; new peaks in geotechnics; proceedings.

GEO-Denver (2007: Denver, CA) Ed. by Harold W. Olsen.
Am. Society of Civil Engineers, ©2007 — p. \$95.00

The Geo-Denver 2007 Congress, of February 2007 covered recent developments in virtually all fields of geotechnical engineering. Attendees comprised practitioners, manufacturers, contractors, researchers, and students. The theme of the Congress was inclusiveness, innovation, and development for practical engineering applications. For the first time the technical sessions at the Symposium were organized and chaired by the Geo-Institute's Technical Committees themselves. Nearly 300 papers in 60 technical sessions have been organized into 18 Geotechnical Specialty Publications including computer applications; deep foundations; earth retaining structures; dynamic response and soil properties; embankments, dams and slopes; the New Orleans levee failures; problematic soils and rocks and in situ characterization; geoenvironmental engineering; innovative applications of geophysics in civil engineering; geosynthetics in reinforcement and hydraulic applications; soil erosion; grouting for ground improvement; probabilistic applications; shallow foundations; soil improvement; measurement and modeling of soil behavior; and designing underground space.

TD178 2006-018340 978-1-60021-285-7
Environmental pollution; new research.

Title main entry. Ed. by Rachel H. Plattenberg.
Nova Science Publishers, ©2007 308 p. \$129.00

Building on the research that created the literature on the nature, distribution and ecological effects of a range of types and forms of pollutants in air, soil and water, these eight articles describe past research and results on indicators and treatments. The articles cover such topics as B-esterases in the assessment or pesticide contamination, earthworms that monitor metal contamination, poisoning of the soil of shooting ranges by lead bullets, management of irrigated agriculture to increase organic carbon storage in soils, predicting the uptake and bioaccumulation of organic pollutants from natural sediments, phases in pyrite pollution, methodologies in evaluating hydrophobic organic contaminants, and modeling tidal and residual circulation and their relationship with oil and energy spills.

TD192 2006-015505 1-58829-541-9
Phytoremediation; methods and reviews.

Title main entry. Ed. by Neil Willey. (Methods in biotechnology; 23)
Humana Press Inc., ©2007 478 p. \$135.00

Willey (plant science, U. of the West of England, Bristol) introduces phytoremediation as a term coined in the 1980s to describe the use of plants to ameliorate degraded or polluted substrates. While plants have long been used to control soil erosion and water degradation, recent developments in biotechnology enable enhancement and wider applications of these abilities. International contributors to 31 chapters review methods for exploiting these properties to analyze and treat specific pollutants, and present case studies of applications in China and several other countries. Illustrations include maps of contaminated mining sites that would benefit from phytoremediation, diagrams of chemical transformations, and photos of lab equipment.

TD193 2006-038732 978-0-471-99815-0
Elements of environmental chemistry.

Hites, Ronald A.
Wiley-Interscience, ©2007 204 p. \$40.00 (pa)

Hites' (public and environmental affairs, Indiana U., Bloomington) text uses real-world examples to help readers master the quantitative aspects of environmental chemistry. Topics covered include steady- and non-steady-state modeling, chemical kinetics, stratospheric ozone, photochemical smog, the greenhouse effect, carbonate equilibria, the application of partition coefficients, pesticides, and toxic metals. Each chapter concludes with a problem set; answers are provided at the back of the book, with full solutions available at the publisher's website. Suitable for a one-semester course for upper-level undergraduate chemistry or chemical engineering majors, for first-year graduate students with only a modest physical science background, and as a self-study text for entry-level professionals.

TD194 2007-397104 92-64-02657-6
Applying Strategic Environmental Assessment; good practice guidance for development co-operation.

Title main entry. (DAC guidelines and reference series)
OECD, ©2006 160 p. \$37.00 (pa)

Strategic environmental assessment (SEA) is a tool for integrating principles of sustainable development into country policies and programs. This guide explains the benefits of using SEA in development cooperation, and sets out key steps for its application based on recent experiences. Twelve different entry points for practical applications are identified. For each entry point, the text provides a guidance note with a checklist of questions and hands-on case studies. Evaluation and capacity development for SEA processes are also addressed. The guide is aimed primarily at professionals working in development agencies and developing country governments, but it will also be of value to other policy analysts and planners. There is no subject index.

TD195 2006-031174 978-1-58901-153-3
The greening of the U.S. military; environmental policy, national security, and organizational change.

Durant, Robert F. (Public management and change series)
Georgetown U. Press, ©2007 298 p. \$29.95 (pa)

Durant (public administration and policy, American U.) describes an epic and ongoing struggle to build a corporate sense of responsibility within the US military for ensuring that its day-to-day operations promote national security without putting public health, safety, and the environment at risk. The story is less about the power of ideas, he says, than about the protection and pursuit of political, organizational, and personal prerogatives.

TD196 978-90-868602-8-9
Ammonia; the case of The Netherlands.

Title main entry. Ed. by Dick A. J. Starman and Klaas W. Van der Hoek.
Wageningen Academic Publishers, ©2007 201 p. \$59.00

Ammonia emissions play a major role in the formation of acid rain. The focus of this volume is recent Dutch research and policy treating the environmental threat posed by ammonia emissions arising from animal production. Starman (Animal Sciences Control Group, Wageningen) and Van der Hoek (National Institute for Public Health and the Environment, Bilthoven, The Netherlands) introduce seven chapters describing animal production in the country, related legislation, a model for calculating such emissions, and abatement efforts. The monograph includes an English-Dutch glossary, data on emissions, and fact sheets on low emissions housing systems for dairy cattle, pigs, and poultry. Distributed in the US by Enfield Distribution Co.

- TD196 978-3-527-31606-9
Atmospheric degradation of organic substances; data for persistence and long-range transport potential.
 Klöpffer, Walter and Burkhard O. Wagner.
Wiley-VCH, ©2007 241 p. \$190.00
 Klöpffer (physical chemistry, U. of Mainz) and Wagner, who long headed the environmental exposure assessment of chemicals for the German Federal Environmental Agency, compile data obtained over the past decades and add information from recent papers on the photo-degradation and other abiotic degradation of organic compounds, and the significance of that degradation on assessing environmental risk from pollutants. Most of the text describes processes citing example chemicals, but one of the three chapters is devoted to a table of chemicals showing reaction rate constants of photo-degradation processes.
- TD201 978-0-7844-0927-5
World Environmental and Water Resources Congress 2007; restoring our natural habitat; proceedings. (CD-ROM)
 World Water and Environmental Resources Congress (2007).
Am. Society of Civil Engineers, ©2007 — p. \$180.00
 Presented here on CD-ROM are the proceedings of the 2007 World Environmental and Water Resources Congress, whose theme “Restoring our natural habitat,” states an urgent task for engineers and other resource professionals. Specialists share their work and speculations on environmental and water resources issues in a meeting that sets a new direction for EWRI. Instead of starting with the built environment, EWRI approached the conference from the perspective of natural resources, examining how to mitigate human impact upon natural resources.
- TD321 2007-367111 978-0-643-09337-9
Australia’s water resources; from use to management.
 Pigram, John J.
CSIRO, ©2006 226 p. \$81.00
 This work examines Australia’s water management policies and strategies, looking at water pricing, administrative restructuring in water management, water markets and trade, integrated water resources management, and the emergence of the private sector. Rural and urban water needs are addressed, and several chapters discuss solutions for water consumption in industry, mining, energy generation, and agriculture, as well as outdoor recreation and tourism. Author information is not given. The book is distributed in the US by Antipodes Books and Beyond.
- TD345 978-1-84339-167-8
Integrated deliberative decision processes for water resources planning and evaluation.
 Title main entry. Ed. by Giorgos Kallis et al.
IWA Publishing, ©2007 61 p. \$100.00 (pa)
 This guidance document is part of the ADVISOR (“Integrated Evaluation for Sustainable River Basin Governance”) research project funded by the European Commission, under the “Energy, Environment and Sustainable Development” theme of the Fifth Framework Research Program. Previous documents examined past water project or plan evaluation cases in five European Union states, analyzed their lessons for constructing a theory for an integrated evaluation process, and tested tools for contributing to integrated evaluation. This document aims to deliver the lessons of those previous works to policy makers and proposes an Integrated Deliberative Decision Process to be adopted as part of the implementation process of the Water Framework Directive. IWA in the UK now publishes many reports formerly published by AWWA Research Foundation (Denver). US distribution is by BookMasters.
- TD345 2006-052622 1-58321-471-2
Water resources planning, 2d ed.
 Title main entry. (AWWA manual; M50)
American Water Works Assn., ©2007 392 p. \$118.00 (pa)
 This resource for water utility professionals explains how to forecast future demands for potable water and create a plan for developing new water supplies. Some of the topics addressed include water rights and policy; evaluation of surface and groundwater sources; hydrologic modeling; environmental impact analysis; and watershed management. The volume concludes with an overview of the integrated resource planning (IRP) model. The second edition provides additional case studies and features a new section on conjunctive use as a water source option.
- TD365 2004-297431 978-1-84339-869-1
Random demands, travel times, and water quality in deadends. (CD-ROM included)
 Title main entry. Prepared by Steven G. Buchberger et al.
American Water Works Assn., ©2006 470 p. \$205.00
 This book/CD-ROM report describes a study designed to improve modeling and prediction of flow and quality of drinking water in municipal distribution systems. The study established a record for water consumption and quality in a residential neighborhood near Cincinnati, Ohio, and sought to derive travel time distributions for water delivered to consumers on a dead-end loop and to evaluate the usefulness of real-time monitoring of distribution system water quality. The CD-ROM contains about 200 pages of data appendices, accessible with Adobe Reader. Buchberger is affiliated with the Department of Civil and Environmental Engineering at the University of Cincinnati. The book was published in 2003, but the book/CD-ROM package wasn’t available until 2006.
- TD427 1-58321-514-X
Multiplexed waterborne pathogen detection using DNA microarrays.
 Title main entry. Ed. by Timothy M. Straub.
American Water Works Assn., ©2006 45 p. \$149.00 (pa)
 Straub (Battelle Memorial Institute) investigates DNA microarrays as a method for achieving deeply multiplexed pathogen detection as it might apply to waterborne pathogen monitoring. However, even with the most efficient methods for concentrating and purifying target nucleic acids from water, some form of amplification is needed. The research evaluates different strategies to amplify and label target DNA using PCR-based, direct RNA, and random amplification approaches. The conclusion recommends further research on the random generation method for generating labeled targets to hybridize to a waterborne pathogen microarray. No index is provided.
- TD427 2004-270253 978-1-84339-860-8
Occurrence of MTBE and VOCs in drinking water sources of the United States. (CD-ROM included)
 Title main entry. Prepared by Bart Koch et al.
American Water Works Assn., ©2006 189 p. \$205.00 (pa)
 This book/CD-ROM report presents the findings of research on the frequency of occurrence, concentration, and distribution of methyl tert-butyl ether (MTBE), other gasoline oxygenates, their degradation products, and 62 other volatile organic compounds (VOCs) in source water used by community water systems (CWSs) in the US. The investigation was completed in two stages: reviews of three national, two regional, and 13 statewide assessments of water supplies, and the collection of new data in two surveys. The first survey collected data from 954 randomly selected ground-water-supplied and surface-water-supplied CWSs in all 50 states, Native American lands, and Puerto Rico. The second survey included samples collected from 134 CWS source waters, including ground water, reservoirs, lakes, and streams, that were suspected or known to contain MTBE. The CD-ROM contains more than 250 pages of appendices. Koch is affiliated with the Metropolitan Water District of Southern California. The book was published in 2003, but the book/CD-ROM package was not available until 2006.
- TD434 2006-047749 1-58321-386-4
AWWA wastewater operator field guide.
 Title main entry. Ed. by John M. Stubbart et al.
American Water Works Assn., ©2006 443 p. \$60.00 (pa)
 This text is comprehensive enough to serve as a reference, containing a broad range of information, including charts, graphs, formulas and drawings operators can use daily in maintaining wastewater and collection systems. It covers basic math, including key formulas and conversions for flows and meters; units of measure and conversion, including temperatures and water conversions; chemistry, including conductivity and dissolved fluids; safety, including OSHA safety regulations and fire safety; collections, including flow measurement, sewer construction, pipe characteristics, gauges and valves, pipe cleaning, corrosion and water exfiltration; pumps, including electrical measurements, horsepower and efficiency; flow, including types of flumes and meters and key formulas for flows and meters, wastewater treatment, including information on grit, diffusers and settling; biosolids, including sludge processing calculations, dewatering, measurement practices and regulatory requirements; and discharge and disinfection, including chlorine and ultraviolet treatments and marine discharge. A glossary, list of abbreviations and acronyms, and a comprehensive index are included.

- TD434 978-1-58321-506-7
Benchmarking; performance indicators for water and wastewater utilities; 2006 annual survey data and analysis report.
 Title main entry.
American Water Works Assn., ©2007 81 p. \$295.00 (pa)
 Published in a horizontal format (11x8.5") to better display the tables, this volume displays performance indicators in several categories as reported by 193 utilities, mainly in the US. Among the indicators for which statistics were gathered are organizational development, customer relations, business operations, water operations, and wastewater operations. Statistics are given for numerous aspects of each indicator and a frequency distribution summary is provided. An appendix contains definitions and calculations; there is no index.
- TD434
Biomedical sciences instrumentation; proceedings.
 Rocky Mountain Bioengineering Symposium; International ISA Biomedical Sciences Instrumentation Symposium (2007: 44th: Denver, Colorado) (Technical papers of ISA; v.468)
 ISA, ©2007 389 p. \$94.00 (pa)
 This volume presents the proceedings of the 44th annual Rocky Mountain Bioengineering Symposium, held in April of 2007. The 65 papers from the symposium were presented at session dealing with such topics as biochemical engineering, signal processing, modeling, biomaterials, image processing, biomechanics, cardiovascular engineering, trauma and injury, and information systems. A few examples of specific topics include the biomechanics of under ride motor vehicle crashes, the effects of androstenedione on renal tubule epithelial cells, optimal diffusion tensor indices for imaging the human spinal cord, electro-oculogram wheelchair control, lateral bending biomechanical analysis of neck protection devices used in football, quasi-linear viscoelastic characterization of human hip ligaments, and synthetic vision and emotion calculation in intelligent virtual human modeling. The publisher has not assigned an ISBN for this book.
- TD434 1-58321-512-3
Real-time artificial intelligence control and optimization of a full-scale WTP.
 Title main entry. Ed. by Riyaz Shariff et al.
American Water Works Assn., ©2006 161 p. \$269.00 (pa)
 This publication, from a study sponsored by the Awwa Research Foundation, describes the development of an advanced artificial neural network (ANN) model-based process control system for the dissolved air flotation water treatment facility in Port Hardy, British Columbia, Canada. It builds on the results of two previous studies of the Awwa Research Foundation on the use of ANNs in the potable water industry and moves the process control technology from research to operation. The study's research background is outlined, followed by the process of building the system, development of models for the pilot plant and the transferability to the full-scale plant, application of the system to the full-scale trial, and protocol that can be used by other utilities for implementation. There is no index.
- TD442 978-1-84339-760-1
Membrane bioreactors for anaerobic treatment of wastewater; phase II.
 Hall, Eric R. and Pierre R. Bérubé.
Water Environment Research Fdn., ©2006 — p. \$206.00 (pa)
 This report covers the results of a study that assessed the performance of external and submerged membranes operated at different loading rates when treating low-strength wastewater at a relatively low temperature and assessed the membranes' filtration characteristics under several qualities of effluent. The study showed effluent quality was not significantly affected by the type of membrane, but that membrane flux became the limiting process attribute. The report includes the critical bioreactor and membrane system parameters, the experimental approach of both Phase I and Phase II, and assessments of external and submerged membranes and off-line and on-line filtration tests. The conclusion calls for future work to assess characteristics and results of more field tests.
- TD443 1-58321-506-9
Riverbank filtration; an evaluation of RBF hydrology and impacts on yield.
 Title main entry. Ed. by Stephen A. Hubbs et al.
American Water Works Assn., ©2006 103 p. \$209.00 (pa)
 Hubbs (University of Louisville) and two employees of the Louisville Water Company assess clogging in riverbank filtration systems using data from 11 riverbank filtration sites, and collect site-specific data on one site to help interpret the larger data. The resulting report focuses on the interaction between the river, the riverbed, the aquifer, and the well along with the associated parameters that influence how much water will flow from a given system at a given site. The conclusions recommend design considerations for planning a project involving riverbank filtration. The appendices examine three techniques for estimating shear stress, and evaluate pump tests in the Ohio River. No index is provided.
- TD481 2006-937261 978-1-84339-132-6
Engineering and costs of dual water supply systems.
 Tang, S.L. et al.
IWA Publishing, ©2007 90 p. \$110.00
 Hong Kong is the only large city that operates a dual water supply system, in which fresh potable water is distributed separately from non-potable water used for toilet flushing and related applications. This covers the economic and engineering aspects of dual water systems, including the problems associated with operating a non-potable seawater distribution system (such as corrosion, biological growth inside pipelines, ecology issues and mixing salt with solid waste), cost comparisons of dual systems with entirely potable systems, reclaimed water as an element of the system, cost comparison of seawater, raw fresh water and reclaimed water for toilet flushing, and the possibility of using urban runoff as toilet flushing water. Although the authors are careful to be objective, it is clear that Hong Kong's system is a model for others to follow, if they keep in mind the lessons learned. US distribution by BookMasters.
- TD482 2006-051778 1-58321-455-0
Math for distribution system operators; practice problems to prepare for distribution system operator certification exams.
 Giorgi, John.
American Water Works Assn., ©2007 281 p. \$75.00 (pa)
 The 430 worked problems in this study guide are divided into four sections corresponding to each grade level for water distribution. Each section walks through the solution of progressively more difficult conversion problems, average and percent calculations, pressure problems, volume determinations, flushing time problems, dosage calculations, and pumping discharge problems. Appendices list conversion factors, formulas, chemistry tables, and maximum contaminant levels.
- TD482 2006-047723 978-1-58321-454-1
Math for water treatment operators; practice problems to prepare for water treatment operator certification exams. (CD-ROM included)
 Giorgi, John.
American Water Works Assn., ©2007 365 p. \$75.00 (pa)
 Water is, not surprisingly, a numbers game, particularly in the efforts to make it safe for the public. This study guide explains the mathematics necessary to sit for certification exams and is organized according to grade. Grade 1, for example, includes conversion problems, percent calculations, pressure problems and pumping calculations, while Grade 2 includes density calculations, flow rate problems, and more advanced calculations for wells. Grade 3 includes advanced filtration rates, backwash, corrosion, and ion exchange softening problems and Grade 4 includes problems on lime dosage, mixture problems and calculations for such chemical issues as bicarbonate, carbonate and hydroxide alkalinity. Each grade comes with a sample test and answers and the guide comes with bibliography and resource lists.

- TD482 1-58321-507-7
Minimizing operational interruption during filter bed surveillance.
 Title main entry. Ed. by Stephen Booth et al.
American Water Works Assn., ©2006 91 p. \$209.00 (pa)
 Filtration remains the most important process for maintaining safe drinking water, and examining the filters periodically to make sure they are working well is a critical necessity. This report identifies, selects, evaluates, and provides guidance on methods for assessing filter conditions that are less interruptive than those currently used in the water industry. Methods that interrupt flow less can be applied more frequently and require fewer resources. The team formally tested four methods at operating water plants: conductivity probe, dynamic particle analysis, fiber optic camera, and multi-point head loss probe. There is no index.
- TD657 2006-000885 0-471-72177-8
Stormwater management for land development; methods and calculations for quantity control.
 Seybert, Thomas A.
John Wiley & Sons, ©2006 372 p. \$120.00
 Stormwater can be deadly, and judicious design and management of stormwater systems is an integral part of land development. However, many texts go beyond a working knowledge of algebra, trigonometry and geometry and are thus inaccessible to some decision-makers in the development process. Here Seybert (engineering, The Pennsylvania State U., Wiles-Barre) provides a readable and usable guide to controlling stormwater, focusing on the practical. He begins with elementary fluid properties and basic statics, proceeding to fluid flow, open channel flow and basic hydrology. He explains watersheds, soils, and rainfall, travel time, runoff depth and peak flow and then describes ways of understanding and dealing with stormwater in the field, including the use of hydrographs, routing methods, drainage conveyance and control, and because trouble never runs by itself, multiple-event detention design. Engineers will find this valuable in design but also in helping to explain to non-specialists why stormwater matters.
- TD745 978-1-84339-162-3
Basic principles of wastewater treatment.
 Sperling, Marcos von. (Biological wastewater treatment series; v.2)
IWA Publishing, ©2007 195 p. \$70.00 (pa)
 Sperling (sanitary and environmental engineering, Federal U. of Minas Gerais, Brazil) details the unit operations and processes associated with biological wastewater treatment. The volume is part of the *Biological Wastewater Treatment series*, which is based on the book *Biological Wastewater Treatment in Warm Climate Regions*, which has been updated and separated into smaller books for easier use. Presenting the technologies for urban wastewater treatment as applied to the specific condition of warm temperature is the main objective for the series, with discussion of related implications for design and operation. Technologies discussed can be applied in developing countries. They concentrate on off-site solutions, separate sewerage systems, and urban wastewater and biological treatment processes, while industrial wastewater treatment is not stressed. Topics covered in this volume—which partly serves as an introduction to the other volumes—are microbiology and ecology of wastewater treatment, reaction kinetics and reactor hydraulics, the conversion of organic and inorganic matter, sedimentation, and aeration. The book can be used by professionals and for postgraduate courses in civil and environmental engineering, environmental sciences, and related fields. No index is included. IWA in the UK now publishes many reports formerly published by AWWA Research Foundation (Denver); U.S. distribution by BookMasters.
- TD745 978-1-84339-145-6
Chemical water and wastewater treatment IX; proceedings.
 Gothenburg Symposium (12th: 2007: Ljubljana, Slovenia) Ed. by Hermann H. Hahn et al.
IWA Publishing, ©2007 402 p. \$150.00
 Will we attain the water-related goals of the Millennium Declaration? The Declaration is a worldwide goal, so this is a worldwide collection on the technical, legal, financial and organizational work being done to achieve it. These proceedings from the May 2007 symposium address a water situation that is being reported as being on its way to being under control to clearly deteriorating rapidly. It also addresses the dilemmas imposed by partnerships between public and private organizations, which are fragile at best and yet expected to be part of the solution. Specific papers cover regulations, finance, political influence, chemical wastewater treatment and operational experiences in managing it, sludge treatment and residuals recovery, coagulants and flocculants, coagulation in drinking water treatment, disinfection, membrane filtration, absorption for removal of micro-pollutants and arsenic removal. The editors have provided an index of authors. US Distribution by BookMasters.
- TD745 978-1-84339-161-6
Wastewater characteristics, treatment and disposal.
 Sperling, Marcos von. (Biological wastewater treatment series; v.2)
IWA Publishing, ©2007 292 p. \$70.00 (pa)
 Appropriate for undergraduate courses, this first in a series of six textbooks analyzes the flow and composition of wastewater, explores the impact of discharge into receiving water bodies, describes the most common biological methods for treating wastewater, and outlines the stages of sludge management. The author teaches at the Federal University of Minas Gerais in Brazil. Distributed in the U.S. by BookMasters.
- TD746 978-1-84339-163-0
Waste stabilisation ponds.
 Sperling, Marcos von. (Biological wastewater treatment series; v.3)
IWA Publishing, ©2007 162 p. \$60.00 (pa)
 Von Sperling (Federal University of Minas Gerais) explains the working principles, design, and operation of facultative ponds, anaerobic ponds, and aerated lagoons for treating wastewater. A separate chapter focuses on the removal of pathogenic organisms. The textbook is appropriate for graduate courses in civil engineering and environmental engineering. Distributed in the U.S. by BookMasters.
- TD756 1-84339-165-1
Activated sludge and aerobic biofilm reactors.
 Sperling, Marcos von. (Biological wastewater treatment series; v.5)
IWA Publishing, ©2007 322 p. \$70.00 (pa)
 Sperling (sanitary and environmental engineering, Federal U. of Minas Gerais, Brazil) has broken up the material in his *Biological Wastewater Treatment in Warm Climate Regions* into six smaller books that can be purchased and used more easily. Here he covers all major process technologies and variants of activated sludge and aerobic biofilm reactors, including main concepts, working principles, expected removal efficiencies, design criteria, design examples, construction aspects, and operational guidelines. The books can be used as texts at academic institutions and as references for practicing engineers and scientists. IWA in Britain now publishes many reports formerly published by AWWA Research Foundation (Denver). Distributed in the US by BookMasters.
- TD767 1-84339-166-X
Sludge treatment and disposal.
 Title main entry. Ed. by Marcos von Sperling et al. (Biological wastewater treatment series; v.6)
IWA Publishing, ©2007 241 p. \$70.00 (pa)
 Academic researchers and professionals in the waste water industry in Brazil look at the characteristics of sludge as well as its production, treatment by various methods, and disposal to various places for various purposes. They also consider environmental and health issues. The collection can be used as a textbook in graduate courses in civil engineering, environmental engineering, environmental sciences, and related course. There is no index. It is the final volume in a series that basically reproduces but also updates material in *Biological Wastewater Treatment in Warm Climate Regions* to make the material easier to purchase and use, especially in non-industrialized countries. IWA in Britain now publishes many reports formerly published by AWWA Research Foundation in Denver. Distributed in the US by BookMasters.

If you're looking for *more* Book News reviews and want to receive them *faster*, take a look at BookNews Online to experience the entire Book News database — over 200,000 reviews — with a powerful, friendly search engine. Monthly updates make the site even fresher and more timely than the printed issues. For information, link from our newly revamped website: www.booknews.com, or go directly to www.paratext.com. Trial subscriptions are available.

- TD769 1-84339-164-3
Anaerobic reactors.
 Chernicharo, Carlos Augustos de Lemos. (Biological wastewater treatment series; v.4)
IWA Publishing, ©2007 175 p. \$60.00 (pa)
 Chernicharo (sanitary and environmental engineering, Federal U. of Minas Gerais, Brazil) details the fundamentals of anaerobic treatment, its applicability, microbiology, biochemistry, and main reactor configurations, with emphasis on both theory and practice. The aim for the series is to present the technologies for urban wastewater treatment as applied to the specific condition of warm temperature, with related implications for design and operation. Technologies discussed can be applied in developing countries, and they focus on off-site solutions, separate sewerage systems, and urban wastewater and biological treatment processes. Industrial wastewater treatment is not emphasized. Topics covered in this volume include major technologies, principles, expected removal deficiencies, design criteria and examples, construction aspects, and operational guidelines. The book is meant for professionals and for use in postgraduate courses in civil and environmental engineering and environmental sciences. It is part of the Biological Wastewater Treatment series, which is based on the book *Biological Wastewater Treatment in Warm Climate Regions*, which has been divided up into smaller books for easier use, and updated. It lacks an index. IWA in the UK now publishes many reports formerly published by AWWA Research Foundation (Denver); U.S. distribution by BookMasters.
- TD794 2007-397105 92-64-02957-5
Improving recycling markets.
 Title main entry.
OECD, ©2006 186 p. \$47.00 (pa)
 This report presents the results of an OECD project, "Improving Recycling Markets," which analyzed non-environmental market failures in markets for secondary recycled materials (wastepaper, plastic bottles, and metal scrap). The project focused on "classic" industrial market failures and barriers such as information failures, technological externalities, market power, and transaction costs. This report collects five papers prepared as contributions to the project. After an overview of market failures and barriers in markets for potentially recyclable materials, there are three case studies on used lubricating oils, used plastic packaging, and used rubber tires. The report concludes with a discussion of public policy implications. There is no subject index.
- TD879 978-0-470-02577-2
Bioavailability, bioaccessibility and mobility of environmental contaminants.
 Dean, John R. (Analytical techniques in the sciences)
John Wiley & Sons, ©2007 292 p. \$170.00
 Expanding upon techniques for environmental analysis he described in two previous books, Dean (inorganic and analytical chemistry, Northumbria U.-Newcastle) focuses on assessing the bioavailability and bioaccessibility of metal and persistent organic pollutants in environmental samples. He begins by discussing the link between contaminated land and human health. Then he details sample preparation and analytical techniques, and explores methods of using the findings to assess bioavailability and bioaccessibility. The series offers texts for course work or individual study.
- TD883 978-1-84564-067-5
Air pollution XV; proceedings.
 International Conference on [Title] (15th: 2007: Algarve, Portugal) Ed. By C.A. Borrego and C.A. Brebbia. (WIT transactions on ecology and the environment; v.101)
WIT Press, ©2007 597 p. \$355.00
 Papers from an April conference reveal the latest advances in air pollution modeling, air quality management, emission studies, monitoring and laboratory studies, aerosols and particles, climate change and air pollution, environmental health effects, and indoor pollution. Specific subjects discussed include air pollution and child respiratory diseases in Portugal, optimizing the prediction models of air quality in cities, air quality management in various countries, and wood processing as a source of terpene emission compared to natural sources. Other topics under discussion include simulation of fuel consumption and emissions in typical traffic circumstances in Belgium, atmospheric volatile organic compounds in a Portuguese mountain region, and generation of monodisperse aerosols through condensation nuclei control. There is no subject index. The US office of WIT Press is Computational Mechanics.
- TD883 2007-002586 978-0-8031-5524-4
ASTM standards on indoor air quality, 2007 3d ed.
 Title main entry.
ASTM International, ©2007 627 p. \$165.00 (pa)
 This reference for air quality professionals presents all of the standards currently under the jurisdiction of ASTM Subcommittee D22.05 on Indoor Air, which establishes consistent methods for the sampling and analysis of indoor air and for the interpretation of results from those measurements. The 55 standards provide guidance on determining volatile organic chemicals in the atmosphere, inspecting water systems for legionellae, measuring asbestos concentration by TEM, and assessing backdraft from vented combustion appliances. The third edition updates 20 of the standards.
- TD885 2006-025005 978-0-8138-0207-7
Carbon capture and sequestration; integrating technology, monitoring, and regulation.
 Title main entry. Ed. by Elizabeth J. Wilson and David Gerard.
Blackwell Publishing, ©2007 269 p. \$179.99
 Carbon capture and sequestration basically consists of capturing carbon dioxide emitted from power plants or other industrial sources, transporting to a sequestration site, and then injecting and storing it in either subterranean or seabed geological formations. This technology, suggest Wilson (energy and environmental policy and law, U. of Minnesota) and Gerard (engineering and public policy, Carnegie Mellon U.) is both technologically feasible and commercially viable and has the potential to allow humanity to continue to use fossil fuels while simultaneously diminishing carbon emissions that are responsible for global climate change. In this volume they present 11 chapters that first describe the technological challenges of carbon capture and sequestration and then place them in the larger societal context of legal, regulatory, and societal acceptance factors. Technical issues addressed include modeling and simulation of physico-chemical processes of CO₂ storage; monitoring, risk assessment and management; and potential impacts of leakage and seepage. Public policy issues explored include cost calculation, US regulatory issues, public perception, and siting issues.
- TD885 2006-022663 978-1-84593-189-6
Greenhouse gas sinks.
 Title main entry. Ed. by David S. Reay et al.
CABI Publishing, ©2007 290 p. \$160.00
 The editors (of the U. of Edinburgh's School of GeoSciences and the U. of Lancaster's Lancaster Environment Center, UK) present 17 chapters reviewing the science of sinks for carbon dioxide, methane, and nitrous oxide, the three main anthropogenic greenhouse gases thought to be responsible for rising global temperatures. Chapters describe the characteristics of ocean, vegetation, soil, and geological sinks. They consider carbon synthesis as a form of artificial sink and assess the prospect for biological carbon sinks in greenhouse gas emissions trading systems. Sinks particularly suited to each of the main gases are reviewed. The final two chapters examine the impact of atmospheric nitrogen deposition on the exchange of carbon dioxide, nitrous oxide, and methane from European forests and discuss crosscutting issues and new directions. Distributed in the US by Oxford U. Press.
- TD890 978-3-527-31595-6
The MAK-collection for occupational health and safety, part 1: MAK value documentations; v.23.
 Title main entry. Ed. by Helmut Greim.
Wiley-VCH, ©2007 301 p. \$200.00
 Members of the Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area provide documentation for the established maximum workplace concentrations (MAK values) of selected occupational toxicants, among them antimony, tungsten, and cyfluthrin. Two of the toxicants are fluid components specific to metal working. The MAK list is introduced and its sections detailed in the first volume of the series, which is available in German or English. The index is cumulative for the series.

WHO guidelines for the safe use of wastewater, excreta and greywater, 3d ed; 4v.

Title main entry.

World Health Organization, ©2006 618 p. \$107.10 (pa)

The third edition of the guidelines presents updated methods and information reflecting new research and attention to pathogens, chemicals, changes in sanitation and populations, new methods for risk evaluation, social equity issues, and sociocultural practices. For ease of use, the guidelines are grouped into four main topics, each in a separate volume: policy and regulatory aspects, wastewater use in agriculture, wastewater and excreta use in aquaculture, and excreta and greywater use in agriculture. The guidelines, designed to alleviate poverty and hunger and promote environmental sustainability, are written for those involved in national policy making and regulation. A glossary and list of references are contained in each volume. The volumes are clearly organized and informative; they are not indexed. Each of the four volumes has its own price and ISBN and can be purchased individually: Volume 1: Policy and Regulatory Aspects (9789241546829); Volume 2: Wastewater Use in Agriculture (9789241546836); Volume 3: Excreta and Greywater Use in Aquaculture (9789241546843); Volume 4: Excreta and Greywater Use in Agriculture (9789241546850).

TD930 2006-922436 1-892769-51-4

Animal agriculture and the environment; National Center for Manure & Animal Waste Management white papers.

Title main entry. Ed. by J. M. Rice et al.

Am.Soc/Agricultural Engineers, ©2006 776 p. \$56.00 (pa)

This volume collects 26 white papers produced by the National Center for Manure and Animal Waste Management, a US government/academia collaborative project focused on "the development and dissemination of knowledge and technology for sustainable, profitable and internationally competitive animal production that also protects community interests and environmental quality." The papers collectively assess the state of the science for animal waste management. Examples of issues addressed include ammonia emissions from animal feeding operations, barriers to adoption of animal waste management strategies, the relationship between contracting and livestock waste pollution, health effects of aerial emissions from animal production and waste management systems, manipulation of animal diets to affect manure, legal structures governing animal waste management, land application of manure for beneficial reuse, remediation techniques for mature nutrient loaded soils, treatment lagoons for animal agriculture, and odor mitigation for concentrated animal feeding operations.

TD1030 2006-016758 1-60021-257-3

Hazardous materials and wastewater; treatment, removal and analysis.

Title main entry. Ed. by Allison A. Lewinsky.

Nova Science Publishers, ©2007 375 p. \$98.00

This volume compiles research on hazardous materials and wastewater in 10 chapters. They cover electrochemical treatment of Cr-containing aqueous solutions, biosorption and bioaccumulation of toxic metals in environmental pollution control, the utilization of agro-residues in metal ions removal, using clays for removal, eco-friendly technologies, advanced oxidation processes, fly ash based adsorbents, and other removal techniques. The international group of contributors work in the fields of chemistry and biochemistry, environment safety, chemical engineering and technology, and other disciplines.

TD1054 2006-030121 1-60021-452-5

Focus on hazardous materials research.

Title main entry. Ed. by Leonora G. Mason.

Nova Science Publishers, ©2007 234 p. \$129.00

This volume collects a diverse half dozen papers describing recent research into hazardous materials and their management. Topics addressed include treatments of hazardous aluminum dust residue from the secondary aluminum industry; quantitative risk assessment of industrial processes; recent trends in red mud and paper mill sludge treatment and reuse for the recovery of contaminated soils, sediments, and waters; photochemical removal of N₂O in N₂ or air by excimer laser at atmospheric pressure over a wide N₂O concentration range; seaweeds for engineering metal biosorption; and sensors of chemical risk.

ROADS, RAILROADS

TE250 83-641658 0-8031-4110-6

Annual book of ASTM standards 2006; section 4: Construction; v.3; Road and paving materials; vehicle-pavement systems.

Title main entry.

ASTM International, ©2006 1438 p. \$140.00 (pa)

Accomplishing its work through the efforts of volunteer members throughout the world, ASTM uses a consensus process and 138 standards-writing committees to develop technical standards for a variety of materials, products, systems, and services. These are updated regularly and published in the *Annual Book of ASTM Standards*, which currently comprises 78 volumes. Volume 04.03 contains construction standards relating to road and paving materials, and to vehicle-pavement systems.

TE250 2007-010741 978-0-8031-5521-3

Pavement surface condition/performance assessment; reliability and relevancy of procedures and technologies.

Title main entry. Ed. by Bouzid Choubane. (STP; 1486)

ASTM International, ©2007 80 p. \$55.00 (pa)

Articles from the ASTM symposium of the same name in Washington DC in December 2004, give new insights into the methods of measurement, means of data collection and analysis and diagnosis of pavements. Topics include an automatic pavement surface distress inspection system, a method of analysis of error in pavement ground truth indicators for evaluating the accuracy of automated image collection and analysis systems, a means of analysis of surface inertial profiles measures on jointed Portland cement pavements, the development of a pavement smoothness index relationship, harmonization of macrotexture measuring devices, methods of measuring pavement friction characteristics at variable speeds for added safety, and a realistic approach for enhancing the reliability of pavement surface friction testing.

TF25 2006-028780 978-0-7603-2685-5

Long Island Rail Road.

Fischler, Stan. Ed. by Andrew J. Sparberg. (MBI railroad color history)

Voyageur Press, ©2007 160 p. \$36.95

This volume is an illustrated history of the Long Island Rail Road from its origins in 1832 to the present, and incorporates photos, route maps, print ads, and timetables. Detailed are the mergers, consolidations, and competitors of the railroad, Penn Station's construction and demise, tunnels, diesel and electric rolling stock, and passenger cars. There is no bibliography. Fischler is a writer, former color analyst for the New York Islanders, and a subway and railroad enthusiast.

TF145 978-1-877058-42-4

Comeng, a history of Commonwealth Engineering; v.1: 1921-1955.

Dunn, John.

Rosenberg Publishing, ©2006 316 p. \$59.95

The author spent much of his career with Comeng (or, Commonwealth Engineering) and has devoted much of his retirement time to compiling a history of the company, assembling it from interviews with hundreds of key ex-employees, because archives and records were lost when the company closed in 1989. When complete, the company's history, will offer a window to Australia's industrial and manufacturing development over a span of 70 years. This first volume covers the company's inception as a small firm building custom bodies for cars and buses, and follows its development through the post-war years as it became a major manufacturer of double-deck buses, freight wagons, railcars, and passenger railway vehicles. The book is abundantly illustrated with b&w photos, and a few in color.

TG300 2006-048203 978-0-393-73136-1

Bridges. (CD-ROM included)

Cleary, Richard Louis. (Norton/Library of Congress visual sourcebooks in architecture, design, and engineering)

W.W. Norton, ©2007 383 p. \$75.00

Drawing his material from the collections of the Library of Congress, Cleary (architecture, U. of Texas at Austin) offers a broad survey of bridge construction in the United States. With the exception of a some brief essays discussing the role of bridges in American transportation, types of bridge design, and the need for bridge preservation programs, the vast bulk of the material consists of 919 captioned illustrations (primarily black and white photographs) depicting beam bridges, arch bridges, truss bridges, movable bridges, and suspension and cable-stayed bridges around the country. The CD-ROM reproduces all of the images found in the text.

TH100 978-1-889892-72-6
Builder's guide to stucco; lath & plaster. (CD-ROM included)
 Schwartz, Max.
Builder's Book, Inc., ©2007 284 p. \$49.95 (pa)
 Starting with the basics about stucco (also known as Portland cement plaster) and a residential stucco application checklist, a consulting civil engineer/instructor offers definitions, how-to tips, and cautions on topics in outline form from masonry construction to refinishing. The guide includes diagrams, a troubleshooting summary table, glossary, resources, references, overview of cement manufacture, construction codes and specifications, and safety guidelines. The complete book is on the companion CD-ROM for quick searching. Distributed by Craftsman Book Company.

TH145 2006-028489 978-0-471-71405-7
Olin's construction; principles, materials, and methods, 8th ed.
 Simmons, H. Leslie.
John Wiley & Sons, ©2007 1213 p. \$110.00
 It's been 50 years since Olin first prepared this cornerstone reference for the construction industry; the book now bears his name at the head of the title, but seasoned construction consultant and specifications writer H. Leslie Simmons is now the author. Some 1,200 illustrations (150 new to this edition) support the information on the practicalities from site preparation to building design and everything entailed in construction including concrete finishing, plastic fabrications, heat and air, waterproofing, sprinkler systems...; you name it, it's covered. This edition reflects the expanded adoption of the ICC codes and includes new information on sustainability and construction management.

TH153 2006-030752 978-0-471-47943-7
Construction dewatering and groundwater control; new methods and applications, 3d ed.
 Title main entry. Ed. by J. Patrick Powers et al.
John Wiley & Sons, ©2007 638 p. \$175.00
 Having changed the title to reflect the growing use of methods for dealing with groundwater on construction projects besides straight-forward dewatering, the authors present the third edition of a text originally titled *Construction Dewatering—New Methods and Applications*. Following an introduction to the origins and developments of dewatering technology, they offer chapters discussing, among other topics, the geology of soils; hydrology of the ideal aquifer; characteristics of natural aquifers; groundwater modeling, measurement, and monitoring; pumping tests; pump theory; groundwater chemistry, bacteriology; contaminated groundwater; and piping systems. They then turn to the practice of groundwater control and dewatering in chapters discussing method choice; sumps, drains, and open pumping; deep well systems; wellpoint systems; ejector systems and other methods; groundwater cutoff structures; grouting methods; dewatering and groundwater control for soft ground tunneling; ground freezing; artificial recharge; electrical design for dewatering systems; long-term dewatering systems; dewatering costs; and dewatering specifications, allocation of risk, dispute avoidance, and resolution of disputes.

TH420 2007-009080 978-0-7844-0884-1
Seismic rehabilitation of existing buildings.
 Title main entry.
Am. Society of Civil Engineers, ©2007 411 p. \$160.00 (pa)
 The Structural Engineering Institute of the American Society of Civil Engineers presents their nationally applicable standards for the seismic rehabilitation of buildings, together with commentary explaining the presented technical requirements. Covering both the overall structure of a building and nonstructural components, the standards are arranged such that four analysis procedures can be used: linear static procedure, linear dynamic procedure, nonlinear static procedure, and nonlinear dynamic procedure. In presenting the standards, both the International System of Units and customary units have been employed.

TH880 2006-026647 978-0-471-74917-2
Sustainable commercial interior design.
 Bonda, Penny and Katie Sosnowchik.
John Wiley & Sons, ©2007 305 p. \$70.00
 Bonda (*Interior Design* magazine) and Sosnowchik *green@work* magazine) offering designers and architects an introduction to the evolving discipline of sustainable design in commercial interior spaces. The book is organized around the LEED Green Building Rating System, with chapters on design processes for sustainable sites, water efficiency, energy issues, materials, and indoor environmental quality. There is also information on costs, and on green design tools such as standards and certification. A final chapter presents 12 case studies from around the US, and color photos give examples on almost every page. A glossary and a list of print and nonprint resources are also included. The book is for both novice and veteran green-minded practitioners.

TH1096 2006-031634 978-0-7844-0893-3
The New Orleans hurricane protection system; what went wrong and why.
 Title main entry. Ed. by the American Society of Civil Engineers Hurricane Katrina External Review Panel.
Am. Society of Civil Engineers, ©2007 84 p. \$29.00 (pa)
 This report, from the American Society of Civil Engineers Hurricane Katrina External Review Panel, describes what went wrong with the levee system during Hurricane Katrina, focusing on the devastation to New Orleans and southeast Louisiana. At its request, the panel reviews the work of the US Army Corps of Engineers Interagency Performance Evaluation Taskforce. The report details a variety of problems with the levees, including direct physical causes and contributing factors to the hurricane protection system failures. They provide details about New Orleans and the hurricane, the protection system, how the levees failed, the human, financial, and cultural impacts, and direct causes and contributing factors such as overestimation of soil strength, water-filled gaps, inoperable pump systems, and under-appreciated risk to the city. They end with a number of calls to action relating to lessons learned from the disaster. Many color photos are incorporated. The intended audience is scientists, engineers, and laypeople. There is no index.

TH2031 2006-009368 0-471-76090-0
Planning and urban design standards, student ed.
 Steiner, Frederick and Kent Butler.
John Wiley & Sons, ©2007 436 p. \$85.00 (pa)
 Steiner and Butler (architecture, research, and planning, U. of Texas at Austin) present a student edition of a text on planning and urban design standards, derived from the full edition published in 2006. It contains information aimed at planning students and presents widely-used and emerging standards relating to types of plans, environmental factors and hazards, building types, and transportation planning, and is meant to serve as a reference, not a main text, for planning courses in architecture, landscape architecture, geography, civil engineering, environmental studies, and public administration programs. Analysis and implementation techniques are also covered. Many b&w illustrations are incorporated throughout.

TH3411 978-1-84564-085-9
Structural studies, repairs and maintenance of heritage architecture X; proceedings.
 Int'l Conference on Studies, Repairs and Maintenance of Heritage Architecture (10th: 2007: Prague) Ed. by C.A. Brebbia. (WIT transactions on the built environment; v.95)
WIT Press, ©2007 710 p. \$475.00
 After hundreds of generations of tearing down the past or just building on top of it, many cultures are now devoting both money and effort into sustaining historical architecture and heritage spaces. But how can they make up for lost time? This collection reflects that relatively new interest with case studies and essays that range from the theoretical to the completely practical, giving architects, developers and policy makers the good news that their peers are serious about conservation. Topics include heritage architecture worldwide and the tourism and other activities it attracts, including reports from Mexico, Japan and Atlanta, regional architecture in Asia and elsewhere, non-destructive evaluation techniques of masonry structures including the sonic pulse velocity method, material characterization, repair and maintenance, including that on medieval beams, preservation and prevention, structural issues, simulation and modeling, and seismic vulnerability. The US office of WIT Press is Computational Mechanics.

- TH4311 978-0-393-73231-3
Building the Empire State. (reprint, 1998)
 Title main entry. Ed. by Carol Willis.
 W.W. Norton, ©2007 190 p. \$19.95 (pa)
 This reprint from 1998 reproduces *Notes on Construction of Empire State Building*, which describes the building's construction process and was compiled in 1930 or 1931 from daily records. Authorship of the notebook is unknown and it is reproduced in facsimile form. Photos from the notebook have been enlarged, and Friedman, a structural engineer, has written longer captions aimed at the general reader. In the accompanying essays, Friedman summarizes the building through the builders' eyes, and Willis, founder and director of The Skyscraper Museum in New York City, discusses its construction and design.
- TH4860 978-0-9773343-1-5
Building with awareness; the construction of a hybrid home. (DVD included)
 Owens, Ted.
 Synchronos Design, Inc., ©2006 151 p. \$42.00 (pa)
 This is a guide to building a straw bale solar home. The work is illustrated with photos of a single project as it develops from start to finish and contains advice on design, breaking ground, installing a rainwater cistern, using adobe, straw bale walls, the electrical system, windows and insulation, earth plaster, and finish work. The DVD is structured along identical lines and contains some five hours of videos and narrated slide shows revealing additional construction details. Distributed in the US by New Society Publishers.
- TH9025 978-1-84564-086-6
The art of resisting extreme natural forces; proceedings.
 International conference on the Art of Resisting Extreme Natural Forces (2007: The New Forest, UK) Ed. by S. Hernández and C.A. Brebbia.
 (WIT Transactions on engineering sciences; v.58)
 WIT Press, ©2007 121 p. \$90.00
 This collection, representing papers offered at the July 2007 conference, provides current information on innovations and new techniques. International contributors cover building bridges that span the equivalent of fjords, improving the analysis of long-span bridge flutter, making the most of seismic analysis, taming wind storms, reducing the risk of snow load, reducing cross-winds for trains and cars, managing a notorious lake for sustainability, keeping fire in its place in historical areas, modifying stainless steel beams in case of fire, the storage of ammonia safe under extreme forces, and assessing the performance of early warning systems. The US office of WIT Press is Computational Mechanics.
- TH9119 2006-032569 978-1-59370-104-8
The fire chief's toolbox.
 Graner, Ron.
 PennWell Books, ©2006 276 p. \$49.00
 Graner describes professional issues that are faced by new fire chiefs and ways they can address these issues. He outlines career preparation, finding positions and researching them, the application and selection process, and dealing with issues on the job, such as human resources, politics, budgets, and management. He also recounts lessons he learned at different stages of his career and tools relating to family and personal values. Graner, a former fire chief, is a public safety consultant and peer assessor for the Commission on Fire Accreditation International of the Center for Public Safety Excellence.
- TH9158 2006-028554 978-1-59370-075-1
From buddy to boss; effective fire service leadership.
 Sargent, Chase.
 PennWell Books, ©2006 396 p. \$59.00 (pa)
 Sargent, a fire service veteran, provides a guide to leadership and management for those transitioning from firefighter to officer. Based on his experiences and that of others, he outlines the details he wishes he had known, including the organizational foundation for leadership, people skills, tips on being a leader, maintaining education and training, understanding and enforcing policy, evaluating and compensating people, prejudice, diversity, sexual harassment, anger and violence in the workplace, decision-making, accountability and responsibility, planning, teams, and change.
- TH9336 2006-921717 978-0-87765-685-2
Automatic sprinkler and standpipe systems, 4th ed.
 Bryan, John L.
 Natl. Fire Protection Assn., ©2006 887 p. \$88.00
 Aimed at fire protection engineers and students, this volume provides an overview of the basic concepts and principles involved in the design, installation, and function of automatic sprinkler and standpipe systems. The fourth edition has been updated to reflect developments in automatic sprinkler technology and design since the publication of the third edition in 1997. B&w photographs and diagrams accompany the text throughout. Bryan is Professor Emeritus in the Department of Fire Protection Engineering at the U. of Maryland.
- TH9445 2007-003033 978-1-59370-076-8
Elevator and escalator rescue; a comprehensive guide.
 Jarboe, Theodore Lee and John O'Donoghue.
 PennWell Books, ©2007 268 p. \$59.00
 Nervous jokes aside (such as "It is not the fall but the sudden stop at the end"), elevators and escalators pose particular problems to first responders, whether the cause is malfunction, human v. machine or fire. Jarboe and O'Donoghue, elevator and escalator rescue specialists for nearly 80 years, provide fire and technical rescue personnel the information necessary to perform successful rescues. They cover elevator systems (including traction and hydraulic elevators), doors, interlocks, restriction devices, hallway and lobby features, car interior components and finish, freight elevators and dumbwaiters, new technologies, safety features and principles, tools and equipment, special devices, emergency access, passenger entrapment and pinned victims, rescues of victims of elevator falls and fires, and training methods for safe operations. Escalators also receive their full coverage, including systems, features, rescue methods and equipment. The next edition will no doubt provide clearer photographs.
- TH9446 2007-015616 978-0-8031-5684-5
ASTM fire standards and related technical material, 2007 7th ed.; 2v.
 Title main entry.
 ASTM International, ©2007 4067 p. \$365.00
 Contained in two fat volumes, the ASTM fire standards are presented together with ASTM guides, practices, specifications, and terminologies. Additional, non-ASTM material is also included, namely 7 technical bulletins issued by the California Bureau of Home Furnishings and Thermal Insulation; 16 CFR test methods issued by the Consumer Product Safety Commission; and the FM Global fire test methods. Of the 248 ASTM standards presented, 167 are test methods. Each of the standards and related materials are presented in full, with tables, diagrams, and drawings as appropriate. The table of contents is organized by ASTM or other standard code. Vol. 2 contains a detailed subject index for the ASTM standards.
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- MECHANICAL ENGINEERING & MACHINERY**
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- TJ163 2006-024895 0-8493-1730-4
Handbook of energy efficiency and renewable energy.
 Title main entry. Ed. by Frank Kreith and D. Yogi Goswami.
 (Mechanical engineering series)
 CRC / Taylor & Francis, ©2007 — p. \$169.95
 The 28 contributions in this engineering handbook outline strategies for conserving energy in commercial buildings, residences, and manufacturing plants, and describe technologies and generating and storing energy from renewable sources. Topics include HVAC control systems, compact heat exchangers, cogeneration, concentrating solar thermal power, biomass conversion processes, geothermal power generation, and fuel cells. The opening chapters discuss current energy policies, economic assessment methods, the outlook of U.S. energy markets, the next generation of coal and nuclear power plants, and threats to infrastructure security.

TJ163 2006-041283 0-88173-544-2

Managing energy costs; a behavioral and non-technical approach.

Eggink, John.
Fairmont Press, ©2007 274 p. \$89.96

Eggink details management techniques for reducing energy expenses within an organization. He uses examples from different companies to demonstrate the techniques and outlines methodologies, as well as problems to avoid. He describes characteristics of electricity that increase costs, how attitudes influence consumption, common myths, the effect of employee behavior, the financial impact of managing behavioral aspects of energy consumption, the environmental impact, and critical success factors. The reference section lists low cost and no cost actions for different types of facilities and equipment, and includes facts, quotes, and tidbits about energy awareness. Eggink works with executives at organizations to help them reduce energy costs. Distributed by Taylor & Francis.

TJ163 2007-271422 1-58603-649-1

Policies for improving energy efficiency in the European housing stock.

Sunikka, Minna Marjaana. (Sustainable urban areas; 9)
IOS Press, ©2006 251 p. \$81.00 (pa)

Citing a clear linkage between domestic energy consumption and anthropogenic climate change, this study aims to provide information to national governments in the European Union on how to improve sustainable building policies for energy efficiency so as to increase carbon reductions in the existing housing stock. It reviews current policies in the Netherlands, Germany, France, Finland, and the UK and discusses the societal response to such policies. It also explores the possibilities for stronger policy approaches that might use legislation, fiscal instruments, and information to help improve energy efficiency and discusses means by which social housing providers can improve their energy efficiency policies.

TJ211 2007-010554 978-1-934015-02-5

Robotics. (CD-ROM included)

Title main entry. Ed. by Appin Knowledge Solutions.
Infinity Science Press, ©2007 343 p. \$59.95

Written by the technical team at Appin Knowledge Solutions (a Texas company that "develops software and training products in areas such as information security, nanotechnology, and robotics"), this volume provides a broad introduction to the field of robotics while emphasizing industrial and engineering applications. Chapters describe fundamental robotic electronics; kinematics, mathematical modeling, and control of wheeled mobile robots; kinematics of robot manipulators; types of robot sensors; and fundamentals issues of legged robots, including static and dynamic balance, inverse pendulum model, and the kinematics of leg design. The CD-ROM contains MATLAB simulations, color versions of the figures from the text, tutorials, and a three-dimensional CAD data to MATLAB converter.

TJ213 2006-102035 978-0-470-02963-3

Foundations of fuzzy control.

Jantzen, Jan.
John Wiley & Sons, ©2007 209 p. \$100.00

With its tutorial format and sympathy for the novice, this introductory text takes into consideration the wide range of consumer, industrial and financial applications in its examples and case studies. It systematically analyzes several fuzzy proportional-integral-derivative (PID) control systems and state space control and also takes on self-learning control mechanisms while covering fuzzy reasoning, fuzzy control, linear and non-linear fuzzy PID control, stability analysis by describing functions, and supervisory control. One of the best features is a simulation study of a car-ball balancer in which readers design a crisp PID controller and then replace it with a linear fuzzy, then a non-linear, and fine-tune the result.

Prices are U.S. "list." They may vary outside the U.S. Bookstores, jobbers, or the presses will fill orders. Do not order books from Book News Inc.

TJ217 2006-920171 1-58603-595-9

Intelligent autonomous systems 9; IAS-9.

International Conference on Intelligent Autonomous Systems (9th: 2006: Tokyo, Japan)
IOS Press, ©2006 1044 p. \$204.00

These proceedings of the 2006 conference includes all 122 papers presented as well as papers from all five guest speakers, covering such topics as intelligent wetware, robotics for legged machines, real world informatics environment systems, and the relationship between human motion analysis and robotic learning approaches. Topics of the presented papers include navigation and motion planning, tracking control and active vision, localization, multi-agent robots, network agent systems, evolution and learning, adaptation, emergent synthesis such as hormone-inspired adaptations, dynamics, morphology, materials in intelligent behavior, intelligent mobility, including a modular robot that self-assembles, "RoboCup," including developing reliable standing-up mechanisms for a humanoid robot, real world information systems, humanoid robots, service robotics and human support, human behavior analysis, mutual adaptation among people and machines and women in robotics and human science. The result is massive but so is the discipline and interest in academia and industry.

TJ217 2006-933008 1-58603-675-0

Integrated intelligent systems for engineering design.

Title main entry. Ed. by Xuan F. Zha and R.J. Howlett. (Frontiers in artificial intelligence and applications; v.149)
IOS Press, ©2006 409 p. \$138.00

One of the natural consequences of the engineering of artificial intelligence is that the result would benefit engineering itself. Here contributors affirm that combining intelligent paradigms such as knowledge-based systems, fuzzy logic, neural networks, and soft computing is a good way to create even more efficient systems. They provide students and practitioners the groundwork, including articles on directed mutation, algebraic structures as measures of comparison, the design of fuzzy models through particle swarm optimization, and Bayesian methodologies for estimating the uncertainty of decisions in safety-critical systems. A second section details the techniques, frameworks, tools and standards for hybrid systems, including ways to reuse software and to quantify customer preference through data mining, architectures for collaborative systems and optimization of cost estimation. Nine applications follow, ranging from combinations of artificial neural network meta-models and information theory to designs for automatic retrieval systems and the cabling on bridges.

TJ217 2006-027714 978-1-59904-063-9

Semiotics and intelligent systems development.

Title main entry. Ed. by Ricardo Gudwin and João Queiroz.
Idea Group Publishing, ©2007 352 p. \$94.95

Semiotics is concerned with the study of meaning processes and communication practices within the fields of natural and social sciences, linguistics, and philosophy and is increasingly making inroads into the field of computer science. The editors (both of the Department of Computer Engineering and Industrial Automation, School of Electrical and Computer Engineering, State University of Campinas, Brazil) of this collection feel that computational semiotics is a maturing field that could become the basic operational theory and method within artificial intelligence and intelligent systems research. They present 12 papers written by philosophers, cognitive scientists, computer scientists, and engineers that they believe are representative of current research in computational semiotics. The contributions range from philosophical ruminations on the nature of intelligence to claims to be implementing semiotics concepts in intelligent systems.

TJ220 2006-033665 978-1-905209-35-4

Analysis and control of linear systems.

Title main entry. Ed. by Philippe de Larminat.
ISTE Ltd., ©2007 543 p. \$240.00

This work collects research on the theory of continuous-state automated systems whose inputs, outputs, and internal variables, such as temperature and speed, can vary in a continuous manner. Part I looks at control of signals and linear systems, with chapters on input-output and state representations, discrete time systems, structural properties of linear systems, deterministic and statistical models of signals, and the fundamental theoretical tools of state stabilization and estimation. Part II overviews the different approaches to control, with chapters on analysis and synthesis by classic monovariabile techniques, predictive control, and automatic control engineering. A final chapter covers linear time-variant systems. Larminat was a professor at IRCCYN, Nantes, France. The book was first published in France in 2002 by Hermès Science/Lavoisier, and entitled, *Analyse des systèmes linéaires et Commande des systèmes linéaires*. It is distributed in the US by the Independent Publishers Group.

- TJ254 2006-038163 978-1-57444-640-1
Applied combustion, 2d ed.
 Keating, Eugene L. (A series of textbooks and reference books)
 CRC Press, ©2007 657 p. \$139.95
 Keating, an energy and environmental engineering consultant, offers abroad introduction to the engineering principles of chemical energy conversion. The book presents a thermochemical overview of current and potential solid, liquid, and gaseous natural and synthetic fuel resources, and describes the fuel-engine interface characteristics of important external and internal combustion heat engines in terms of fuel compatibility, consumption rates, pollution characteristics, emission controls, and energy conversion efficiencies. Data and design formulations appear in dual SI and English engineering dimensions and units. This second edition is reorganized for continuity, and includes an expanded discussion of chemical equilibrium, and a new section on fuel cells. There is additional coverage of environmental aspects of specific combustion characteristics, and a new chapter on thermal destruction. The chapter on chemical kinetics of combustion now includes a presentation of the important nitrogen-oxygen reaction system.
- TJ808 978-1-84564-082-8
Energy and sustainability; proceedings.
 International conference on Energy and Sustainability (2007: Wessex, UK) Ed. by C.A. Brebbia and V. Popov. (WIT transactions on ecology and the environment; v.105)
 WIT Press, ©2007 438 p. \$289.00
 This collection of papers from the June 2007 conference includes reports current technologies and strategies applied in different parts of the world, with contributors from the energy and industrial sectors as well as governmental and non-governmental organizations and other experts on sustainability. General topics range from energy resources (including micro co-generation with a price-variable heat storage switch and clean energy saving) to energy efficiency (including several innovative systems), energy and life cycle analysis (including the use of the technique in wind turbines), energy and the environment (including new research on fuel cells and preparing for seismic events), energy and the built environment (including creating double roofs), renewable technologies, computer modeling, nuclear fuels, hydrocarbon exploration and recover, and energy markets and policy. The US office of WIT Press is Computational Mechanics.
- TJ810 2005-030489 978-1-59454-631-0
Recent developments in solar energy. (CD-ROM included)
 Title main entry. Ed. by Tom P. Hough.
 Nova Science Publishers, ©2007 368 p. \$129.00
 This book/CD-ROM package compiles 11 examples of recent research from around the world on solar energy, in areas such as models for estimating solar radiation from surface meteorological data, electrochromic materials, crystalline silicon thin-film solar cells, single-layer solar selective coatings, and soft chemical routes for producing metal oxide films for solar energy applications. Other topics examined include the influence of built-in fields on the efficiency of monocrystalline solar cells, the performance and degradation of copper indium diselenide modules under outdoor conditions, and the potential of enhanced light trapping in tandem micromorph silicon solar cells. At least two of the chapters suffer from rough translation. Editor information is not given, and information about the CD-ROM was not provided to reviewers.
- TJ820 978-0-86341-449-7
Wind power integration; connection and system operational aspects.
 Fox, Brendan et al. (IET power and energy series; 50)
 IET, ©2007 276 p. \$99.00
 The European Union (EU) has set challenging objectives for the implementation of wind power in the next few years, with an "aspirational goal" of about 20 percent by 2020. This gives EU member states incentives to study, install and maintain sustainable wind power programs with the attendant worries about whether their climate can sustain wind power across their geography and how other sources of energy will be affected. The authors provide an accessible introduction to policy makers and technical staff wanting information about the perceived need for wind power, system fundamentals, the various technologies and applications, operation of systems, forecasting and markets. Particularly interesting is the information on integrating wind power into a traditional energy system. Distributed in the US by Books International.
- TJ853 978-1-59693-138-1
Adaptive cooling of integrated circuits using digital microfluidics.
 Charkrabarty, Krishnendu et al. (Artech House Integrated Microsystems)
 Artech House, ©2007 203 p. \$89.00
 For students and researchers, this book covers alternative cooling architectures based on a new digital microfluidic platform which uses electrowetting and allows for discrete droplets of liquid to be independently moved along a substrate. This technology has been modified to be used as a reconfigurable, adaptive cooling platform. Coverage is of thermal management of integrated circuits, cooling devices for integrated circuits, adaptive hot-spot cooling principles and design, technology development, thermal effects of digital microfluidic devices, flow-through-based adaptive cooling, and programmable thermal switch-based adaptive cooling. Only a basic knowledge of fluid dynamics and a general knowledge of integrated circuit and microprocessor design is needed. Chakrabarty is a professor of electrical and computer engineering at Duke University. Philip Y. Paik is a microfluidics design engineer, and Vamsee K. Pamula is affiliated with a company that uses the digital microfluidic platform to develop products in diagnostics and other applications.
- TJ1075 2006-278635 0-8493-2095-X
Handbook of lubrication and tribology; v.1: Application and maintenance, 2d ed.
 Title main entry. Ed. by George E. Totten.
 CRC / Taylor & Francis, ©2006 — p. \$249.95
 Sponsored and co-published by the Society of Tribologists and Lubrication Engineers, this is part of three-volume handbook intended to provide up-to-date information on the science and technology of friction, lubrication, and wear. Compiled by Totten (former president of the International Federation for Heat Treatment and Surface Engineering), the handbook covers applications and maintenance (this volume); theory and practice (volume 2); and monitory, materials, synthetic lubricants, and more applications (volume 3). The second edition updates the 20-year-old original in this volume's applications section by splitting the hydraulics chapter into separate treatments of pumps and fluids and also adding new chapters on tribology of data storage devices and biotribology. It further adds three new chapters to the section on maintenance: lubricant cleanliness, environmental implications of lubricants, and centralized lubrication systems (theory and practice). Most of the rest of the material has been updated and revised as well.
- TJ1185 2006-021721 978-1-56990-404-6
High-speed, hard milling solutions.
 Howard, William G. (Modern machine shop book)
 Hanser Gardner Pub., ©2006 238 p. \$69.95
 Howard describes the machine tool characteristics and support technologies while concentrating on how to invest in technology that will provide the best results for high-speed, hard milling applications. The book is presented in a question and answer format with topics relating to machine construction elements, spindle technology, thermal control and lubricant technology, control technology, positioning and accuracy, and achieving solutions-based results. About half of the book is devoted to case studies and demonstration memos. It is aimed at novices, craftsmen, experienced professionals, and decision makers. There is no bibliography or index. Howard is a product line manager at Makino, a machining company that produced the book. He has taught engineering technology at Southern Ohio College and the U. of Cincinnati.
- TJ1189 2007-061350 978-0-8311-3316-0
Programming of computer numerically controlled machines.
 Evans, Ken.
 Industrial Press, ©2007 456 p. \$44.95 (pa)
 After reviewing CNC machine operation, this textbook describes program functions in G-code language, their practical application to turning and milling machines, CAD/CAM software for generating tool path, and Mazatrol conversational programming. The third edition adds a chapter on computer-aided manufacturing from solid models

TJ1320 978-0-8031-3413-3

Structural integrity of fasteners; including the effects of environmental and stress corrosion cracking; v.3.

Title main entry. Ed. by Pir M. Toor and Joseph Barron.
ASTM International, ©2007 158 p. \$66.00

We hardly notice them when they work, but they certainly cross our minds when they fail. These proceedings of the November 2004 symposium includes reports of fatigue and crack growth experimental techniques, design and environmental effects, fatigue and crack growth analytical techniques and design considerations. The papers reflect the conference's goal to provide timely and comprehensive technology on the structural integrity of new designs and continued evaluation of existing designs. Topics include development of tests and analytical procedures for marine fastener materials, the influence of cold rolling threads before or after heat treatment, finite element analysis (FEA), three-dimensional FEA simulations to assess residual stresses in riveting processes and four reports on experiments on aerospace threaded fasteners.

ELECTRICAL ENGINEERING, ELECTRONICS, NUCLEAR ENGINEERING

TK10 2006-939402 978-0-7695-2772-7

Engineering of computer-based systems; proceedings.

IEEE Conference and Workshops on Engineering of Computer-Based Systems (14th: 2007: Tucson, AZ) Ed. by John Leaney et al.
Computer Society Press, ©2007 614 p. \$231.00 (pa)

Papers from a March 2007 conference look at ways to raise expectations for software systems. Reliability, management of functional change, and on-time and on-budget delivery are the main themes. Papers are in sections on architectures, component-based system design, distributed systems design, embedded real-time software systems, requirements elicitation and analysis, and model-based system development. Other topics include medical and industrial applications, reengineering and reuse, security, and verification and validation. Papers address specific topics such as model-based testing with architecture models, clause symmetry in a distributed bounded model checking algorithm, model-based cyber security, and alert fusion for a computer host-based intrusion detection system. There is no subject index.

TK151 978-1-59693-244-9

Electrical engineering; a pocket reference.

Heinz, Schmidt-Walter and Ralf Kories.
Artech House, ©2007 666 p. \$69.00 (pa)

Comprehensive enough to be a desk reference but still fairly compact, considering the scope of the subject matter, this professional and student guide provides the basics of electrical engineering and also covers telecommunications, computer engineering and a range of other engineering disciplines. This is fully loaded with appendices that contain useful data on standards, electrical and physical data on materials and even a list of common acronyms. Rather than relying extensively on cross-references that cause more pawing than reading, the authors have organized materials in the same sequence in which students learn them and supplement text extensively with illustrations and tables. They also supply useful equations, graphics and illustrations and supply a very comprehensive index. The result should be seen on many engineers' desks, well-thumbed.

TK454 2007-013970 978-1-934015-03-2

Digital principles and logic design. (CD-ROM included)

Saha, A. and N. Manna.
Infinity Science Press, ©2007 492 p. \$69.95

Saha and Manna (both JIS College of Engineering, India) introduce engineering students to the classical methods of the design of digital circuits, providing background to and incorporating modern logic design techniques. Topics covered include Boolean algebra, combinational and sequential logic procedures, registers, a/d and d/a conversion, counters, and the logic family, among others. The accompanying CD-ROM contains simulations and figures from the text.

TK1001 0-8493-9293-4

The electric power engineering handbook, 2d ed.; 5v.

Title main entry. Ed. by Leonard L. Grigsby. (The electrical engineering handbook series)
CRC / Taylor & Francis, ©2007 2320 p. \$169.95

The volumes are also available individually, but this package offers significant savings for those who want all five. The set comprises *Power System Stability and Control*, *Power Systems*, *Electric Power Transformer Engineering, 2nd ed.*, *Electric Power Substations Engineering, 2nd ed.*, and *Electric Power Generation, Transmission, and Distribution*.

TK1001 2007-006454 978-0-8493-9292-4

Electric power generation, transmission, and distribution.

Title main entry. Ed. by Leonard L. Grigsby. (Electric power engineering handbook, 2d ed.)
CRC / Taylor & Francis, ©2007 — p. \$99.95

One of the five volumes of the 2d edition of the *Electric power engineering handbook* (also sold as a 5v. set), this volume is also a 2d ed, with new chapters on the environmental impact of transmission lines, real-time control of distributed generation, and distribution system characteristics and protection. Seven initial chapters discuss conventional and nonconventional methods of electricity generating, with chapters included on wind power, photovoltaics, and new energy technologies, including fly-wheel and compressed air energy storage and fuel cells. Subsequent chapters discuss current technology in transmission and distribution systems, electric power utilization and power quality.

TK1001 2007-005730 978-0-8493-9288-7

Power systems.

Title main entry. Ed. by Leonard L. Grigsby. (Electric power engineering handbook, 2d ed.)
CRC / Taylor & Francis, ©2007 — p. \$99.95

One of the five volumes of the 2d edition of the *Electric power engineering handbook* (also sold as a 5v. set), this volume is also a 2d ed, with new chapters on computational methods for electric power systems, flexible AC transmission system controllers, surge arresters, and probabilistic methods for planning and operational analysis. Other sections are substantially updated, including those on switching surges, transient voltage response of coils and windings, short-term load and price forecasting using artificial neural networks, planning and reliability, power semiconductor devices, inverters, and active filters for power conditioning. Each chapter presents a full description of the topic with diagrams, photos, and equations as needed for illustration as well as list of further references. The 25 chapters are written by professionals in the field in the US, Canada, Japan, Chile, and Spain.

TK1010 2007-006226 978-0-8493-9291-7

Power system stability and control.

Title main entry. Ed. by Leonard L. Grigsby. (Electric power engineering handbook, 2d ed.)
CRC / Taylor & Francis, ©2007 — p. \$99.95

One of the five volumes of the 2d edition of the *Electric power engineering handbook* (also sold as a 5v. set), this volume is also a 2d ed, with new sections on power system stability controls, small signal stability and power system oscillations, and dynamic modeling of power systems, as well as updating of earlier material. The wide area measurement system (WAMS) carried out in western North America in 2005 is discussed in a lengthy chapter co-authored by five participants (they're with the Bonneville Power Administration, Pacific Northwest National Laboratory, and British Columbia Hydro & Power Authority). Up-to-date and authoritative, this and the other four volumes of the handbook will be essential for professionals in the field.

TK1751 2007-006455 978-0-8493-7383-1

Electric power substations engineering, 2d ed.

Title main entry. Ed. by John D. McDonald. (Electronic power engineering handbook, 2d ed.)
CRC / Taylor & Francis, ©2007 — p. \$99.95

One of the five volumes of the 2d edition of the *Electric power engineering handbook* (also sold as a 5v. set), this volume is also a 2d ed, with new chapters on substation asset management and substation commissioning and substantial updating of the sections on integration, automation, substation grounding, high-voltage switching equipment and air-and gas-insulated substation. The 20 chapters are written for engineers and present full overviews of each topic, with lists of further references. Design, automation, operation and security are each discussed, with chapters on communications, physical and cyber security, and asset management, among other topics.

TK2551 2007-010459 978-0-8493-9186-6

Electric power transformer engineering, 2d ed.

Title main entry. Ed. by James H. Harlow. (Electric power engineering handbook, 2d ed.)

CRC / Taylor & Francis, ©2007 — p. \$99.95

One of the five volumes of the 2d edition of the *Electric power engineering handbook* (also sold as a 5v. set), this volume is also a 2d ed, with updated material, especially concerning the topics of dry-type transformers, instrument transformers, reactors, and load-tap changers. Written for engineers with experience of power transformers or those with sufficient knowledge of physics and its applications, the first 9 chapters describe the transformers and related technology, with the remaining chapters devoted to operation and transformer design. The text, which is well-illustrated with photos and drawings, is authored by professionals working in the industry, mainly in the U.S., though some are in Europe, Canada, Mexico, and Brazil.

TK3001 2006-038136 978-0-470-02742-4

Handbook of power system engineering.

Hase, Yoshihide.

John Wiley & Sons, ©2007 548 p. \$155.00

This reference details fundamentals of power systems and their components, and describes related analytical approaches. Focus is on scientific theories that will not change, rather than advanced technologies that continue to change year by year. Hase (Kokushikan University) covers the theories of several subsystems, such as generating plants and transmission lines, as well as phenomena ranging from power frequency to lighting and switching surges. Material is explained starting from physically understandable equations and then illustrated with actual phenomena. "Coffee breaks" offer boxed historical notes on inventors and discoveries. Appendixes list mathematical formulae and matrix equation formulae, and component and analytical method indexes are included. The book is for engineers who work in electricity-related industries such as power utilities, manufacturing enterprises, or engineering companies, and for advanced students of electrical engineering.

TK5101 2007-923723 978-0-7695-2835-9

Communication networks and services research; proceedings.

Conference on Communication Networks and Services Research (5th: 2007: New Brunswick, Canada) Ed. by Brent R. Petersen et al.

Computer Society Press, ©2007 418 p. \$216.00 (pa)

This collection from a May 2007 conference presents 54 papers on communication networks and services. Materials is organized in sections on security monitoring using wireless sensor networks, communication systems, orthogonal frequency division multiplexing, the Web, and security. Other subject areas are ad hoc networks and emerging communications technologies, communications algorithms, protocol design and analysis, traffic engineering and management, and ultra-wide band networks. Specific topics covered include a generic user modeling server for adaptive Web systems, an evaluation framework of location privacy of wireless mobile systems with arbitrary beam pattern, structural monitoring using wireless sensors and controller area networks, and topology design of optical networks based on existing power grids. There is no index.

TK5101 978-0-86341-362-9

Understanding telecommunications networks.

Valdar, Andy. (IET telecommunications series; 52)

IET, ©2006 336 p. \$53.00 (pa)

The wide popularity of both wireless and fixed telecommunications devices has not necessarily led to a complete understanding of the technologies and designs by non-specialists. Valdar (visiting telecommunications strategy, U. College London) has created an accessible text suitable for those needing a solid introduction or refresher on telecommunications networks. He uses illustrations very well to explain the basics and a good deal of the not-so-basic, covering the basics of telephony, the many types and configurations of networks and how they link, network components, transmission systems, transmission networks, circuit-switching systems and networks, signaling and control, data packet switching and routing, mobile switching systems and networks, numbering and addressing. Particularly interesting is the chapter putting all the components together, which includes commentary on architecture, performance, operations and a holistic view of an operating network. Distributed in the US by Books International.

TK5102 978-0-7695-2846-5

Advanced networking and applications; proceedings.

International Conference on Advanced Information Networking and Applications (21st: 2007: Ontario, Canada)

Computer Society Press, ©2007 1034 p. \$308.00 (pa)

About 135 papers from a May 2007 conference describe recent work in theoretical and practical aspects of network systems, distributed systems, multimedia systems, Internet and Web technologies, mobile computing, intelligent computing, pervasive/ubiquitous networks, dependable systems, semantic service, Grid, P2P, and scalable computing. Other subjects addressed include ad hoc networks, agent-based computing, wireless sensor networks, security and intrusion detection, communication technology, fault-tolerant networks, and network analysis and modeling. Some specific topics are depth-latency tradeoffs in multicast tree algorithms, multipath cellular network architecture for quality assured multimedia delivery, anonymous stabilizing leader election using a network sequencer, and robust and large scale distributed disaster information systems over the Internet. There is no subject index.

TK5102 2007-926336 978-0-7695-2847-2

Advanced networking and applications workshops/symposia; proceedings; 2v.

International Conference on Advanced Information Networking and Applications Workshops/symposia (21st: 2007: Niagara Falls, Canada)

Computer Society Press, ©2007 2065 p. \$493.00

This massive two-volume proceedings contains the papers presented at the various symposia and workshops held together during the 21st International Conference on Advanced Networking and Applications, which took place in May 2007 in Niagara Falls, Ontario, Canada. Among them are the 4th Symposium on Embedded Computing, the Symposium on Ubisafe Computing; the Symposium on Ubiquitous Computing and Intelligence; the Symposium on Bioinformatics and Life Science Computing; the 3d Symposium on Security in Networks and Distributed Systems; the Symposium on Data Mining and Information Retrieval; the 3d Symposium on Frontiers in Networking with Applications; and the 2d Symposium on Pervasive Computing and Ad Hoc Communications. The presenters are computer specialists based at public and private institutions worldwide. Author indexed only.

TK5102 978-0-470-02738-7

Digital alias-free signal processing.

Bilinskis, Ivars.

John Wiley & Sons, ©2007 430 p. \$150.00

Digital alias-free signal processing (DASP) is a technique for overcoming the problems of aliasing at extended frequency ranges. In this book, Bilinskis (Institute of Electronics and Computer Science, Latvia) covers the theory and techniques behind DASP. After an introductory chapter on signal digitizing and digital processing, chapters are organized in two sections on digitizing and processing, with material on different types of sampling, related sampling issues, and methods for complexity reduced designs. Examples present engineering applications using these techniques in areas including spectrum analysis, waveform reconstruction, and estimation of various parameters. The readership for the book includes practicing engineers and researchers working on the development of digital signal processing applications at extended frequencies, as well as electrical and computer engineering graduate students taking courses in signal processing or digital processing.

TK5102 2007-009433 978-1-905209-74-3

Discrete stochastic processes and optimal filtering.

Bertein, Jean-Claude and Roger Ceschi. (Digital signal and image processing series)

ISTE Ltd., ©2007 287 p. \$140.00

Bertein (mathematics, Graduate School of Electrical and Electronic Engineering, Paris) and Ceschi (engineering, Graduate School of Electrical and Electronic Engineering, Amiens) describe optimal filtering as it is applied to stationary and non-stationary signals, a method which is the most efficient means of dealing with noise signals. They supplement their text with exercises for classroom and self-study as they cover random vectors, including mathematical expectations and applications, Gaussian vectors, including affine transformations, discrete time processes, including an introduction to digital filtering, estimation, the Wiener filter, including its evaluation, adaptive filtering through an algorithm of the gradient and the LMS, and the Kalman filter. Distributed in the US by the Independent Publishers Group.

TK5102 2007-002535 978-0-471-37141-0
An introduction to communication network analysis.

Kesidis, George.
Wiley-Interscience, ©2007 232 p. \$77.00

What is really going on behind the modeling and analysis of communications networks? Kesidis gets to the core of it all in this self-contained text on evaluating modeling and performance. He covers both classic (such as queuing theory) and modern (such as pricing) aspects of networking, beginning, mercifully, with a review of elementary probability theory. He then works through Markov chains, including birth-death chains and simulated chains, queuing theory, including queues without losses and stationary queues, local multiplexing, including a description of a game theory framework for multiplexing packet flows, queuing networks with static routing, dynamic routing and routing with incentives, and peer-to-peer file sharing with incentives. Kesidis provides exercises and answers and appendices including terminology and algorithms.

TK5102 978-1-59059-902-0
Pro Microsoft speech server 2007; developing speech enabled applications with .NET.

Dunn, Michael D.
Apress, ©2007 275 p. \$64.99

After installing the OCS 2007 speech server, this guide explains options for compiling grammar and prompts and using them in .NET applications that run over telephone wire. Separate chapters focus on the details of creating SALT, VoiceXML, voice response workflow, and unified messaging applications that respond to spoken input. Logging and reporting with the analytics and tuning studio new to OCS 2007 speech server is also covered.

TK5103 2006-003478 978-1-59454-883-3
Adaptation techniques in wireless multimedia networks.

Title main entry. Ed. by Wei Li and Yang Xiao. (Wireless networks and mobile computing; v.6)
Nova Science Publishers, ©2007 357 p. \$129.00

Fifteen invited papers are presented by the editors (of the U. of Toledo and the U. of Alabama) with the aim of providing a reference to current activities and findings in the relevant technical fields of next generation heterogeneous and adaptive wireless and mobile communication systems. Among the topics addressed are link adaptation techniques for carrier sensed multiple access based wireless local area networks, adaptation in the physical layer using heterogeneous reconfigurable hardware, adaptive video multicast over wireless internet, adaptive techniques for robust real-time video communications, modeling adaptive self-organizing wireless networks, online stochastic optimization of wireless multimedia networks, economic and adaptive admission control of non-stationary traffic in wireless multimedia networks, and multimedia delivery over wireless multi-hop networks.

TK5103 2007-005085 978-0-13-230057-5
Broadband network architecture; designing and deploying triple-play services.

Hellberg, Chris et al. (Series: title)
Prentice Hall, ©2007 557 p. \$59.99 (pa)

This guide addresses the challenges network operators may face when designing and deploying a triple- and multi-play broadband network (a combination of video, internet, and VoIP services). Topics include: a history of broadband networks, the design of a triple-play backbone and access network, evolutions in last-mile broadband access, wholesale broadband networks, quality of service, IP addressing management and dynamic user session control, among others. A glossary of packet diagrams is included.

TK5103 978-1-59994-189-9
Building web applications with SAS/IntrNet; a guide to the application dispatcher.

Henderson, Don.
SAS Institute, ©2007 352 p. \$61.95 (pa)

One of the components of SAS/IntrNet software, the Application Dispatcher enables programmers to build dynamic applications that can access the power of SAS from a Web browser. This guide for experienced SAS programmers describes some less-well-known features they can use to make their tasks easier. Most of the examples given in the book are also available in a sample environment that may be downloaded from a companion Website. Consultant Henderson was one of the original developers for the SAS/IntrNet Application Dispatcher.

TK5103 2006-101466 978-0-8204-8659-8
Displacing place; mobile communication in the twenty-first century.

Title main entry. Ed. by Sharon Kleinman. (Digital formations; v.42)
Peter Lang Publishing Inc, ©2007 252 p. \$31.95 (pa)

Social scientists mostly from North America explore the impact of mobile communication on people's experience of place and community. Their topics include whether cities will be displaced, the neurobiology of attachments in a society with ubiquitous mobile information and communication technologies, cell phone and cell phone plan advertisements, information and communication technologies and mental health, and the wireless newsroom.

TK5103 2006-022229 978-1-60021-359-5
Interference potential of ultrawideband signals. (CD-ROM included)

Title main entry. Ed. by Michael Cotton et al. (NTIA report; TR-05-419)
Nova Science Publishers, ©2007 319 p. \$39.00

Excerpted from Report TR-05-419 published in 2005, three papers describe procedures for characterizing ultrawideband emissions and for measuring interference susceptibility and gated noise interference to C-band satellite digital television receivers. Numerous graphs plot test results of amplitude probability distributions, RF measurements, RF temporal analyses, IF amplitude analyses, and RF spectral analyses.

TK5103 978-1-59904-929-8
Managing worldwide operations and communications with information technology; proceedings; 2v.

Information Resources Management Association International Conference (2007: British Columbia, Canada) Ed. by Mehdi Khosrow-Pour.
Idea Group Publishing, ©2007 1652 p. \$495.00

Khosrow-Pour of the Information Resources Management Association ("an international professional organization dedicated to advancing the concepts and practices of information resources management in modern organizations" whose "primary purpose is to promote the understanding, development and practice of managing information resources as key enterprise assets among IRM/IT professionals") presents the proceedings of his organization's 18th annual international conference, held in May of 2007. The conference gathered an international group of contributors to discuss trends and applications of information technology (IT) and business management. Broadly speaking, the nearly 400 papers presented address such topics as human-computer interaction, IT management in developing countries, project management and IT, multicultural issues in IT management, social responsibility in the information age, interactive and educational technology, virtual organizations and society, electronic government research, IT evaluation methods and management, distance learning technologies, unified modeling language and unified process, information quality management, software process improvement, IT global sourcing, text database and document management, and accounting information systems. Other topics addressed include customer relationship management systems, web-based learning and teaching technologies, open source software, information security management, data warehousing and mining, intellectual property issues, strategic IT management, geographic information systems, business data communications and networking, database management technologies, multimedia information management, and software engineering technologies.

TK5103 978-0-470-03464-4
Personal content experience; managing digital life in the mobile age.

Lehikoinen, Juha et al.
John Wiley & Sons, ©2007 357 p. \$85.00 (pa)

Lehikoinen et al. discuss issues in the personal content experience and tools for analyzing applications, services, and user interfaces from a consumer-oriented view. They aim to identify aspects of personal content that are critical for the general public and the consequences to the system, application, and user interface design. They introduce and explore issues such as context capture, user interfaces for continuous mobile use, UI design for mobile media applications, metadata magic, virtual communities, and ontologies. In addition to presenting a mobile prototype software framework, other topics they discuss include user interactions and behavioral patterns and understanding personal content from different viewpoints. The book is intended for practitioners in mobile industry and digital content management, media-intensive application developers, content creators and distributors, academic researchers, and lecturers in computer science and multimedia.

TK5103 0-8247-2675-8

Wireless ad hoc and sensor networks; protocols, performance and control.

Sarangapani, Jagannathan. (Automation and control engineering; v.25)
CRC / Taylor & Francis, ©2007 514 p. \$139.95

For new network practitioners and undergraduate and graduate computer students, Sarangapani (U. of Missouri-Rolla) describes the theory, architectures, and technologies needed to implement quality of service in communication networks. He covers technical aspects for the design, implementation, research, and invention of computer network and wireless communication network control protocols in chapters on general concepts to wired, cellular, wireless ad hoc, and sensor networks. Underlying quality of service control techniques, developed using Lyapunov-based design, is demonstrated. Topics include dynamical systems, congestion control of high-speed networks, admission control, distributed power control, the framework for implementation using UMR mote hardware, packet scheduling schemes, link state routing, predicting congestion protocol, and radio frequency identification networks.

TK5105 2007-930337 978-0-7695-2866-3

Adaptive hardware and systems; proceedings.

NASA/ESA conference on Adaptive Hardware and Systems (2007: Scotland, United Kingdom) Ed. by Tughrul Arslan et al.

Computer Society Press, ©2007 743 p. \$262.00 (pa)

Ninety-nine papers from August 2007 conference present recent research on adaptive and reconfigurable circuits for multimedia and telecommunications, evolvable hardware, bio-inspired search and optimization algorithms, on-chip learning with analog circuits, fault tolerance, and self-repair. Special sessions feature invited papers on reconfigurable antennas, adaptive wireless sensor networks, high performance reconfigurable computing, and secure data. In one such session, four emerging technology papers explore a pervasive computing framework for modeling complex virtually-unbounded systems, a novel hardware architecture for self-adaptive systems, the Perplexus reconfigurable circuit, and a multi-agent approach to distributed autonomous explorations. No subject index is provided.

TK5105 978-0-321-49981-3

Adobe Dreamweaver CS3. (CD-ROM included)

Title main entry. (Classroom in a book)

Adobe Press, ©2007 308 p. \$54.99 (pa)

This book teaches readers with Adobe Dreamweaver CS3 web design software to use that program's basic and advanced functions. Lessons in twelve categories (including customizing workspace, applying cascading style sheets, working with text and images, inserting links, integrating Ajax with Spry, and publishing to the web) are offered in the book with the help of the accompanying CD-ROM with which users complete the exercises and which contains videos and additional tutorials.

TK5105 978-0-321-50893-5

Adobe Dreamweaver CS3; how-tos, 100 essential techniques.

Karlins, David.

Adobe Press, ©2007 280 p. \$24.99 (pa)

This reference outlines steps for specific tasks in designing and creating web sites with Adobe Dreamweaver CS3. Each stand-alone technique presented comes with step-by-step instructions, b&w screenshots, margin notes, and practical tips, and the reader-friendly layout includes space for the reader's own notes. Techniques progress from creating a web site through working with text and images, collecting data and forms, embedding media, adding effects and interactivity with Spry, and testing and maintaining sites. Karlins, a web designer and consultant, is author of more than a dozen books.

TK5105 2006-027708 1-59904-096-4

Advances in universal web design and evaluation: research, trends and opportunities.

Title main entry. Ed. by Sri Kurniawan and Panayiotis Zaphiris.

Idea Group Publishing, ©2007 304 p. \$94.95

The goal is to work towards a design of the World Wide Web that will make it accessible to people with disabilities, older people, children, people whose first language is not English and whose cultures and backgrounds are different from those of Web developers, and people using outdated hardware and software. Researchers and practitioners in fields clustering around information, computers, communication, and education describe new technology that they think will help.

TK5105 2007-020076 978-0-672-32960-9

Ajax starter kit; quick start guide. (CD-ROM included)

Ballard, Phil. (Sam's teach yourself in 10 minutes series)

Sams, ©2007 214 p. \$39.99 (pa)

Before introducing Ajax proper as a development technique used for creating interactive Web applications, Ballard reviews the workings of the Web and the writing of Web pages in HTML, and HTTP—the protocol used by Ajax to send server requests, and JavaScript. Subsequent lessons cover XML (the “x” of Ajax stands for XML) and the XMLHttpRequest object at the heart of all Ajax applications. Programming experience is helpful but not required. The bundled CD-ROM include a programmer's toolkit (for Windows, Mac, or Linux); searchable reference library; source code; and Ajax framework libraries.

TK5105 2007-021688 978-1-58705-316-0

Application acceleration and WAN optimization fundamentals.

Grevers, Ted and Joel Christner.

Cisco Press, ©2008 358 p. \$60.00 (pa)

For some time traditional LAN infrastructures have not able to keep pace with current demands. However, the reality is that such systems are out there in droves and not every firm can completely replace existing installations. This offers firms a way to integrate new technologies with older systems through consolidation. Practitioners Grevers and Christner start from what should be the beginning of every such project, which is identifying the needs of customers and the current capabilities of the system in question. They then urge readers to make sure what they are attempting to do aligns with business priorities and describe the reality of typical application-specific barriers. They describe using content delivery networks, overcoming transport and link capacity limitations, and examining accelerator technology scenarios, closing with helpful appendices on common ports and assigned applications and resources for more information.

TK5105 978-0-9758419-7-6

The art & science of CSS.

Adams, Cameron et al.

SitePoint, ©2007 213 p. \$39.95 (pa)

Loaded with illustrations, samples and code, this handbook and reference is also a dream book of sorts, giving developers concrete ideas to use in developing their work and making it work and look like a real pro created it. The authors keep it simple by focusing on content and the quality of the finished product rather than explaining features described elsewhere. They focus on elegance and appropriate style for the user in such topics as headings, images, backgrounds, navigation, forms, rounded corners and navigation. Readers also get a great deal of code that is clean and mean, and can apply the advice to a wide variety of applications very easily. The illustrations serve as inspiration and the directions make good sense, especially if you have specific questions about a feature or a method.

TK5105 2007-274851 978-1-59059-667-8

Beginning Ajax with PHP; from novice to professional.

Babin, Lee. (The expert's voice in open source)

Apres, ©2007 253 p. \$34.99 (pa)

Babin, a programmer specializing in web-driven applications, shows PHP users how to incorporate Ajax into their web applications without getting bogged down in JavaScript syntax. Using practical examples and real-world applications, he explains how to use Ajax and PHP together, and gives instructions on updating pages using data retrieved from a MySQL database. He then shows how to create practical Ajax-driven features such as dynamic file upload and thumbnail-generation tools, culminating in the creation of an Ajax-based photo gallery. Other topics covered include web services, cross-browser issues, building spatially enabled web applications using the Google Maps API, and the document object model.

TK5105 2007-008853 978-0-470-09697-0

Beginning CSS; cascading style sheets for Web design, 2d ed.

York, Richard.

John Wiley & Sons, ©2007

630 p.

\$39.99

This tutorial for beginning web developers and designers who are familiar with basic HTML shows how to combine cascading style sheets (CSS) with HTML, XHTML, or XML. Sections cover basics, properties, and advanced CSS and alternative media. Coverage is presented from a browser-neutral point of view. CSS is broken down into simple examples that focus on one concept at a time. Source code is presented in syntax-colored code, with different colors for different parts of the source code, designed to make programming easier and more intuitive. Code is also annotated to highlight important information and to visually point out concepts that are discussed in the surrounding text. Chapter summaries and exercises with explained answers are included. This second edition features browser screenshots in color, and offers improved coverage of Mac OS X browsers. The book is for readers with backgrounds in art or graphic design, and those who prepare print layouts for publishing. York is a web application developer in the telecommunications industry.

TK5105 2007-270945 1-59059-689-7

Beginning CSS web development; from novice to professional.

Collison, Simon. (Expert's voice in Web development)

Apress, ©2006

413 p.

\$34.99 (pa)

Aimed at beginning to intermediate web developers, this volume teaches the basics of using Cascading Style Sheets (CSS) to create standards-compliant designs. Coverage includes methods for controlling text, using images, and organizing data. Familiarity with (X)HTML markup is assumed on the part of the reader. Web developer Collison is also the author of *CSS Mastery: Advanced Web Standards Solutions*.

TK5105 2007-013699 978-0-470-12529-8

Beginning SharePoint 2007 administration; Windows SharePoint Services 3.0 and Microsoft Office SharePoint Server 2007.

Husman, Göran.

John Wiley & Sons, ©2007

578 p.

\$39.99 (pa)

Husman helps system administrators get started building a production environment with Windows SharePoint Service 3.0 (WSS) and MS Office SharePoint Server 2007 (MOSS). Hands-on tutorials cover every stage from the initial installation through configuration, administration, and the performance of backup and restore procedures. It is assumed that the reader has a basic understanding of the MS Windows 2003 operating system. Migration from earlier versions of the products is not covered. A veteran programmer and trainer, Husman has been awarded MVP status by Microsoft.

TK5105 2007-013840 978-0-470-12449-9

Beginning SharePoint 2007; building team solutions with Moss 2007.

Murphy, Amanda and Shane Perran. (Wrox programmer to programmer)

John Wiley & Sons, ©2007

552 p.

\$39.99 (pa)

Somehow, it keeps everyone and everything organized, interactive, and relatively happy considering they are at work. This software has become a staple in collaborative sites, especially in business but also in academic and core research. Information workers, business users and site managers responsible for building, customizing and maintaining sites will find this most helpful but its logical organization and accessibility make it useful for technical or business managers who want a peek behind the scenes. Topics are supported by copious examples and graphics and include getting started, working with lists and libraries, using workflow and content functions as well as web parts, managing users and audiences, creating profiles, building forms and Excel services, working with the business data catalogue and searching and getting started with web content management. Each topic includes exercises with answers, making this suitable for both classroom use and self-study.

TK5105 2006-031360 978-1-59904-274-9

Business data communications and networking; a research perspective.

Title main entry. Ed. by Jairo Gutiérrez.

Idea Group Publishing, ©2007

388 p.

\$99.95

This collection reprints enhanced versions of 14 papers originally published in the *International journal of business data communications and networking* in 2005. The researchers explore network design and application issues, mobility, wireless deployment, and network security. Topics include the design of high capacity survivable networks, delays associated with page downloads, coast-based congestion pricing in network priority models, data caching in a mobile database environment, Wi-Fi deployment in large New Zealand organizations, and fighting spam with a hashcash proof-of-work approach.

TK5105 2007-019367 978-1-58720-188-2

CCNP BCMSN portable command guide.

Empson, Scott.

Cisco Press, ©2007

151 p.

\$29.99 (pa)

As part of the Cisco Press certification self-study product family, this concise tutorial is geared to preparation for the Certified Cisco Networking Professional (CCNP) 642-812 Building Cisco Multilayer Switched Networks (BCMSN) exam. Empson (applied information systems technology, Northern Alberta Institute of Technology, Edmonton, Canada) summarizes all the commands needed at this level of network administration. Blank pages for notes are included. A trial subscription to an online version of the book is available.

TK5105 2007-014235 978-1-58720-189-9

CCNP BSCI portable command guide.

Empson, Scott.

Cisco Press, ©2007

173 p.

\$29.99 (pa)

In this concise guide, network professionals using Cisco and those preparing for the CCNP Building Scalable Cisco Internetworks exam will find relevant commands and concepts, as well as advice on memorizing them for the exam. Chapters cover network design requirements, EIGRP, integrated IS-IS, manipulation of routing updates, multicast, OSPF, BGP, and IPv6.

TK5105 2004-113728 1-58720-146-1

CCSP IPS exam certification guide. (CD-ROM included)

Carter, Earl.

Cisco Press, ©2006

599 p.

\$59.95

A member of the security technologies assessment team at Cisco explains the company's intrusion prevention system (IPS) suite of products, and walks through procedures for installing an appliance sensor on the network, configuring signatures, and tuning the sensor. The second half of the book explains the various signature responses available for protecting a network, security monitor administration, sensor maintenance, and the Cisco IDS module. The CD-ROM contains 200 practice questions for the exam.

TK5105 2004-117877 978-1-58705-236-1

Cisco Express Forwarding.

Stringfield, Nakia et al.

Cisco Press, ©2007

261 p.

\$60.00

This guide for networking professionals working in a Cisco environment explains the Cisco Express Forwarding (CEF) packet-forwarding architecture, offering strategies for troubleshooting routing and software-switching issues. The final chapters address special cases such as how packet switching works on a Cisco Catalyst 6500 SUP720 and load sharing with CEF.

TK5105 2003-116568 1-58705-189-3

Cisco network security troubleshooting handbook.

Hoda, Mynul.

Cisco Press, ©2006

1108 p.

\$75.00 (pa)

Addressing Cisco network security products deployed in the enterprise network, this reference outlines procedures for troubleshooting firewalls, virtual private networks, network access control, and intrusion prevention systems. Each chapter describes diagnostic tools and commands, analyzes problem areas, and summarizes solutions to common problems. Topics of the 20 chapters include the firewall services module, IPsec VPNs on IOS routers, AAA on VPN 3000 series concentrator, IDS/IPS 2 blade on switch, firewall MC, and security monitors.

TK5105 2007-006830 978-0-13-173886-7

Core JavaServer faces, 2d ed.

Geary, David and Cay Horstmann.

Prentice Hall, ©2007

723 p. \$49.99 (pa)

Assuming no previous knowledge of JSP and servlets, this tutorial offers instruction on web application navigation, JSF tags, data tables, conversion and validation, event handling, tiles, custom components, and external services. The second edition covers JSF 1.2 and adds chapters on Ajax and the open source projects Shale and Facelets. Horstmann teaches computer science at San Jose State University, and Geary is a consultant.

TK5105 2006-923796 0-471-78867-8

CSS for web designers only.

Baker, Donna L.

John Wiley & Sons, ©2006

278 p. \$39.99 (pa)

Intended for experienced web designers, this guide offers advice on designing stylish text and images with CSS, configuring page layout, structuring lists and tables, building interesting forms, testing pages on different browsers, and defining style sheets for multiple media types. Color illustrations, XHTML examples, and a glossary are provided.

TK5105 978-0-9787392-4-9

The definitive ANTLR reference; building domain-specific languages.

Parr, Terence.

Pragmatic Bookshelf, ©2007

361 p. \$36.95 (pa)

For software developers, Parr (U. of San Francisco) presents a guide on using ANTLR v3 (Another Tool for Language Recognition), a parser generator, to create interpreters and translators for domain-specific languages. It is meant for beginners and experts and aimed at the average programmer, while selected parts require some language experience. Readers should know Java. He details the concepts of ANTLR, describes how the nature of computer languages dictates the nature of language recognizers, and provides a complete calculator example. He then outlines the details of building large and complex grammars and translators, and discusses ANTLR's predicated-LL(*) parsing strategy and grammar analysis errors. Distributed by O'Reilly Media.

TK5105 2007-926702 978-0-7695-2850-2

Dependability of computer systems; proceedings.

International Conference on Dependability of Computer Systems (2007: Szklarska Poreba, Poland) Ed. by Wojciech Zamojski et al.

Computer Society Press, ©2007

377 p. \$224.00 (pa)

A June 2007 conference created a platform for discussion of dependability and maintenance problems of large systems, especially computer systems and networks which often operate in 'hostile' environments. Papers from the conference are presented here, in sections on modeling, methodology and tools, dependability of computer networks, software security and dependability, and applications. Specific topics covered include transient fault detection in state-automata, detection methods of dynamic spammers' behavior, maintenance policy of a network with traffic reconfiguration, and an artificial immune system approach for fault prediction in object-oriented software. Class inheritance metrics, development of a distributed planner for decision support systems, reliability of e-mail delivery in the era of spam, and error prevention for cryptographic hardware are some other subjects covered. The editor is affiliated with Wroclaw University of Technology, Poland. There is no subject index.

TK5105 978-0-321-50302-2

Dreamweaver CS3 for Windows and Macintosh.

Negrino, Tom and Dori Smith. (Visual quickstart guide)

Peachpit Press, Inc., ©2007

559 p. \$29.99 (pa)

This guide to Adobe's Dreamweaver CS3 software helps beginning and intermediate web designers build and embellish a website on either Windows or Mac, using an outline format and supplemental graphics. Beyond basic techniques, chapters show readers how to customize font, build dynamic pages with Spry, use forms and fields, use behaviors and navigation objects, edit code, and manage the site long term. Concluding material discusses customization and expansion of Dreamweaver software and offers code for cascading style sheets.

TK5105 2007-010167 978-0-321-39685-3

Eclipse Web tools platform; developing Java Web applications.

Dai, Naci et al. (The Eclipse Series)

Addison-Wesley, ©2007

724 p. \$49.99 (pa)

Part of the Eclipse open-source software framework, the Web Tools Platform (WTP) provides a range of tools and APIs designed to simplify the development of Web Services. Written by the project's founders, this guide for Java Web application developers offers detailed descriptions of the tools in version WTP 1.5. It also includes some material aimed at Eclipse plug-in developers who wish to extend WTP. Complete source code examples are available at a companion website.

TK5105 2007-006429 0-321-42174-4

Essential SharePoint 2007; delivering high-impact collaboration solutions.

Jamison, Scott and Mauro Cardarelli. (The Addison-Wesley Microsoft

Technology Series)

Addison-Wesley, ©2007

446 p. \$49.99 (pa)

This guide focuses on using Microsoft Office SharePoint 2007 to improve collaboration and decision-making, streamline processes, and solve real-world business problems. It walks readers through planning and architecting successful SharePoint solutions around the needs of a particular business, then addresses the operational support and end-user functionality needed to make SharePoint 2007 work, with special attention given to the organizational and political issues inherent in projects. The audience for the book includes project managers, consultants, and business analysts, as well as developers. Jamison participated in the developer advisory council that helped design new features for SharePoint 2007. Cardarelli is founder and managing partner of a services provider that helps companies use Microsoft technologies.

TK5105 2007-921748 978-0-7695-2829-8

Future of software engineering; proceedings.

Future of Software Engineering Conference (2007: Minneapolis, MN) Ed. by Lionel C. Briand and Alexander L. Wolf.

Computer Society Press, ©2007

379 p. \$224.00 (pa)

These 25 papers from the May 2007 conference survey the current state of software engineering in both academia and industry, and identify emerging research trends. The contributors explore the challenges of building advanced mechatronic systems, improving software practice through education, achieving safety in sensitive systems, and socio-technical coordination. Other topics include model-driven development of complex software, source code analysis, software model checking, web application development, requirement engineering, project economics, and reverse engineering. No subject index is provided.

TK5105 2007-005043 0-13-134796-9

JBoss seam; simplicity and power beyond Java EE.

Yuan, Michael and Thomas Heute. (Prentice Hall JBoss series)

Prentice Hall, ©2007

402 p. \$39.99 (pa)

Two JBoss employees illustrate how the JBoss Seam lightweight framework for Java EE 5.0 ties together the database, the web UI, and the transactional business logic to form an application. The guide explains state management, Seam UI tags, ready-made components, data validation, AJAX features, the rule-based security model, unit testing, Tomcat deployment, and performance tuning.

TK5105 2005-938255 0-471-77618-1

Master visually Dreamweaver 8 and Flash 8. (CD-ROM included)

Etheridge, Denise and Janet Valade. (Visual read less, learn more)

John Wiley & Sons, ©2006

650 p. \$34.99 (pa)

Illustrated by hundreds of screenshots, this guide explains the organization and creation of web pages with the Dreamweaver development tool and the basic framework for adding graphics and animations with Flash movies. The CD-ROM contains files for some of the examples and trial versions of Dreamweaver, Flash, and Fireworks 8.

TK5105 2007-012474 0-672-32903-4

Microsoft SharePoint 2007 development unleashed.

Hoffman, Kevin and Robert Foster.

Sams, ©2007

412 p. \$49.99 (pa)

After introducing the collaborative application markup language (CAML), this guide explains how to program the SharePoint object model, web services, web parts, and enterprise content. Writing for experienced developers, the authors discuss the SPWeb and SPWeb classes, list event handlers, the business data catalog, ASP.NET server controls, debugging web parts in Visual Studio 2005, the imaging web service, meeting workspaces, Excel services, and records repositories.

TK5105 978-0-470-00861-4

Microsoft SharePoint server 2007 bible.

Leon, Wynne et al.

John Wiley & Sons, ©2007

765 p. \$44.99 (pa)

After walking through a typical SharePoint installation and the site structure options, this guide explains how to search content, author workflows, define features for Office Server, manage web content, create a business intelligence platform, and customize content types. The final two chapters walk through a complete intranet portal for an IT consulting firm and a complete internet portal for a software company.

TK5105 2007-930113 978-0-7695-2927-1

Networking, architecture, and storage; proceedings.

International conference on Networking, Architecture, and Storage (2007: Guilin, China)

Computer Society Press, ©2007

280 p. \$193.00 (pa)

A July 2007 conference brought together researchers and practitioners from academia and industry to discuss current research in China on wireline and wireless networking, high-performance computer architecture, and parallel and distributed data storage technologies. This proceedings presents work from the conference, grouped in sections on architecture, networks, network security, sensor networks, distributed computing and software testing, and architecture and storage. Some specific topics addressed include routing protocols based on double auction for ad hoc networks, PKI-based authentication mechanisms in grid systems, a hybrid key management scheme for secure mobile multicast, and mining moving patterns based on frequent pattern growth in sensor networks. Other topics covered include an efficient SAN-level caching method based on chunk-aging, software fault localization based on testing requirements, and an object-based storage controller based on switch fabric. There is no subject index.

TK5105 2007-928879 978-0-7695-2922-6

Network computing and applications; proceedings.

International Symposium on Network Computing and Applications (6th: 2007: Cambridge, MA)

Computer Society Press, ©2007

340 p. \$209.00 (pa)

A July 2007 symposium served as a forum for researchers from a variety of areas in networking and networked systems, from protocol development to application tuning. Papers from the symposium are grouped in sections on internet traffic, distributed storage, publish/subscribe and peer-to-peer, security, fault tolerance, performance, adaptive and dynamic networks, and trustworthy network computing. Some specific topics addressed include message diffusion in unstructured overlay networks, transparent reliable multicast for Ethernet-based storage area networks, dynamic load balancing for network intrusion detection systems based on distributed architectures, and accelerating Web protocol using RDMA. Other subjects covered include TinyOS-based networks, exact forwarding table partitioning for efficient TCAM power savings, a swarm-based routing protocol for wireless sensor networks, and supporting callable and cooperative interval caching in a clustered video server. There is no subject index.

Assume that all books contain appropriate scholarly paraphernalia. We note if the book should contain, but lacks, a subject index and/or a bibliography.

TK5105 2007-018567 978-1-58705-198-2

Network management.

Claise, Benoit and Ralf Wolter.

Cisco Press, ©2007

631 p. \$70.00

Claise and Wolter, engineers at Cisco, explain Cisco IOS embedded management for monitoring and optimizing performance, presenting practical examples, hands-on techniques, and strategies for both accounting and performance management. They begin by introducing the role of accounting and performance management in large-scale data and voice networks, then look at embedded management and device instrumentation features of the Cisco IOS Software that enable users to characterize performance and plan network enhancements. Network standards, technologies, and Cisco solutions covered in depth include SNMP and MIB, remote monitoring, IP accounting, NetFlow, and BGP policy accounting. The book concludes with chapter-length scenarios of accounting and performance management for five different applications: data network monitoring, capacity planning, billing security, and voice network performance. The readership for the book includes NMS/OSS architects, network and service designers, network administrators, and anyone responsible for network accounting or billing.

TK5105 978-0-471-70355-6

Network security; current status and future directions.

Title main entry. Ed. by Christos Douligeris and Dimitrios N. Serpanos. Wiley-Interscience, ©2007

572 p. \$85.00

Researchers and practitioners in computer and information sciences report on the current ability to protect both sensitive data on computer networks and the integrity of the network itself, and explore promising and interesting possibilities on the horizon. Among their topics are intrusion detection versus intrusion protection, secure multi-casting, mobile telecom networks, and securing digital content.

TK5105 2007-011467 978-0-8493-2774-2

Official (ISC)² guide to the SSCP CBK.

Title main entry. Ed. by Diana-Lynn Contesti et al. ((ISC)² press series) Auerbach Publications, ©2007

573 p. \$59.95

Designed to help those who are serious about certification and about the very nasty people who want nothing less than to stop the world of digital information, this comprehensive taxonomy of information security topics brings the seven domains of this system down to the practical as well as the theoretical level, beginning with developing a common language and understanding the concepts. The volume covers access controls, security operations and administration, analysis and monitoring, risk, response, recovery, cryptography, networks and telecommunications and malicious code, each with references, useful web sites and sample questions and answers. Distributed by Taylor & Francis.

TK5105 2007-014507 978-0-321-49266-1

The practice of system and network administration, 2d ed.

Limoncelli, Tomas A. et al.

Addison-Wesley, ©2007

1011 p. \$59.99 (pa)

Rather than supplying a set of narrow how-to solutions to particular problems, the goal of this guide is to provide novice and experienced system administrators with a framework for thinking about system administration problems regardless of operating system, brand of computer, or type of environment. Limoncelli, a system and network administrator at Google, introduces foundations of IT infrastructure, then covers change processes, provision of seven basic services, and management practices. Chapters are divided into sections on the basics and "the icing," cool tricks to wow customers and managers. Examples are mainly from medium or large sites, and are usually generic; where they are operating-system specific, it is usually UNIX or Windows. This second edition reflects changes in the field since the first edition was published in 2000, and includes new chapters on documentation, data storage, and web services.

TK5105 2007-013453 978-1-59327-149-7

Practical packet analysis; using Wireshark to solve real-world network problems.

Sanders, Chris.

No Starch Press, ©2007

164 p. \$39.95 (pa)

After discussing different ways to place a packet sniffer on a network, this guide focuses on installing and initializing the Wireshark tool for capturing live data as it flows across a network in order to understand what is happening on that network. Case scenarios illustrate the analysis of network problems with connectivity, fragmented IP traffic, ghost programs, firewalls, spyware, slow downloads, and security.

- TK5105 0-9758419-6-3
The principles of beautiful web design.
 Beard, Jason.
SitePoint, ©2007 168 p. \$39.95 (pa)
 In his introduction, Beard compares web design to interior design, noting that the “high readability” hit counters and chunky table borders of yesteryear are the web design world’s “shag carpets, sparkly popcorn ceilings, and faux wood paneling.” He starts by defining good design, then presents the fundamentals of page layout, color, texture, typography, and imagery. Though design principles are the focus, he often includes tips for using CSS and also demonstrates how CSS allows designers to better control the look of their web sites. He includes numerous examples of well-designed sites, web addresses for more inspiring web pages, and addresses for useful resources such as free font download sites and an online tool for comparing HTML type.
- TK5105 2007-014621 978-0-470-10962-5
Professional ASP.NET 2.0 Ajax.
 Gibbs, Matt and Dan Wahlin. (Wrox programmer to programmer)
John Wiley & Sons, ©2007 307 p. \$39.99 (pa)
 Aimed at experienced ASP.NET developers looking to add AJAX to their applications, and experienced Web developers looking to move to ASP.NET and AJAX together, this guide shows how to use the Microsoft AJAX Library to combine ASP.NET with an object-oriented approach to JavaScript development. Coverage encompasses aspects of ASP.NET AJAX architecture, including server controls, the client-side JavaScript library, and the runtime environment. Examples and code samples are included. Version 2.0 the .NET Framework is required. Gibbs has co-authored several books on ASP and ASP.NET. Wahlin is a .NET development instructor.
- TK5105 978-0-596-10243-2
Programming Firefox.
 Feldt, Kenneth C.
O’Reilly Media, Inc., ©2007 494 p. \$59.99 (pa)
 Feldt (Cholabris Workgroup Solutions) explains how to use the Mozilla component framework to build standards-based Internet applications. Aimed at designers and developers, this combination reference and tutorial focuses on practical issues related to XML User Interface (XUL)-based design. Sample topics include configuring for chrome, extending the interface, and deploying standalone applications and extensions. The final chapter deals with the definition and implementation of XUL widgets.
- TK5105 978-1-59059-836-8
Pro LCS; live communications server administration.
 Edney, Andrew and Rui Maximo.
Apress, ©2007 383 p. \$49.99 (pa)
 After describing the different clients and topologies available for Live Communications Server 2005 SP1, this guide offers advice on deploying the standard edition server in medium-sized companies or the enterprise pool in large data centers. The authors also explain user configuration, the address book service, federation with users in another organization, public instant messaging connectivity, backup procedures, logging, archiving, troubleshooting, and telephony integration.
- TK5105 2007-011979 978-0-321-48079-8
RailsSpace; building a social networking Website with Ruby on Rails.
 Hartl, Michael.
Addison-Wesley, ©2007 537 p. \$44.99 (pa)
 Ruby on Rails is a development framework alternative to PHP, ASP, and J2EE. This tutorial walks readers through the development of a social networking web site, RailsSpace, aimed at the Rails community itself. Step-by-step instructions detail steps for creating features that support user registration, email, blogs, and a friendship request system. In the process, readers will learn how Rails helps control code complexity with the model-view-controller architecture, abstraction layers, and code refactoring. A companion web site provides source code, a blog with follow-up articles, narrated screencasts, and a working version of RailsSpace, the book’s social networking web site project. While no knowledge of the Ruby programming language or the Rails framework is necessary, readers should be familiar with at least one programming language, and an understanding of object-oriented programming is helpful. Hartl is a programmer.
- TK5105 978-0-596-52926-0
RESTful web services.
 Richardson, Leonard and Sam Ruby.
O’Reilly Media, Inc., ©2007 419 p. \$39.99 (pa)
 The web is no longer just the web, of course, and in some ways it has strayed far from its original incarnation as a relatively simple platform for distributed computing. Enthusiasts of representational state transfer (REST), an architectural style or a way of judging architectures, find significant gaps between that abstract concept and the reality. Master practitioners Richardson and Ruby have learned from their research into multitudes of ad hoc REST-like architectures and here offer a starting point for applications of those concepts to web services through resource-oriented architecture (ROA). They use basic web technologies, introduce ROA as a common-sense set of rules, show how RESTful designs are simpler, more versatile and more scalable than present remote procedure call practices, include current front-line examples, explain how REST works with programming languages, and show how to implement RESTful services in popular frameworks.
- TK5105 2007-014392 978-0-672-32936-4
Sams teach yourself Adobe Dreamweaver CS3 in 24 hours.
 Bruce, Betsy.
Sams, ©2007 559 p. \$29.99 (pa)
 The 24 one-hour lessons in this tutorial explain how to create a basic web page with Dreamweaver, display images, add multimedia files, format pages with cascade style sheets, insert scripted functionality, animate with timelines, and send form data. The CS3 edition adds a chapter on XML and the Spry framework, and code examples in XHTML.
- TK5105 2007-021272 978-1-58705-270-5
Security monitoring with Cisco security MARS.
 Halleen, Gary and Greg Kellogg.
Cisco Press, ©2007 316 p. \$60.00 (pa)
 This monitoring, analysis and response system (MARS) receives raw network and security data and correlates and investigates host and network information so system managers can take action. It uses network and security devices already in place to help administrators detect and report on threats such as probes from unauthorized sources, worms and viruses. The authors, all practitioners, start with an introduction to what MARS does and how it relates to administrators and users. They report on regulatory challenges in depth, such as the 1996 health insurance act (HIPAA) and Sarbanes-Oxley, then turn to deployment scenarios readers can follow to plan. The authors then cover operations and forensics, rules, reports, queries, incident investigation, archiving, disaster recovery and advanced topics such as integration with other security managers, troubleshooting, network admission control and the custom parser, closing with a full chapter on the global controller.
- TK5105 2007-927961 978-0-7695-2863-2
Security, privacy and trust in pervasive and ubiquitous computing; proceedings.
 Int’l Workshop on Security, Privacy and Trust in Pervasive and Ubiquitous Computing (3d: 2007: Istanbul, Turkey) Ed. by P. Georgiadi et al.
Computer Society Press, ©2007 91 p. \$167.00 (pa)
 Asian and European researchers report recent milestones in their continuing effort to improve security and privacy in computer systems that are everywhere all the time. Among their 15 topics are a survey on the applicability of trust management systems for wireless sensor networks, and secure mobile radio-frequency identification systems against privacy and security problems. Only authors are indexed.

TK5105 2007-927955 978-0-7695-2926-4
Services; proceedings.

IEEE Congress on Services (2007: Salt Lake City, Utah) Ed. by Liang;Jie (LJ) Zhang et al.
Computer Society Press, ©2007 380 p. \$200.00 (pa)

These proceedings of the July 2007 event include materials from the workshops intended to support the main conference by giving participants opportunities to describe emerging issues and technologies related to service-oriented architecture in conjunction with the 2007 IEEE International Conference on Web Services (ICWS) and Services Computing (SCC). Many of the papers and materials here address models for service-oriented architecture (SOA) in distributed computing and e-business processing. Topics of workshops include modeling, design and analysis for SOAs; semantic web for services and processes; service-oriented techniques for biological databases and tools; service and process oriented software engineering; scientific work flows; web service composition and adaptation; web services testing; web X.O; and entrants in the Ph.D. symposium describing a language-action perspective as a theoretical framework for web services, a critical review of unsecured WEP, and a systematic analysis and design approach to develop adaptable services in service-oriented computing.

TK5105 2007-013447 978-0-13-234482-1
SOA; principles of service design.

Erl, Thomas.
Prentice Hall, ©2008 573 p. \$49.99

Erl, editor of *The SOA Magazine*, provides insight on the design of services for service-oriented architecture (SOA), concentrating on how and where design principles can and should be applied with the ultimate goal of producing high-quality services. Chapters on fundamentals cover service-oriented computing and SOA, and the effects of service orientation on the enterprise. The bulk of the book covers design principles, with material on service contracts, service coupling, service abstraction, reusability, and service autonomy. Final chapters offer a comparison of service-orientation and object orientation, and look at supporting practices. Learning features include cases, key point summaries, boxed examples, and numerous color diagrams illustrating configurations. The book is for IT professionals involved in technology architecture, systems analysis, and solution design. The author is founder of a company specializing in SOA training.

TK5105 2007-009650 978-0-13-044968-9
SOA using Java Web services.

Hansen, Mark D.
Prentice Hall, ©2007 574 p. \$49.99 (pa)

Aimed at enterprise developers and architects, this guide explains how to build effective Service Oriented Architecture (SOA) applications with Java Web Services (JWS). Using detailed, real-world examples, consultant Hansen introduces the latest JWS APIs. In the final chapter, he describes an alternative, WSDL-centric approach to JWS. Hundreds of code samples are available for download from a companion Website. It is assumed that the reader has a basic understanding of J2SE 5.0.

TK5105 2006-923799 0-471-97177-4
Videoblogging for dummies.

Bryant, Stephanie Cottrell.
John Wiley & Sons, ©2006 386 p. \$24.99 (pa)

Featuring jargon-free language and simple instructions, this volume helps users of both Macintosh and Windows computers produce their own video blogs ("vlogs"). Topics include (for example) planning vlog content, choosing camera equipment, creating an intro, composing shots, editing content, and adding a soundtrack. Tech writer Bryant also explains how to upload vlog files to the Internet and gather data on traffic statistics.

TK5105 2007-920021 978-0-470-09824-0
Web analytics for dummies.

Sostre, Pedro and Jennifer LeClaire. (For dummies)
John Wiley & Sons, ©2007 362 p. \$24.99 (pa)

Web advertisers and web-entrepreneurs who've been dazzled or puzzled and bedazzled by what can be learned by studying statistics connected with websites will appreciate this clearly articulated presentation from two seasoned veterans. Coverage begins with the basics of getting started and choosing the right analytics tools and then proceeds to the meat of making the knowledge translate into more traffic and more money. The final section offers "tens"—that is, ten myths & mistakes, ten reasons why web analytics are important, and ten best practices.

TK5105 2007-927953 978-0-7695-2924-0
Web services; proceedings.

IEEE International conference on Web Services (2007: Salt Lake City, UT) Ed. by Liang;Jie (LJ) Zhang et al.
Computer Society Press, ©2007 1233 p. \$317.00 (pa)

The web exists weightless in cyberspace, but writings about it from the 2007 conference in Salt Lake City, Utah occupy a volume measuring about four inches thick, which, nevertheless seems bound well enough for practical use if the reader sits at a desk and not in an armchair with a cup of coffee in one hand. The subject is Internet-based application components that use the standard interface description languages. The fifth year of the ICWS program features papers on specifications and enhancements, services discovery and integration, security, services modeling, applications and solutions, and semantics in Web services. The research track of the conference comprises 48 papers selected from 266 submissions, in 16 sessions; the applications services and industry track consists of 92 papers, in 31 sessions, selected with an eye toward their contribution to practical solutions. A third track presents work in progress in nine sessions devoted to various aspects of quality of service and interoperability, service composition and identity management, modeling and composition, security and trust, business process management, grid and utility computing. The volume is not indexed.

TK5105 2006-027712 978-1-59904-168-1
Web services security and e-business.

Title main entry. Ed. by G. Radhamani and G.S.V. Radha Krishna Rao.
Idea Group Publishing, ©2007 394 p. \$94.95

Focusing on the needs of businesses that rely on the web for marketing, communications and sales, this collection of articles offers professional-grade techniques, algorithms, protocols and tools that authenticate, control access, and set availability, while maintaining privacy and confidentiality. Topics include wireless LAN loopholes, web security using a neural networks, security and privacy in RFID systems, mobile code, key generation for secure multicast communication protocols, security in mobile agent systems, intrusion detection systems, authentication using zero-knowledge proofs, attacks and countermeasures on web services, verifiable encryption of digital signatures, business intelligence security, chain signatures, distributed intrusion detection, generic algorithms, watermarking, electronic bills and off-line messaging, watermarking using redundant residue number systems, propagation and delegation of rights in access controls and risk assessment techniques, IPsec overhead in dual stack IPv4/IPv6 transition mechanisms and an approach to intentional modeling of web services security risk assessment.

TK5105 2006-031857 978-0-8493-9254-2
Wireless ad hoc networking; personal-area, local-area, and the sensory-area networks.

Title main entry. Ed. by Shih-Lin Wu and Yu-Chee Tseng. (Wireless networks and mobile communications)
Auerbach Publications, ©2007 640 p. \$89.95

The 23 contributions in this collection explore protocols, architectures, power management, and security for wireless local-area and personal-area networks. The authors propose autonomous swarm-bot systems for wireless sensor networks, a smart guidance system for the blind, multi-channel MAC protocols, and energy conservation protocols. Other topics include localization techniques, channel assignment, wireless mesh networks, fieldbus for distributed control application, and multimedia communication in integrated WCDMA/WLAN/ad hoc networks. Distributed in the U.S. by Taylor & Francis.

TK6553 2006-047942 1-4200-4349-8
Connective technologies in the supply chain.

Title main entry. Ed. by Sameer Kumar.
Auerbach Publications, ©2007 277 p. \$79.95

New connective technologies such as radio frequency identification (RFID) tags and global positioning systems (GPS) are enabling companies to more effectively manage their supply chains. This volume provides an overview of the implementation of these technologies in the retail and manufacturing sectors. Eleven contributions from academics and practitioners discuss such topics as the impact of RFID on supply chain traceability; the use of RFID technology in the Indian retail sector; and the character of recent RFID patenting activities. Distributed in the U.S. by Taylor & Francis.

- TK6565 978-0-470-03073-8
Antennas for portable devices.
 Chen, Zhi Ning.
John Wiley & Sons, ©2007 290 p. \$130.00
 Seven contributions from international academics and practitioners discuss the design of miniature antennas for portable mobile devices. Engineers, graduate students and researchers are the intended audience. Coverage includes antennas for mobile phone handsets, RFID tags, laptops, wearable devices, and UWB applications. Antenna issues in microwave thermal therapies are also addressed. The text is accompanied throughout by b&w photographs and drawings. Editor Chen is affiliated with the Institute for Infocomm Research in Singapore.
- TK6565 978-1-59693-073-5
Radiowave propagation and antennas for personal communications, 3d ed. (CD-ROM included)
 Siwiak, Kazimierz and Yasaman Bahreini. (Artech House antenna library)
Artech House, ©2007 464 p. \$139.00
 In this updated text, Siwiak (radio telecommunications, Florida Atlantic U.) and Bahreini (electrical engineering, George Washington U., Washington D.C.) introduce radio engineering students and practitioners to antennas and electromagnetics problems related to the telecommunications industry. With an emphasis on three distinct problems—fixed-site antennas, radiowave propagation, and small antennas proximate to the body—12 chapters cover topics including: historical perspectives, radio communication channel, radio frequency spectrum, receiver sensitivity and transmitted fields, loops and patch antennas, and simulated human body devices, among others. Updates include coverage of wireless local-area networks, personal-area networks and Multiple Input Multiple Output techniques. FORTRAN codes are included in the appendices.
- TK6570 2006-047941 1-4200-4653-5
Introduction to mobile communications; technology, services, markets.
 Wakefield, Tony et al.
Auerbach Publications, ©2007 431 p. \$69.95
 This book describes the core requirements of modern mobile telecommunications, from markets to technology, based on the core modules of the Certificate in Mobile Communications Distance Learning program of the Informa Academy of London. It discusses how mobile communications and technology are changing to meet customer needs and explains the mobile telecommunications market, technology principles, mobile network infrastructure and supporting systems, and handsets, services, media, and content distribution. Mobile communications theory and systems, current and developing systems and networks, a variety of services, and emerging technologies are covered. The book is aimed at telecommunications professionals and students and includes review questions. A bibliography is not provided. Distributed by Taylor & Francis.
- TK6570 2006-052808 978-0-471-68165-6
Mobile inter-networking with IPv6; concepts, principles, and practices.
 Koodli, Rajeev S. and Charles E. Perkins.
Wiley-Interscience, ©2007 365 p. \$85.00
Ipv6 is a new protocol designed primarily to provide an abundance of IP addresses for billions of devices, many of which are expected to be mobile devices accessing the Internet. In this reference, the authors (both of the Nokia Research Center) describe the concepts underlying the new protocol and related issues of packet handling and network mobility. They describe the protocols for fast handovers, context transfers, and hierarchical mobility management and discuss their application for enterprise mobile networking and wireless local area network. They also address such emerging issues as multi-access, seamless handovers, location privacy, and route optimization.
- TK6575 978-0-86341-566-1
Principles of space-time adaptive processing, 3d ed.
 Klemm, Richard. (IEE radar, sonar, navigation and avionics series; 21)
IET, ©2006 644 p. \$125.00
 Although space-time adaptive processing (STAP) has a number of applications, its main usefulness is in application to airborne (and spaceborne) movement target indication (MTI) radar. This is the area that Klemm (an active consultant at FGAN, the German Defense Research Establishment) focuses on as he presents an introduction to MTI system design that aims for suboptimum processors promising near optimum performance at low cost and with reduced computing time, weight, and energy consumption through the use of multichannel phased array antennae which provide spatial sampling of the backscattered echo field. In this new edition he adds a new chapter on the impact of the radar range equation on the STAP performance while retaining earlier materials on signal and interference models, properties of airborne clutter, adaptive space-time processors, space-time subspace techniques, spatial transforms for linear arrays, adaptive space-time digital filters, space-frequency processing, radar ambiguities, STAP under jamming conditions, bistatic radar, and target parameter estimation. The volume assumes basic knowledge of pulse Doppler radar and a familiarity with fundamentals of statistical detection theory and complex matrix algebra. Books from the UK's Institution of Engineering & Technology (IET), IEE, and Inspec are distributed in the US by Books International.
- TK6578 978-0-86341-501-2
Introduction to radar target recognition.
 Tait, Peter. (IEE radar, sonar, navigation and avionics series; 18)
IEE, ©2005 404 p. \$99.00
 Even in the most sophisticated recognition system, if an object does not want to cooperate, especially if that object is hostile, the system may have significant problems with detecting and identifying said object. This is just one of the challenges facing those who deal with radar target recognition processes. Practitioner Tait covers the key techniques being developed for operational systems, including those considered for space war, while keeping the steep learning curve in mind. He introduces the basic principals of radar systems with a tutorial, then describes high-resolution range profiles, high cross-range resolution techniques, frequency and time domain analysis, other high-resolution techniques, system issues, component implications, antenna design, operational issues, applications for aircraft to ships and air breathing missiles, the target recognition process, the art of combining radar signatures and other data, and future innovations and challenges. Distributed in the US by Books International.
- TK6580 2006-494513 978-0-86341-503-6
Sea clutter; scattering, the K distribution and radar performance.
 Ward, Keith D. et al. (IET Radar, Sonar, navigation and avionics series; 20)
IET, ©2006 452 p. \$109.00
 The authors (the two directors of TW Research LTD, a radar development company in the UK, and the deputy scientific director of Thales UK's Aerospace Division) synthesize the literature on maritime radar sensing concerned with scattering from the sea surface and exploitation of sea clutter by radar systems. After describing the experimental evidence of sea clutter characteristics, he presents three chapters that discuss modeling radar scattering, statistical models of sea clutter, and the simulation of clutter and other random processes. These are followed by examination of issues connected to the detection of small targets in sea clutter and imaging ocean surface features. Concluding chapters explore radar detection performance calculations, constant false alarm rate detection, and the specification and measurement of radar performance. Full understanding of the materials requires familiarity with the fundamentals of radar operation, a knowledge of electromagnetic theory and probability, and sufficient "mathematical maturity" to cope with unfamiliar equations, although these topics are discussed in appendices. Books from the UK's Institution of Engineering & Technology (IET), IEE, and Inspec are distributed in the US by Books International.

TK6637 2007-014283 978-0-313-33128-2

Television; the life story of a technology.

Magoun, Alexander B. (Greenwood technologies)
Greenwood Press, ©2007 209 p. \$45.00

In this history of television, Magoun (executive director, David Sarnoff Library, David Sarnoff Research Center, Princeton) not only explains the development and basic workings of this technology, but also the processes, personalities, and business decisions involved, and TV's impact on American values. In a "life cycle" framework, he traces TV from its protracted birth through the death of cathode tube TVs and resurrection in digital form. The author addresses issues relating to the paternity of inventions, government regulation, and changing broadcast standards. The book includes b&w illustrations.

TK6679 2006-039662 978-1-59904-361-6

Interactive digital television; technologies and applications.

Lekakos, George et al.
IGI Publishing, ©2008 355 p. \$99.95

Contributors from technical, communication, and business fields look at the technologies and applications, design, and business and marketing aspects of digital interactive television. Among their topics are interactive television as a vehicle for language learning, an activity-oriented approach to designing a user interface, a comparison of text editing in three interfaces, and the uses of traditional and internet television in Estonia.

TK6680 978-0-86341-504-3

Intelligent distributed video surveillance systems.

Title main entry. Ed. by Sergio A. Velastin and Paolo Remagnino. (IEE professional applications of computing series; 5)
IEE, ©2006 282 p. \$79.00

Velastin and Remagnino, both affiliated with the Digital Imaging Research Center, Kingston University, UK, present expanded papers from two IEE symposia, held in 2003 and 2004, on intelligent distributed surveillance systems (IDSS) for use in video surveillance. Papers address technical advances, deployment issues, and implications for personal security and privacy. Material is organized in nine chapters, each describing a method, an implementation, or a study of a distributed system. All chapters discuss algorithms and implementations employed not only in class video surveillance but also in the emerging field of ambient intelligence. The book will be of interest to computer vision researchers, scientists, and engineers, as well as those concerned with the deployment of advanced distributed surveillance systems.

TK7836 2006-031516 978-0-8247-9024-0

Microlithography; science and technology, 2d ed.

Title main entry. Ed. by Kazuaki Suzuki and Bruce W. Smith. (Optical science and engineering series)
CRC / Taylor & Francis, ©2007 848 p. \$139.95

In recent decades, applications of microlithographic technology have led to advances in the development of semiconductor integrated circuits and microelectromechanical systems. This work is presented by Suzuki (project manager, Next Generation Lithography Tool Development, Nikon Corporation) and Smith (director, Center for Nanolithography Research, Rochester Institute of Technology) as both introduction to the science and technology of microlithography and as reference for more experienced readers seeking a wider knowledge and deeper understanding of the field. It covers system overview of optical steppers and scanners, optical lithography modeling, optics for photolithography, excimer laser for advanced microlithography, alignment and overlay, electron beam lithography systems, x-ray lithography, extreme ultraviolet lithography, and imprint lithography. It also offers coverage of resists and processing—in chapters discussing the chemistry of photoresist materials, resist processing, multiplayer resist technology, dry etching of photoresists—as well as treatment of critical dimensional metrology for integrated-circuit technology and electron beam nanolithography. The new edition has been updated in accord with advances in the field since the original 1998 edition.

TK7867 2007-927960 978-0-7695-2918-9

On-line testing symposium; proceedings.

International On-Line Testing Symposium (13th: 2007: Crete, Greece) Ed. by Dimitris Gizopoulos et al.
Computer Society Press, ©2007 300 p. \$201.00 (pa)

These proceedings feature 56 articles from the 13th IEEE International On-Line Testing Symposium held in Heraklion, Crete, Greece, in July of 2007. In addition to a summary of the tutorial (part of the IEEE Computer Society Test Technology Technical Council Test Technology Educational Program) and keynote and invited talks, sessions, posters, and panels cover such topics as reliability issues in nanometer technologies, network-on-chip reliability, fault tolerance, secure systems, large scale dependability, and the dependability of processors. Other coverage is of SoCs and asynchronous circuits, aging and wearout issues and mitigation approaches, radiation effects, signal integrity and error compensation, SER trends, fault tolerance, on-line and processor-based testing, and self-checking and self-testing. Only an author index is provided.

TK7868 2006-032483 978-0-470-07296-7

Principles of modern digital design. (CD-ROM included)

Lala, Parag K.
Wiley-Interscience, ©2007 419 p. \$110.00

Lala (technical engineering, Texas A&M) introduces students to digital design, offering four chapters of background on combinational circuit design and the fundamentals of sequential circuits before delving into the VHDL language. Specific topics include: Boolean functions represented as cubes and tautology in combinational logic circuit design; counters; and VHDL coding for computer-aided synthesis of combinational logic circuits as well as sequential and fundamental mode non-synchronous sequential circuits, among other topics. The accompanying CD-ROM contains all the examples from the text.

TK7870 978-1-55899-927-5

Enabling technologies for 3-D integration; proceedings.

Symposium on Enabling Technologies for 3-D Integration (2006: Boston, MA) Ed. by Christopher A. Bower et al. (Materials Research Society; v.970)
Materials Research Society, ©2007 295 p. \$115.00

Three-dimensional integrated circuit integration is an emerging technology or device architecture based on the system performance gains that can be achieved by stacking and vertically inter-connecting device chips through silicon pathways. It has the potential for alleviate the irksome delay problem with long two-dimensional interconnects. The 28 papers cover fabricating the circuits; modeling, simulating, and scaling integrated devices; applications; through-wafer interconnects for packaging and interposer applications; bonding technology; and enabling processes.

TK7870 978-1-55899-926-8

Heterogeneous integration of materials for passive components and smart systems; proceedings.

Symposium on Heterogeneous Integration of Materials for Passive Components and Smart Systems (2006: Boston, MA). (Materials Research Society; v.969)
Materials Research Society, ©2007 163 p. \$113.00

These proceedings from the November 2006 symposium describe current trends, requirements and recent developments in electronic materials for applications in wireless (including RF, microwave, millimeter and THz frequency range), communication and portable devices. The papers here cover packaging and embedded components, including an invited paper on the influence of full-filled polymer molding on high-frequency circuits, system-in package, including papers on a breakthrough in miniaturization and nano-integration supported by very high quality passives and system level design tools, process and material requirements for successful heterogeneous passive component integration in RF systems and through wafer interconnects in a technology that goes beyond medical applications. Papers on MEMs include single-mode polymer optical fiber sensors for large strain applications and the paper on magnetic components covers power and radio frequency indicators using a hybrid ferrite-flex foil technology. The collection include symposium posters.

TK7870 2006-939397 978-0-7695-2795-6

Quality electronic design; proceedings.

International Symposium on Quality Electronic Design (8th: 2007; San Jose, CA)

Computer Society Press, ©2007 929 p. \$282.00 (pa)

This dense volume collects the 93 papers and 42 posters selected for the March 2007 symposium on the improvement of IC design quality, particularly with respect to device robustness, yield, testability, productivity, and overall system cost. The researchers present recent results in package circuit co-design, interconnects and power grids, parametric variations, analog and RF testing, low power circuits, lithography and OPC, DFM process, and modeling for soft error reliability. Topics include combating NBTI degradation via gate sizing, characterizing standard cell behavior at 90nm and below, speculative energy scheduling for LDPC decoding, and recursive function smoothing of half-perimeter wire length for analytical placement. No subject index is provided.

TK7871 2007-003579 978-1-59102-462-0

Brilliant!; Shuji Nakamura and the revolution in lighting technology.

Johnstone, Bob.

Prometheus Books, ©2007 336 p. \$28.00

When the then relatively obscure Japanese engineer Shuji Nakamura announced in 1993 that he had solved the puzzle of how to manufacture solid-state white lights, or light emitting diodes (LEDs), he stunned colleagues who had been striving to solve the problem for over a quarter century. Basing his narrative on interviews with Nakamura and others in the industry, science journalist Johnstone reconstructs the career of Nakamura, paying particular attention to the trajectory that led to his groundbreaking work with LEDs, but also discussing his legal battles with his former employer, his emigration to the United States, and his ongoing research. Johnstone also speculates on the future of LEDs.

TK7871 2007-007184 978-0-8194-6730-0

CMOS/CCD sensors and camera systems.

Holst, Gerald C. and Terrence S. Lomheim.

SPIE, ©2007 355 p. \$90.00

The authors explain the technology of sensors and detectors using charged-couple devices (CCDs) and complementary metal-oxide semiconductors (CMOS), which can be manufactured smaller and with less cost than CCDs but only at a cost to performance. They describe CCD and CMOS fundamentals; introduce array parameter issues such as well capacity, dark pixels, microlenses, and color filter arrays; explore the topics of quantum efficiency, responsivity, and noise sources; examine signal-to-noise ratio in terms of both radiometric units for scientific applications and photometric units for consumer applications; discuss image quality and its links to the system modulation transfer function and linear system theory; and describe different mathematical approaches to image quality.

TK7871 978-1-59693-132-9

CMOS RFIC design principles. (CD-ROM included)

Caverly, Robert.

Artech House, ©2007 435 p. \$129.00

In this book/CD-ROM package, Caverly (Department of Electrical and Computer Engineering, Villanova University) offers a practical reference on designing elemental and advanced CMOS RF integrated circuits. The first portion of the book is a review of RF system fundamentals. The second portion covers elemental CMOS RF circuits such as low-noise amplifiers, gain amplifiers, mixers, and oscillators, with ideal circuit topologies discussed first and then merged with nonideal CMOS circuit elements. The third portion of the book looks at more advanced CMOS RF integrated circuits such as voltage-controlled oscillators, phase lock loops, and power amplifier architectures. The CD-ROM contains demonstration versions of CAD tools, CAD layouts, and measured RF data on select RFICs. The book addresses the needs of RF, wireless, and microwave circuit designers, both professionals and students.

TK7871 0-86341-353-6

Fabrication of GaAs devices.

Baca, Albert G. and Carol I.H. Ashby. (Processing series; no.6)

IEE, ©2005 350 p. \$99.00

Editors and practitioners Baca and Ashby, along with their contributors, reason that other professionals and particularly students need to know the theory as well as the practice when dealing with GaAs devices, so they start with the basics, including the material and types of devices in which readers find it and basic semiconductor properties, growth, characterization and processing techniques. They turn to the practical with explanations of cleaning and passivation of GaAs and related alloys, wet etching and photolithography, dry etching, ohmic contacts, Schottky contacts, field effect transistors, heterojunction bipolar transistors, and wet oxidation of metal insulator semiconductor GaAs devices. Distributed in the US by Books International.

TK7871 978-0-86341-617-0

Low power and low voltage circuit design with the FGMOS transistor.

Rodriguez-Villegas, Esther. (Circuits, devices and systems series; 20)

IET, ©2006 304 p. \$109.00

In a world in which consumers want their electronic devices ever smaller, more complex, and easier to keep charged, power efficiency has become a major gating factor to progress. Rodriguez-Villegas (electrical and electronic engineering, Imperial College, London) gives designer what they need to know when working in low voltage and low power (LV/LP) circumstances, especially those involving the floating gate MOS (FGMOS). She begins by describing the reasons the issue is critical and the analog and digital techniques used to reduce power consumption, then covers the FGMOS transistor, circuit applications and design techniques, low-power analog continuous-time filtering based on the FGMOS in various regions (inversion ohm and saturation and weak inversion), low power log-domain filtering, and low-power digital design based on the FGMOS threshold gate. Distributed in the US by Books International.

TK7871 2007-923408 978-0-7695-2849-6

Microelectronic systems education; proceedings.

Int'l Conference on Microelectronic Systems Education (2007; San Diego, CA)

Computer Society Press, ©2007 177 p. \$184.00 (pa)

These proceedings of the June 2007 conference include papers from academicians and practitioners with a special emphasis on systems engineering. The many papers here include such topics as embedded systems, including an assessment of the market by a leading software producer and reports on teaching undergraduates. Other papers address the challenge of technological education in developing nations, teaching infomatics students the secrets of hardware design, and reaching twenty-first century students about microelectronics and semiconductor technology, active learning techniques in a CAD course, student-specified v. instructor-specified projects, a NASA robotic arm as an example of cooperation among government, industry and a university, low-cost SoC applications, a rapid prototyping course on mobile computer systems and several papers on innovative teaching methods and curricula, including using open-source software.

TK7871 2006-038167 978-0-8493-8080-8

Organic field-effect transistors.

Title main entry. Ed. by Zhenan Bao and Joanna R. Groza. (Optical science and engineering series; 128)

CRC / Taylor & Francis, ©2007 616 p. \$149.95

The development of organic thin film transistors (OTFTs) has led to applications such as active matrix flat-panel displays, radio frequency identification cards, and a range of sensors. Along with the ability to be deposited on substrates at low temperatures, they perform at levels comparable to that of silicon thin film transistors. This collection of papers on the theories behind the applications and the applications themselves includes material on aspects of charge transport in organic semiconductors from a molecular perspective, charge transport in oligomers, charge transport physics of solution-processed organic field-effect transistors, selection and design of dielectric materials, grazing incidence x-ray diffraction, scanning probe techniques, solution deposition of oligomers and polymers, inkjet printed OTFTs, soft lithography, vacuum evaporated thin films and a range of applications, including those for radio frequency identification tags, organic transistor chemical sensors, flexible and large area e-skins and ORFTs for flat panel displays.

TK7871 978-0-470-02535-2
RF and microwave transistor oscillator design.

Grebennikov, Andrei.
John Wiley & Sons, ©2007 441 p. \$150.00
Grebennikov (Infineon Technologies) explains both well-known and new theoretical approaches to oscillator design, and recommends optimum designs that combine analytic calculations and computer-aided design. Intended for researchers and practicing RF engineer, the book describes different oscillator noise models, voltage-controlled oscillators (VCOs), MOS varactors and spiral inductors, wideband VCO circuits, and phase noise reduction techniques. Numerous example schematics of RF and microwave circuit configurations using bipolar, MOSFET, and MESFET devices are analyzed in each chapter.

TK7871 978-1-84564-071-2
Simulation of electrochemical processes II; proceedings.

International conference on Simulation of Electrochemical Processes (2d: 2007: Myrtle Beach, SC) Ed. by V.G. DeGiorgi et al. (WIT Transactions on Engineering Sciences; v.54)
WIT Press, ©2007 340 p. \$225.00

These proceedings from the May 2007 conference include papers which describe the diverse theories and uses of electrochemical processes ranging from cradle (fabrication) to grave (corrosion and destruction). The papers demonstrate the close link between computational and experimental methods, covering modeling technologies, including computer modeling of the relationship between metallurgical microstructure and localized corrosion effects and kinetic Monte Carlo modeling of the leaching of Raney Ni-Al alloys; cathodic protection systems, including systems for ships' hulls and overhead lines; experimental measurements and computer results, including using a scanning vibrating electrode technique in measuring corrosion of a welded pipeline; interference and signature control, including a way to predict corrosion related signatures; stress corrosion, cracking and corrosion fatigue, including a study of corrosion of reinforcing steel in concrete bridges; and detecting and monitoring corrosion, including a report on an environmentally protective weathering steel. The US office of WIT Press is Computational Mechanics.

TK7871 978-0-19-568665-4
Solid state electronic devices.

Bhattacharya, D. K. and Rajnish Sharma.
Oxford U. Press, ©2007 537 p. \$49.50 (pa)
Semiconductor scientist Bhattacharya and electronic device scientist Sharma offer a textbook for an introductory course on solid state electronic devices for undergraduate students of engineering. With a minimal use of mathematical physics, they describe the basic tools of electronic devices and discuss the relevant electron dynamics, crystallography, device physics, and modeling.

TK7871 978-1-55899-929-9
Solid-state ionics; proceedings.

Symposium on Solid-State Ionics (2006: Boston, MA) Ed. by Enrico Traversa et al. (Materials Research Society symposium proceedings; v.972)
Materials Research Society, ©2007 422 p. \$115.00
International researchers working in academia and industry describe recent work investigating solid-state ionics. Eight of the 59 papers deal with high-temperature proton conductors and their application in solid oxide fuel cells and hydrogen permeation membranes. Other topics include (for example) the modeling of interfacial structure and point defects in ceria/zirconia superlattices; the development of new polybenzimidazole-based membranes for fuel cells; and a comparison of two formulations for the chemical bath deposition of nickel hydroxide thin films. Editor Traversa is affiliated with the U. of Rome Tor Vergata.

The two Book News periodicals alert you to more than 19,000 new, high-level books each year. Our mission is to get reliable news to you quickly.

TK7872 2006-016693 1-60021-184-4
Josephson junction and superconductivity research.

Title main entry. Ed. by William J. McCann.
Nova Science Publishers, ©2007 180 p. \$129.00
The Josephson junction is a type of electronic circuit capable of switching at very high speeds when operating at temperatures approaching absolute zero. As such it combines the fields of superconductivity, materials science and electronics. In these seven papers contributors describe their research in facets of Josephson junctions, including progress in fabrication techniques for circuits of small capacitance, the order parameter symmetry of unconventional superconductors by Josephson effects, annular Josephson tunnel junctions that monitor causal horizons, non-equilibrium phase diagrams of current-driven arrays, Josephson vortex behavior in certain superconducting ceramics under a low frequency magnetic field, thermomagnetic shock waves in the vortex stage of Type-II superconductors and finite temperature effects on the quantum phase transition in disordered d-wave superconductors.

TK7872 2006-016699 978-1-60021-183-6
New topics in Josephson junction and superconductivity research. (CD-ROM included)

Title main entry. Ed. by Carl S. Winslow.
Nova Science Publishers, ©2007 225 p. \$129.00
Eight studies by physicists from several countries report on their recent research into various aspects of superconductivity. Among their topics are the laser ablation of MgB₂ thin films and the characterization of the magnetic flux structure by means of magneto-optics and surface acoustic waves, the theory of superconductivity in doped cuprates, and thermomagnetic shock waves in the vortex state of type-II superconductors.

TK7874 2007-924275 978-0-7695-2896-0
Emerging VLSI technologies and architectures; proceedings.

IEEE Computer Society symposium on Emerging VLSI Technologies and Architectures (2007: Porto Alegre, Brazil) Ed. by Jürgen Becker et al.
Computer Society Press, ©2007 521 p. \$224.00 (pa)
Sixty-six papers and 27 posters selected for the March 2007 symposium present recent research on system-on-chip and network-on-chip technology, exploring methods for low power design, verification and testing, reconfigurable systems, optimized placement, mixed signal design, and embedded processing. The contributors propose a CMP-aware maze routing algorithm for yield enhancement, a MEMS short duration current pulse generator, and a flexible datapath interconnect for embedded applications. Other topics include generating realistic stimuli for accurate power grid analysis, the performance of graceful degradation for cache faults, overdrive power-gating techniques for power minimization, and partial product reduction for parallel cubing. No subject index is provided.

TK7874 978-0-7695-2827-4
European test symposium; proceedings.

IEEE European Test Symposium (12th: 2007: Freiburg, Germany)
Computer Society Press, ©2007 217 p. \$197.00 (pa)
Held in Freiburg, Germany in May, 2007, the 12th IEEE European Test Symposium (ETS 2007) drew researchers from around the world to discuss recent developments in the field of electronic-based circuit and system testing. This proceedings volume contains all of the papers presented there that were selected for the scientific track. Topics explored include NoC testing, online sensor testing, fault grading, single event upsets, and embedded tutorials. The volume concludes with a paper on a new DFT technique that allows for the testing of embedded ADCs and DACs in a fully digital manner. The volume is not indexed.

TK7874 2006-101011 978-0-8493-8528-5
Nano and molecular electronics handbook.

Title main entry. Ed. by Sergey Edward Lyshevski. (Nano- and microscience, engineering, technology, and medicine series)
CRC / Taylor & Francis, ©2007 — p. \$129.95
When solid-state microelectronics development hits a wall, other paths will get more attention; but this volume brings together 26 contributions from researchers (primarily, but not exclusively US-based) who are already thinking ahead. Their investigations involve the profound differences that molecular electronics involves at every level of research and application. Contributions are arranged in sections dealing with the device- and system-level, nanoscaled electronics, biomolecular electronics and processing, and device-level modeling and simulation. Editor Lyshevski (U.S. Air Force Research Laboratories and Naval Warfare Centers) is a prolific author and an expert in the synthesis, design, application, verification, and implementation of aerospace, electronic, electro-mechanical, and naval systems.

- TK7874 978-0-7695-2812-0
VLSI test symposium; proceedings.
 IEEE VLSI Test Symposium (25th: 2007: Berkeley, CA)
 Computer Society Press, ©2007 484 p. \$224.00 (pa)
 These 59 papers from the May 2007 symposium addresses challenges in semiconductor design, RF and analog test, delay test, memory test, diagnosis, online test, SOC test, and fault prediction. The contributors propose a low-cost RF MINO test using a single measurement set-up, power virus generation using behavioral models of circuits, a multimode Illinois scan architecture for reducing test time and data volume, and an RTL coverage metric for functional test selection. Other topics include silicon evaluation of static alternative fault models, clock fault testing for high performance microprocessors, and the effects of embedded decompression and compaction architectures on side-channel attack resistance. No subject index is provided.
- TK7876 978-1-59693-156-5
RF and microwave coupled-line circuits, 2d ed.
 Mongia, R. K. et al.
 Artech House, ©2007 549 p. \$139.00
 This text aims to be a comprehensive treatment of the theory and application of coupled structures in microwave transmission lines. For this new edition, the authors (of REMEC Defense and Space, MA/COM, and Natel Engineering Co.—all in the US—and the UK's Heriot-Watt U.) have left the opening chapters on microwave network theory, characteristics of planar transmission lines, analysis of uniformly coupled lines, broadband forward-wave directional couplers, parallel-coupled TEM directional couplers, and nonuniform broadband TEM directional couplers largely untouched, save for some additions and changes made to accommodate the multiplayer design of coupled lines. More major changes have been made to the applications section of the text, with the chapter on filters now including discussion of the design of bandstop filters using coupled lines and software packages used for filter designs and entirely new chapters on coupled line filters with specialized characteristics and filters using advanced materials and technologies. The final two chapters, on the design of common microwave components requiring coupled line technology and baluns (electronic devices that convert between *balanced* and *unbalanced* electrical signals), have also been updated as appropriate.
- TK7882 978-0-7695-2900-4
Information visualization; proceedings.
 International Conference on Information Visualisation (11th: 2007: Zurich, Switzerland) Ed. by Ebad Banissi et al.
 Computer Society Press, ©2007 960 p. \$247.00 (pa)
 These proceedings consist of about 140 papers from the 11th International Conference on Information Visualization held in Zurich, Switzerland, in July of 2007. Papers are by an international group of scientists, artists, and users from a variety of disciplines who take into account non-science areas such as the humanities, psychology, sociology, and business, and the theme of "Shifting Focus to Wider Understanding and Application." Papers are on topics relating to visual analytics; techniques; usability; applications; collaborative, web, large-scale, and knowledge visualization; geovisualization; biomedical informatics; built and rural environments; design; visual data mining; HCI; augmented, mixed and virtual reality; multimedia and e-learning; digital art; animation and computer games; and education. Only an author index is provided.
- TK7882 978-0-8247-2219-7
Speech and language engineering.
 Title main entry. Ed. by Martin Rajman. (Computer and communication sciences)
 EPFL Press, ©2006 478 p. \$179.95
 This volume introduces developers of applied Natural Language Processing (NLP) systems to some fundamental concepts in linguistics and provides examples of their successful application in human-language technology. It contains 16 contributions from academics and researchers who are specialists in various sub-disciplines. Topics include (for example) the Gricean approach to pragmatics; the theoretical foundations of lexical semantics; and statistical approaches underlying automated speech recognition. Editor Rajman is a member of the Artificial Intelligence Laboratory of the Swiss Federal Institute of Technology at Lausanne (EPFL). Distributed in the U.S. by CRC Press.
- TK7887 2006-927738 978-0-88362-564-4
The handbook for digital printing and variable-data printing.
 Bennett, Penny K.
 PIA/GATF, ©2006 206 p. \$40.00 (pa)
 Illustrated by color images, this handbook explains methods of variable-data printing where both text and images are personalized to the recipient, and describes the current technologies available for creating digital content, preparing files, printing dynamic output, and managing customer databases. Bennett is an associate professor of graphic communication at California Polytechnic State University.
- TK7887 2006-404441 978-0-86341-351-3
The switching function; analysis of power electronic circuits.
 Marouchos, C.C. (IEE circuits, devices and systems series; 17)
 IEE, ©2006 297 p. \$79.00
 Marouchos (Higher Technical Institute, Cyprus) describes the technique of the switching function, which is used to analyze power electronic circuits and to derive output voltage, output current, and input current. He first defines the switching function and its properties together with the voltage and current relationships of basic switched circuits and applies the technique to construct PWM (pulse width modulation) signals representing sine waves or composite modulating signals. He then analyzes the application of the switching function to standard ac-to-dc converters, dc-to-dc converters, the matrix converter, and the envelope cyclo-converter. The final section of the text deals with active filters, including the reactor static VAR controller, the switched capacitor, the inverter filter, and the active line current shaping circuits. Distributed in the US by Books International.
- TK7888 2007-928508 978-0-7695-2895-3
Engineering of complex computer systems; proceedings.
 IEEE International Conference on Engineering of Complex Computer Systems (12th: 2007: Auckland, New Zealand)
 Computer Society Press, ©2007 384 p. \$201.00 (pa)
 The proceedings of the July 2007 conference features special sessions on complexity with autonomic systems, complex program verifier, and the FMICS-jETI platform for program verification. Other papers address real-time systems, modeling, security, context awareness, formal languages, and software architecture. Topics of the 40 papers include the registry for sensor network discovery, reasoning about nonblocking concurrency using reduction, managing changes in designs of embedded computing systems, POSIX file store in Z/Eves, and modular synthesis of discrete controllers. No subject index is provided.
- TK7889 978-0-321-45501-7
Desktop and portable systems, 3d ed.
 Title main entry. Ed. by Marc Asturias and Moria Gagen. (Apple training series)
 Peachpit Press, Inc., ©2007 607 p. \$59.99 (pa)
 Appropriate for technician certification exam preparation, these 28 lessons walk through the Apple troubleshooting process, introduce software tools, and describe detailed upgrade, repair, and disassembly procedures. The desktop lessons cover the 24-inch iMac, Mac mini, and Mac Pro, while the portable section focuses on the 13-inch MacBook and 17-inch MacBook Pro.
- TK7895 2006-033573 978-0-470-05437-6
Advanced FPGA design; architecture, implementation and optimization.
 Kilts, Steve.
 Wiley-Interscience, ©2007 336 p. \$100.00
 A consulting engineer based in Minnesota, Kilts consolidates years of his white papers and application notes for specific projects into a broad guide to help designers become advanced designers of field programmable gate arrays. Synthesizing from experience rather than analyzing from theory, he emphasizes practical applications. The arrangement mirrors a typical design flow from specification and architecture to program and debugging a device.

- TK7895 0-321-51422-X
Apple Pro training series; Compressor 3 quick-reference guide.
 Gary, Brian. (Apple Pro training series)
Peachpit Press, Inc., ©2007 209 p. \$29.99 (pa)
 This guide, applying the curriculum of the Apple Training and Certification Program, teaches readers how to compress audio and video content using Apple's Compressor 3 software. Accessible chapters offer time-saving coding tips and discuss how to compress for platforms including iPod and HD DVD, add timecode window burns and animated logos during coding, import from Quicktime and other formats, and encode for the web, among other tasks. Accompanying color graphics demonstrate techniques.
- TK7895 2007-921107 978-0-7695-2773-4
Networks-on-chip; proceedings.
 International Symposium on Networks-On-Chip (1st: 2007: Princeton, New Jersey)
Computer Society Press, ©2007 334 p. \$185.00 (pa)
 These proceedings for a first-time symposium focus on architectural, circuits and design research into networks-on-chip (NoC) technologies. They include notes from the keynote and dinner speeches by prominent practitioners and academics as well as papers from sessions, including those on NoC design case studies, technology and circuit techniques, system architecture, verification, debugging, routing and topology, reconfigurable NoCs, CAD and methodology for NoCs and NoC mapping and simulation. The collection also includes papers from poster sessions that encompass a range of topics concerned with designing and applying this relatively new technology, lists of committee members and addresses by symposium leaders.
- TK7895 978-0-470-05882-4
Smart card applications; design models for using and programming smart cards.
 Rankl, Wolfgang. Trans. by Kenneth Cox.
John Wiley & Sons, ©2007 217 p. \$130.00
 Smart card technology has reached the stage of development where user needs and applications are the focus of attention in the field, rather than theoretical aspects. Because of this, Rankl (Giesecke & Devrient GmbH, Germany) has chosen to concentrate this handbook on proven solutions that can be implemented directly using available smart card operating systems. He describes reusable model solutions and modules that can be used to handle commonly occurring tasks and can be presented independently of actual program code. He covers architecture, implementation, and operation patterns; discusses practical issues of prerequisites and in-field faults; and presents illustrative use cases.
- TK7895 2006-389180 0-86341-552-0
System-on-chip; next generation electronics.
 Title main entry. Ed. by Bashir M. Al-Hashimi. (IEE circuits, devices and systems series; 18)
IEE, ©2006 911 p. \$109.00
 System-on-chip (SoC) is believed to represent the next major market for microelectronics. Al-Hashimi (computer engineering, University of Southampton, UK) gathers information on existing and emerging SoC research areas, with focus on general principles and ideas of designing, validating, and testing complex embedded computing systems and their underlying tradeoffs. Each chapter begins with background on basic principles, then surveys key achievements and future trends. Chapters are grouped in sections on system design, embedded software, power management, reconfigurable computing, network-on-chip, and verification and testing. The book will be of interest to graduate students, designers, and managers working in electronic and computer engineering. The work presented here originated at a spring 2005 meeting. The book is distributed in the US by Books International.
- TK9152 978-0-86341-668-2
Nuclear power.
 Wood, J. (IET power and energy series; 52)
IET, ©2007 239 p. \$47.00 (pa)
 Wood, a journalist specializing in the power industry, explains in detail how nuclear power works, its costs, and its benefits as part of the electricity supply system, and looks at the debate over the pros and cons of nuclear power. Coverage is from a UK perspective, with chapters on privatizing the UK nuclear industry and design of a new nuclear program for the UK. Chapters on technical topics, such as current and future reactor designs and fueling the reactor, are applicable in all countries. B&w photos, maps, and a 10-page glossary are included. This is the first of four books in the publisher's Power and Energy series that are aimed at industry professionals rather than academics. Books from the UK's Institution of Engineering and Technology (IET) are distributed in the US by Books International.
- TK9203 2006-279718 1-58603-605-X
Experimental and analytical modeling of natural circulation and forced circulation BWRs; thermal-hydraulic, core-wide, and regional stability phenomena.
 Furuya, Masahiro.
IOS Press, ©2006 130 p. \$48.00 (pa)
 Boiling water reactors (BWRs), along with pressurized water reactors (PWRs) are ways in which nuclear power heat water to produce energy. In the case of BWR, the energy is produced in the core of the reactor itself rather than in secondary systems as in PWRs. Nuclear power researcher Furuya presents here the results of ten years of his work on the thermal-hydraulics, core-wide and regional stability phenomena of BWRs that he says will help alleviate the needs of a rapidly growing population for energy. He describes the history of nuclear reactors and BWRs and the research on stable BWRs. He then describes the low-pressure and high-pressure thermal-hydraulic issues encountered in research, gives implementation methods for neutronic and thermal-hydraulic coupling and offers ideas on natural circulation BWR core-wide and regional stability, forced-circulation BWR core-wide and regional stability. He also provides a reduced-order model, and summaries in Dutch and Japanese.
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- MOTOR VEHICLES, AERONAUTICS, ASTRONAUTICS**
- TL154 2007-001235 978-1-56990-406-0
Plastics in automotive engineering; exterior applications.
 Title main entry. Ed. by Rudolf Stauber and Ludwig Vollrath.
Hanser Gardner Pub., ©2007 407 p. \$129.95
 Stauber (BMW Group, Germany) and Vollrath (VDI-Gesellschaft Kunststofftechnik, Germany) provide an overview of current plastic polymer applications for automotive exteriors in European car manufacturing. The volume describes body applications for lightweight design, material concepts and process technologies, modeling and rapid prototyping, and joining and bonding techniques. It also presents case studies of design, production, and performance for structures and body panels; front modules, crash elements, and safety concepts; roof modules and hardtops; automotive glazing; and acoustics and aerodynamics. Future volumes are planned that will address applications in the car interior and in the engine compartment and assemblies.
- TL215 2006-037877 978-0-8376-1511-0
MINI Cooper service manual; 2002, 2003, 2004, 2005, 2006 Cooper, Cooper S, including convertible.
 Title main entry.
Bentley Publishers, ©2007 — p. \$119.95 (pa)
 For professionals, and for owners who want to understand their itty bitty cars better, this manual supplants the previous edition (through 2004 models) to include two more model years of coverage and new repair info for the convertible and the 2005 facelift. The presentation is remarkably clear, with some 1,900 labelled b&w photos (along with diagrams) showing the important innards. A 16-page color MINI product familiarization section offers a visual tour.

TL561 2007-018163 978-1-56347-876-5
Hired minds; a career guide for engineering students and graduates.

Gardner, Bryan.

Am. Inst. of Aero. & Astro., ©2007 137 p. \$19.95 (pa)

This guide gives tips for starting out in a career as an entry-level engineer, with examples from the aerospace industry that can be applied to the automotive, commercial products, manufacturing, and research industries, among others. Gardner uses the experiences of about 24 engineers to illustrate getting started successfully in a job, rather than how to climb the corporate ladder. He covers resumes, interviews, the first two weeks, working on projects, dealing with managers, changing programs, continuing education, and office skills not related to engineering, such as meetings and paperwork. There is no index or bibliography. Gardner is working on graduate degrees from the Massachusetts Institute of Technology in aeronautical and astronautical engineering and business administration.

TL670 978-0-8109-9285-6

Aircraft; the jet as art.

Milstein, Jeffrey.

Harry N. Abrams, ©2007 104 p. \$29.95

Each plane is shown by itself on a white page, most from below; a few images occupy multiple pages afforded by foldouts, and a few are shown from the side. These color photos by Milstein, showcased in an oversize format (12.5x12.5"), are motivated by his love of their design. A two-page chart identifies each craft and some of its specifications. Walter J. Boyne, former director of the National Air and Space Museum, Washington, D.C. wrote the foreword, and that's the only text.

TL671 2006-043974 0-470-04416-0

Aircraft performance.

Saarlas, Maida.

John Wiley & Sons, ©2007 282 p. \$130.00

This volume outlines methods needed to determine the performance of an aircraft, focusing on the application of the concept of energy production and balance to aircraft performance evaluation. The approach is to minimize aerodynamics and propulsion-driven methodologies that often lead to approximations and loss of overview of the problem, so aerodynamics and propulsion are considered as known inputs to the mechanics equations. Methods described are level flight, climb, range, take-off, and maneuvering. The volume is meant for upper-level undergraduate and graduate students in aeronautical engineering and design engineers in the military and industrial sectors. Saarlas is a retired professor of aerospace engineering at the US Naval Academy.

TL782 978-1-56347-703-4

Fundamentals of hybrid rocket combustion and propulsion.

Title main entry. Ed. by Martin J. Chiaverini and Kenneth K. Kuo. (Progress in astronautics and aeronautics; v.218)

Am. Inst. of Aero. & Astro., ©2007 648 p. \$119.95

Chiaverini, a propulsion engineer, and Kuo (mechanical engineering, The Pennsylvania State University) bring together respected experts in the field of hybrid rockets in this text/reference for industrial designers, propulsion steam analysts, test engineers, academic researchers, and graduate and advanced undergraduate students in chemical propulsion. Coverage encompasses fundamental aspects of hybrid combustion, theoretical and experimental approaches to solid-fuel regression rate characterization, and both analytical and numerical modeling of hybrid rocket internal flow fields. Other areas covered include transient hybrid rocket combustion, scaling effects relevant to hybrid motors, practical applications, and challenges for continued advancements in the field. B&W photos are included.

TL1490 2006-030291 978-0-929600-90-1

Information needed to make radiation protection recommendations for space missions beyond low-earth orbit.

Title main entry. (NCRP report; no.153)

NCRP-Radiation Protection, ©2006 427 p. \$75.00 (pa)

Prepared by a committee of the National Council on Radiation Protection and Measurements, this is one of a series of reports advising the National Aeronautics and Space Administration on limiting astronaut exposure to ionizing radiation in space. As current guidelines pertain only to missions in low-Earth orbit, this report addresses radiation protection in the complicated deep space environment. It describes current knowledge of galactic cosmic radiation and solar-particle events, space radiation physics and transport, space dosimetry, and space radiation biology and also outlines a space radiation risk assessment methodology. Section 8 contains a summary of all of the information given.

MINING ENGINEERING

TN690 2006-103391 978-0-8031-4265-7

Metallographic and materialographic specimen preparation, light microscopy, image analysis, and hardness testing. (CD-ROM included)

Geels, Kay. (Manual; 46)

ASTM International, ©2007 743 p. \$117.00

This desk reference provides students and researchers the lab skills they need to process and test a range of materials and metals. It describes the preparation process, including sectioning, mounting, marking, storing, grinding, polishing, and etching and gives step-by-step instructions for hands-on preparation techniques, including light microscopy and other visual methods. It also covers automatic image analysis, static and dynamic hardness testing, laboratory procedures and occupational safety and health. Each of the sections includes appropriate tables and illustrations and the step-by-step instructions are accessible even to novice lab workers. Appendices include related standards and the authors include a glossary and reference for standard units.

TN695 978-0-87849-419-4

Progress in powder metallurgy; proceedings; 2v.

Powder Metallurgy World Congress & Exhibition (2006: Busan, Korea)

Ed. by Duk Yong Yoon et al.

Trans Tech Publications, ©2007 1650 p. \$458.00 (pa)

Duk Yong Yoon, conference organizer and one of the editors offers a brief preface to this two-volume set presenting the proceedings of the September 2006 PM conference held in Korea. He emphasizes the emergence of new fields such as nano-materials, cellular materials, and process modeling by computer simulation, and the more sophisticated tools and approaches being developed in traditional fields like compacting and sintering. He also sets the global context for materials science and engineering, suggesting that links to other fields are essential for development, that the science and the technology benefit from international cooperation, and that the advances are best shared among advanced and emerging countries. Papers are arranged in chapters addressing mechanical alloying, powder forging, spray forming, sintering, steels, composite materials, electrical and electronic applications, aerospace applications, and superconducting materials, among other topics.

TN773 978-0-87339-659-2

Light metals 2007; proceedings. (CD-ROM included)

International Symposium on Light Metals 2007 (2007: Orlando, FL) Ed. Morten Sørli.

TMS (Minerals, Metals...Soc.), ©2007 1246 p. \$235.00

Papers from a winter 2007 meeting reveal the latest advances in practical applied technology and hard science in light metals. Material is in six main sections on alumina and bauxite, aluminum reduction technology, cast shop technology, electrode technology, recycling and waste processing, and the material recycling industry. Specific topics examined are inspection techniques for digestion pressure relief, control of fluoride emissions, a new wave equation for MHD instabilities in aluminum reduction cells, computer simulations of melt flow and particle removal, wear of carbon cathodes in cryolite-alumina melts, fuel consumption in anode baking, a mechanical separation process to recover metals and polymers from shredder residue, and environmental management of airborne metal emissions in the recycling industry. The editor teaches at the Institute of Materials Technology at Norwegian University.

Magnesium technology 2007; proceedings. (CD-ROM included)

International Symposium on Magnesium Technology (2007: Orlando, FL) Ed. by Randy S. Beals et al.

TMS (Minerals, Metals...Soc.), ©2007 468 p. \$170.00

Seventy-five papers from the February 2007 symposium investigate wrought magnesium alloys and forming processes, casting and solidification, automotive applications, alloy development, thermodynamics, microstructure and properties, production, corrosion, and coatings. The contributors present a lightweight automobile body concept, advances in magnesium injection molding, a recycling alloy based on the AM alloy system, and the determination of Hall-Petch constants in pure magnesium. Other topics include surface modification of magnesium by micro arc oxidation, the role of carbon for grain refinement, rheoforming technologies for processing wrought alloys, and the influence of deicing salts on corrosion. No subject index is provided, but the papers are searchable on the CD-ROM in PDF format.

CHEMICAL TECHNOLOGY

TP150 2007-008047 978-0-470-16569-0

Guidelines for risk based process safety.

Center for Chemical Process Safety.

Wiley-Interscience, ©2007 698 p. \$150.00

Published by the Center for Chemical Process Safety, this book provides guidelines for risk based process safety, meant for professionals in building and operating more effective management systems. It describes how to design a process safety management system, correct a deficient system, and improve management practices. The framework is based on ideas published by the center in the 1990s, divided into 20 elements based on four concepts: committing to process safety, understanding hazards and risk, managing risk, and learning from experience. Elements range from emergency management, safe work practices, and operational readiness, to auditing, process knowledge management, and measurement and metrics. Applications to industrial operations and the framework for each element are outlined, with principles and features, work activities and implementation options, performance and efficiency improvement examples, possible metrics, and management review topics for each.

TP150 978-0-471-97940-1

Guidelines for safe and reliable instrumented protective systems.

Center for Chemical Process Safety.

Wiley-Interscience, ©2007 405 p. \$125.00

This text was produced by the Center for Chemical Process Safety (CCPS), an industry technology alliance of the American Institute of Chemical Engineers, to aid in promoting safer and more reliable instrumented protective systems (IPs). It explains the decision-making processes for the management of IPs throughout a project's life cycle. It uses IEC and ISA standards as a basis for the work processes used to achieve safe and reliable process operation, and establishes a framework for a protective management system that can be used to design and manage those specific instrumented systems. By walking the reader through a project's life cycle, engineering, maintenance, and operations, disciplines can easily focus on their responsibilities and duties. Examples are used to provide real-world experience applications. The text is a companion to an earlier published CCPS book, *Guidelines for Safe Automation of Chemical Processes*.

TP155 2006-052558 978-0-471-75400-8

Methods and reagents for green chemistry.

Title main entry. Ed. by Pietro Tundo et al.

Wiley-Interscience, ©2007 314 p. \$100.00

The Summer School on Green Chemistry was founded in 1998 to introduce young chemists to environmental problems their profession caused and some of the measures being taken to ameliorate the damage. It soon became clear that a textbook was needed, but the only written material were lecture notes from the School. These were collected, augmented, and published in a 2001 volume, which was made available free on the Internet and passed out to School students, and updated with new lectures in 2002 and 2004. Here is the latest incarnation.

BIWIC 2006; proceedings.

BIWIC (13th: 2006: Delft, The Netherlands) Ed. by Peter Jansens et al.

IOS Press, ©2006 352 p. \$100.00 (pa)

The 52 papers were presented—18 orally and 34 as posters—in sessions on crystallization as a product technology, predicting and controlling polymorph crystallization, crystallization in complex and multi-component systems, designing and operating precipitation processes, and the crystallizer of the future. Among specific topics are the optimal control of combined cooling and anti-solvent pharmaceutical crystallization, separating para-xylene from xylene mixtures with crystallization. Only authors are indexed.

TP156 2006-003675 978-1-60021-611-4

New trends in ionic (co)polymers and hybrids.

Title main entry. Ed. by Ecaterina Stela Dragan.

Nova Science Publishers, ©2007 247 p. \$145.00

Ionic polymers are present almost everywhere in the world, and have wide-ranging applications in areas such as thickening of solutions, water purification, soil conditioning, and corrosion inhibition. Dragan (Institute of Macromolecular Chemistry, Romania) collects information from the literature as well as original contributions in the field of ionic (co)polymers and hybrids such as self-assembled multilayers, ionic polymers containing azobenzene chromophore, phase separation processes, chelating ion exchangers, polymer electrolytes, functionalized solid surfaces, ionic hybrid hydrogels, and nanocomposites for polymer electrolytes. Most of the contributors are affiliated with the Institute of Macromolecular Chemistry in Romania.

TP159 978-3-527-30798-2

Mass spectra of designer drugs; including drugs, chemical warfare agents, and precursors; 2v.

Rösner, Peter et al.

Wiley-VCH, ©2007 2067 p. \$815.00

Reflecting the number and diversity of illegal drugs, two large volumes are required to present the electron-impact mass spectra (in the form of bar graphs) of each. There are 8800 mass spectra records in all, taken from 4379 compounds, including illegal and legal drugs, chemical warfare agents, and explosives, arranged in ascending order of nominal mass of the most intense fragment. For the chemical warfare agents, particular focus is placed on nerve agents. Vol.2 concludes with an exhaustive alphabetical index of all compounds. The reference has been compiled for the use of criminal and forensic investigators. The authors work in forensic chemistry and criminal investigation in Kiel and Wiesbaden, Germany.

TP242 2006-049163 0-8493-9005-2

Industrial gas handbook; gas separation and purification.

Kerry, Frank G.

CRC / Taylor & Francis, ©2007 521 p. \$169.95

Industrial gas technology consultant Kerry has written this text for practicing engineers who wish to master the field of industrial gas separation and purification. He describes techniques related to process cycles for cryogenic separation of air, adsorption processes for front-end air purification, equipment and materials, and process control and instrumentation. He also provides chapters on product liquefaction, storage, and transportation; insulation; noncryogenic separations; safety; and the economics of industrial gas separation and purification.

TP244 2006-036086 978-0-470-02725-7

Aerosol sampling; science, standards, instrumentation and applications.

Vincent, James H.

John Wiley & Sons, ©2007 616 p. \$155.00

Vincent (environmental health sciences, University of Michigan) provides an account of aerosol sampling as it is applied to the measurement of aerosols that are ubiquitous in both indoor and outdoor occupational and living environments. Early chapters describe the physical science underpinning the process of aerosol sampling. Later chapters present the basis of standards for aerosols, including in particular the link with human exposure by inhalation, and cover the development of practical aerosol sampling instrumentation. Final chapters describe the performance of sampling instruments in the field in both ambient and occupational atmospheric environments. The readership for the book includes researchers and practitioners in occupational and environmental health and hygiene, aerosol scientists and engineers, and graduate students in these fields. In addition, the book will be of interest to environmental and occupational epidemiologists, atmospheric scientists, and occupational and environmental health policy specialists.

- TP245 978-1-55899-914-5
Zinc oxide and related materials; proceedings.
 Symposium on Zinc Oxide and Related Materials (2006: Boston, MA)
 Ed. by Jürgen Christen et al. (Materials Research Society symposium proceedings; v.957)
Materials Research Society, ©2007 440 p. \$117.00
 Proceedings from the first symposium on zinc oxide and related materials, held in Boston, Massachusetts during November, 2006. The proceedings volume contains 67 contributions selected from the 200+ plus invited papers, contributed oral papers, and poster presentations, organized into sections on devices; defects; spintronics and magnetism; growth; optical properties, nanostructures; doping; processing, TFT; poster session I; and poster session II. A sampling of topics: ultraviolet photodetection properties of ZnO microtubes, temperature dependent Hall measurements on PLD thin films, electrical and magnetic properties of doped ZnO nanowires; growth and characterization of homoepitaxial ZnO thin films grown by CVD, cathodoluminescence study of indented ZnO crystals, properties of p-type ZnO grown by oxidation of Zn-group-V compounds, formation of nanovoids and nanocolumns in high dose hydrogen implanted ZnO bulk crystals, surface luminescence of polycrystalline zinc oxide excited by hydrogen atoms, and opto-electronic properties and stability of artificial zinc oxide molecules.
- TP248 2006-049541 1-58829-660-1
Animal cell biotechnology; methods and protocols, 2d ed.
 Title main entry. Ed. by Ralf Pörtner. (Methods in biotechnology; 24)
Humana Press Inc., ©2007 512 p. \$139.00
 Twenty-three chapters describe techniques for producing therapeutic proteins and vaccines, providing material lists, step-by-step instructions, and notes on potential pitfalls. New analytical techniques, particularly for cell and product analysis, are included, as well as critical details for optimizing growth in different media, for avoiding contamination, and for harvesting cell-based products. Topics of the second edition include establishment of production cell lines, cell counting and viability measurements, NMR methods for monitoring cell growth, disposable bioreactors for inoculum production, and membrane filtration.
- TP248 2006-045077 0-8493-9282-9
Biocatalysis and biotechnology for functional foods and industrial products.
 Title main entry. Ed. by Ching T. Hou and Jei-Fu Shaw.
CRC / Taylor & Francis, ©2007 563 p. \$179.95
 Hou (Microbial Genomics & Bioprocessing Research Unit, National Center for Agricultural Utilization Research, US Department of Agriculture) and Shaw (president, National Chung Hsing U., Taiwan) present 34 papers describing recent research in biocatalysis and biotechnology, a field defined so as to include enzyme catalysis, biotransformation, fermentation, genetic engineering, and product recovery. The first 15 papers address research into functional foods and include specific discussion of enzymatic purification of conjugated linoleic acid isomers, functional marine complex lipids, biofunctions of marine carotenoids, oil production from microorganisms, production of conjugated fatty acids by microorganisms, and plant sterols and their esters as functional food components, to cite a few examples. The remaining contributions are concerned with industrial products and topics addressed by them include biotransformation of aliphatic hydrocarbons and fatty acids, vegetable oil-based biodegradable industrial lubricants, enzymatic synthesis of functional lipids in organic solvent using lipase, and fermentative production of biopolymers and biosurfactants from glycerol-rich biodiesel coproduct stream and soy molasses.
- TP248 2006-029356 978-1-4144-0151-5
Biotechnology; changing life through science; 3v.
 Title main entry. Ed. by K. Lee Lerner and Brenda Wilmoth Lerner.
UXL, ©2007 1605 p. \$181.00
 This three-volume set contains some 165 color-illustrated entries, each 3-4 pages long, on the latest biotechnology applications in medicine (Volume 1), agriculture (Volume 2), and industry (Volume 3). Entries emphasize real-world implications of the technologies covered and discuss the impact that the featured area of biotechnology has had on society. In addition to specific applications, there are also entries on bioethics, government regulations, green chemistry, and pseudoscience. Each entry begins with a description of the device, practice, or issue covered, then explains scientific foundations in simple terms, overviews its history and development, and discusses current issues and controversies. Entries also include sidebars, glossary terms, cross-references, and brief lists of references in an attractive, reader-friendly layout. A timeline and a glossary are also included. Written to be accessible to middle school students, the reference will also be useful to high school and undergraduate students and their teachers, as well as general readers. K. Lee Lerner is a physicist and lecturer who has written books on science and technology. Brenda Wilmoth Lerner is a former nurse who has written or edited many books on the history and applications of science.
- TP248 2006-028339 1-59102-482-X
DNA; how the biotech revolution is changing the way we fight disease.
 Stephenson, Frank H.
Prometheus Books, ©2007 333 p. \$26.00
 Assuming a basic scientific literacy, but otherwise writing for a general audience, biochemist Stephenson describes how research advances in biochemistry and biotechnology are promising new approaches to human disease. He first discusses the basics of human genomics and then explains how they are leading to better approaches to immunity, vaccines, antibiotics, gene therapy, nuclear transfer, stem cells, and other "weapons of war" against human disease. He also discusses applications to specific diseases and conditions, including AIDS, asthma, Alzheimer's disease, cancer, diabetes, and malaria.
- TP248 978-3-527-31487-4
Flow cytometry with plant cells.
 Title main entry. Ed. by Jaroslav Dolezel et al.
Wiley-VCH, ©2007 454 p. \$190.00
 In this monograph, Dolezel (head, Laboratory of Molecular Cytogenetics and Cytometry, Institute of Experimental Botany, Czech Republic), Greilhuber (systematic and evolutionary botany, U. of Vienna, Austria), and Suda (head, Laboratory of Flow Cytometry, Institute of Botany, Academy of Sciences of the Czech Republic) provide an overview of the current state of plant flow cytometric research. Over the course of 18 chapters they cover the analysis of nuclear DNA content and its application in the determination of genome size, ploidy level, and mode of reproduction; the use of flow cytometry to estimate base composition in plant genomes; the use of flow cytometry in plant pathology; and the analysis and sorting of naked plant cells (or protoplasts) and chloroplasts. They also cover non-vascular plants and their DNA, characterization of phytoplankton, analysis of the cell cycle, endopolyploidy, analysis and sorting of mitotic chromosomes, and analysis of gene expression. The final chapter presents a plant DNA flow cytometry database and associated quantitative data.
- TP248 2006-030792 1-60021-465-7
New aspects of biotechnology and medicine. (CD-ROM included)
 Title main entry. Ed. by Alexei M. Egorov and Gennady E. Zaikov.
Nova Science Publishers, ©2007 189 p. \$129.00
 Seventy-plus European academics and researchers, the majority from Russia, contribute 18 chapters on recent research concerning biotechnology and medicine. Coverage includes the behavior of antioxidants and bioantioxidants in chemical and biological media, creation of new biochips, the behavior of enzymes in vitro and in vivo, the use of polymers for radiation treatment, cancer diagnostics, new biotests and methods of chemical and biochemical analysis, increasing trombolitic efficiency, new therapeutic agents, the use of nanotubes in biostimulators, biotechnology of receptors of antidotes, industrial production of vaccines, novel antiulcerogenic factors, analytical methods for the detection of GMOs, neuroprotective properties of agonistics of protease activated receptors, and aspect controlled release from films.

Assume that all books contain appropriate scholarly paraphernalia. We note if the book should contain, but lacks, a subject index and/or a bibliography.

- TP248 978-1-84376-762-6
The political economy of genetically modified foods.
 Title main entry. Ed. by Robert E. Evenson and Terri Raney. (Elgar mini series)
 Edward Elgar Publishing, ©2007 485 p. \$225.00
 Evenson (economics, Yale U.) and Raney (senior economist, Food and Agricultural Organization, United Nations) present 29 papers that are collectively intended to provide an overview of the main issues concerning the global political economy of genetically modified (GM) agriculture (five of which are drawn from the United Nations' Food and Agricultural Organization's publication *The State of Food and Agriculture*, 2004). The papers address the overall shape of the debate over GM foods, the basics of the technology, the characteristics of the GM industry, farmer adoption, consumer acceptance or "anxiety," health and environmental effects, regulatory structures, the emergence of markets for GM free products, economic impacts, and GM products for developing countries.
- TP248 2007-008292 978-0-8144-0923-7
Welcome to biotech nation; my unexpected odyssey into the land of small molecules, lean genes, and big ideas.
 Gunn, Moira A.
 AMACOM, ©2007 258 p. \$24.95
 As host of the National Public Radio show *Tech Nation*, Gunn was a self-admitted biotechnology neophyte when she began hosting her new show, *BioTech Nation*. In this work, she details what she has learned in the intervening period by describing advances in biotechnology and their possible applications and examining political and ethical controversies that have characterized the youthful field from the beginnings. Clearly aimed a general readership, her introduction to biotechnology combines journalistic anecdotes of her own investigations into the topic with excerpts from *BioTech Nation* interviews.
- TP359 2006-034552 978-0-89272-701-8
LNG; a level-headed look at the liquefied natural gas controversy.
 Thorndike, Virginia L.
 Down East Books, ©2007 240 p. \$15.95 (pa)
 Although natural gas supplies about a quarter of the energy consumed in the US, it is imported through only five installations. About 20 more have been proposed, but are still undergoing the application process. One of the reasons for this delay is that communities are unsure that liquefied natural gas (LNG) is environmentally friendly, safe to be processed around humans and animals, and necessary if the US begins its intentions to reduce energy use in earnest. Independent researcher Thorndike provides the arguments for both sides of the issue, explaining the LNG distribution in the US, deepwater operations, LNG carriers and their crews, LNG characteristics and hazards, questions of cost and supply, licensing, the possibility of terrorism, standards and the very different results experienced by two different regions.
- TP360 2006-052612 978-0-8412-7409-9
Ultraclean transportation fuels.
 Title main entry. Ed. by Olayinka I. Ogunsola and Isaac K. Gamwo. (ACS symposium series; 959)
 American Chemical Society, ©2007 274 p. \$175.00
 The editors (both of the US Department of Energy) present the results of two symposia on advances in the research and development of ultraclean transportation fuels that were held as part of the 2001 and 2005 Fall National Meetings of the American Chemical Society. The 17 included papers address basic fundamental and applied research of production from various feed-stocks, novel methods of upgrading for meeting strict environmental standards and fuel specifications, utilization in environmentally sound ways, advances in development of new catalysts for more efficient and cost-effective processes, and computational fluid dynamics modeling to enhance reactor design and optimize transportation fuels reactors. Distributed in the US by Oxford U. Press.
- TP370 2006-101711 978-0-8493-9286-3
Computational fluid dynamics in food processing.
 Title main entry. Ed. by Da-Wen Sun. (Contemporary food engineering series)
 CRC / Taylor & Francis, ©2007 739 p. \$199.95
 Computational fluid dynamics (CFD) calculations, which use a computational grid to solve the governing equations describing fluid flow (i.e. the continuity equation and the set of Navier-Stokes equations) and additional conservation equations, can serve as a powerful design and analysis tool for food engineers concerned with processes involving fluid flow and heat and mass transfer, such as mixing, drying, cooking, sterilization, chilling, and cold storage. In this work, Sun (director, food refrigeration and computerized food technology, National U. of Ireland) presents 28 chapters that describe the application of CFD to food engineering. Following the overview, seven chapters describe CFD applications in analyzing and optimizing cold-chain facilities. The focus in the next nine chapters then shifts to modeling of drying and heating processes and analysis of heat exchangers. The remaining chapters describe applications in separation, jet impingement, extrusion, high-pressure processing, mixing, tea fermentation, equipment hygiene, biosensors, packaging, and cheese ripening.
- TP370 2006-025184 978-0-470-04964-8
Handbook of food products manufacturing; 2v.
 Title main entry. Ed. by Y. H. Hui.
 Wiley-Interscience, ©2007 1131 p. \$500.00
 This very impressive two-volume work presents descriptions of food product manufacturing, legal issues, specific ingredients, and food flavors. The 54 chapters that are devoted to the manufacturing of specific food products feature bakery, beverages, rice, noodles, cheeses, confectionery, fats and oils, fruits and juices, and functional foods in v.1 and meat, milk, poultry, seafood, and vegetables in v.2. Each of these chapters discuss background information on growing and harvesting, storage, varieties, and other issues before turning to aspects of production, including physico-chemical characteristics, and processing. Apple production, as an example, is considered for juice and cider, slices, applesauce, frozen, and dried. Newer food technologies are also included—processed fresh-cut fruits, for example—as are issues related to food production such as sanitation, quality assurance, sensory quality, and genetic engineering. A separate chapter is included on the standard industrial classification for food manufacturing in the U.S. Chapters are also included on food establishment inspection in the U.S. and all FDA food-related regulations. Each chapter concludes with a lengthy bibliography. Written by over 200 specialists worldwide, this thorough, well-rounded reference will be of use to food manufacturers, academics, and government and industrial professionals, as well as undergraduate and graduate students.
- TP371 2006-027648 978-0-8138-2968-5
Advances in thermal and non-thermal food preservation.
 Title main entry. Ed. by Gaurav Tewari and Vijay K. Juneja.
 Blackwell Publishing, ©2007 281 p. \$184.99
 The technology of food preservation has advanced far beyond the thermal technique of cooking with fire and non-thermal techniques such as pickling. In this volume, Tewari (CEO and president, Tewari De-Ox Systems, Inc.) and Juneja (supervisory microbiologist and lead scientist for the US Department of Agriculture's Eastern Regional Research Center) present 13 paper that describe advanced thermal and non-thermal techniques of food preservation and place a special emphasis on considerations of commercialization of said techniques. In the realm of thermal techniques, contribution discuss thermal processing of liquid foods with or without particulates, aseptic processing, microwave and radio-frequency heating, novel thermal processing technologies, and *sous-vide* ("under vacuum") and cook-chill processing of foods. Nonthermal techniques discussed include active packaging, ozone treatment, electronic pasteurization, high-pressure processing, and pulsed electric fields.

- TP372 978-90-868601-2-8
Food product design; an integrated approach.
 Title main entry. Ed. by Anita R. Linnemann and Martinus A.J.S. van Boekel.
Wageningen Academic Publishers, ©2007 236 p. \$48.00 (pa)
 This textbook helps professionals and students create food products efficiently and effectively by taking a systematic approach at the first stages that pays off until the last bit off the production line is bought and consumed. Topics include the reasons why designers need to take a systematic approach, methods of creativity and innovation that take consumers' opinions and business needs into account, quality function development techniques, key responses to foods and way to model them, food packaging design, barrier technology and aspects of hygienic design, product life cycle assessment and how it applies to food product design, and managing information and knowledge about food products. This includes a fascinating case study of a prototypical ready-to-eat meal. Distributed in the US by Enfield Distribution Co.
- TP374 2006-036529 978-0-8138-1944-0
Packaging for nonthermal processing of food.
 Title main entry. Ed. by Jung H. Han. (IFT Press series)
Blackwell Publishing, ©2007 235 p. \$149.99
 North American and Dutch food scientists discuss the special packaging requirements that are necessary to prevent the chemical, physical, or microbial degradation of foods that have not been thermally processed. Among their topics are the role of active packaging, foods treated by ionizing radiation, and radio frequency identification systems for packaged foods. The 10 papers are from two symposia at the July 2005 annual meeting of the Institute of Food Technologists, held in New Orleans.
- TP450 978-3-527-31406-5
Flavourings; production, composition, applications, regulations, 2d rev.ed.
 Title main entry. Ed. by Herta Ziegler.
Wiley-VCH, ©2007 827 p. \$290.00
 Ziegler, a researcher in the private sector, presents work by 40 contributors on industry and academia for an overview of the production, processing, composition, and application of various food flavorings. There is information on raw materials of natural, biotechnological, and synthetic origin, as well as information on toxicological, legal, and ethical aspects of the field, quality control methods and systems, and conventional and innovative analytical techniques employed in the field. This second edition is revised and expanded to discuss current advances in the field in processing and applications, and contains new material on the use of flavorings in convenience foods and the topic of aroma analysis.
- TP670 2006-026196 978-1-893997-92-9
Deep frying; chemistry, nutrition, and practical applications, 2d ed.
 Title main entry. Ed. by Michael D. Erickson.
AOCS Press, ©2007 447 p. \$99.00
 Chemists and food scientists from the food and edible oil industries and from universities explore a range of topics relating to deep frying food. Among them are the flurry to develop low- and no-trans oils and shortenings for frying, storage and handling of finished frying oils, volatile odor and flavor components formed in deep frying, physiological effects of *trans* and cyclic fatty acids, food-service frying, designing field frying tests, and environmental concerns. The first edition was published 11 years ago.
- TP690 2006-039245 978-0-8493-7419-7
Hydroprocessing of heavy oils and residua.
 Ancheyta, Jorge and James G. Speight.
CRC / Taylor & Francis, ©2007 345 p. \$169.95
 Refiners are finding that heavy oils and residua, once wasted, can provide significant value with high yields and quality, particularly when hydroprocessed. Combine these characteristics with the recent and coming shortages of fuel oil, and it is clear the time for this collection of 11 articles has come. Contributors describe their research in the characteristics of heavy oils and residua, feed stock evaluation and composition, hydroprocessing chemistry, the thermodynamics of hydroprocessing reactions, reactors for hydroprocessing, characteristics of heavy oil hydroprocessing catalysts, including Maya heavy crude oil, the effects of feed stock composition, hydroprocessors, commercial treating and cracking, and hydrogen production.
- TP690 2006-027841 978-0-8493-7038-0
Petroleum refining; technology and economics, 5th ed.
 Gary, James H. et al.
CRC Press, ©2007 463 p. \$89.95
 Gary (petroleum refining, emeritus, Colorado School of Mines) presents basic aspects of current petroleum refining technology and economics for ready reference by technical managers, practicing engineers, university faculty members, and graduate or senior students in chemical engineering. He describes physical and chemical properties of petroleum and petroleum products, along with major refining processes. Data for determination of typical product yields, investment, and operating costs for all major refining processes and for supporting processes are given. Case studies and problems are included, and appendices contain basic engineering data and a glossary. This fifth edition takes new environmental aspects of the industry into account, and reflects the use of heavier crude oils and crude oils with higher sulfur and metal content.
- TP807 2007-270546 978-0-87849-424-8
Layered, functional gradient ceramics, and thermal barrier coatings; design, fabrication and applications; proceedings.
 SICMAC Summer School on Layered, Functional Gradient Ceramics, and Thermal Barrier Coatings (2006: Mahon, Spain) Ed. by M. Anglada et al. (Key engineering materials; v.333)
Trans Tech Publications, ©2007 296 p. \$182.00 (pa)
 Given the importance of specialty ceramics in a wide range of industries, particularly in electronics, these proceedings of the June 2006 event presented by Structural Integrity of Ceramic Multilayers and Coatings (SICMAC) serve to meet the need for more engineers with a basic understanding of the field and will also serve to inspire more to specialize in this growing field. These 40 or so papers and posters are unique because they include an overview of the fundamentals as well as leading-edge research, describing the design and processing of multilayers and functionally graded materials, the structural integrity of multilayers, the processing and lifetime assessment of thermal barrier coatings and the fatigue, damping and high temperature behavior of coatings and multilayers. Specific topics include laminate processes, water-based colloidal processing, misted chemical solution deposition, quantitative analyses of processes, reports of performance and analysis of failures, and a variety of models.
- TP873 978-1-55899-913-8
Diamond electronics—fundamentals to applications; proceedings.
 Title main entry. Ed. by Diamond Electronics—Fundamentals to Applications Symposium (2006: Boston, MA) Ed. Philippe Bergonzo et al. (Materials Research Society symposium proceedings; v.956)
Materials Research Society, ©2007 283 p. \$115.00
 These proceedings of the November 2006 symposium include such topics as the fundamentals of the growth and characteristics of diamond, nanocrystalline diamond and diamond-like carbon, doping diamond to create n-types or p-types (or even superconductors), the type of surface chemistry displayed by diamond in both gaseous and liquid environments, the types of defect centers that form in diamond and controlling spin states in diamond. Papers on applications address such topics as the formation of chemical and biochemical sensors, diamond diodes, transistors, radiation detectors, and photodetectors and the use of diamond within quantum information processing, including applications in cryptography. This volume includes almost half of the papers presented with overviews of all topics.
- TP968 978-90-6764-453-2
Polymer surface modification; relevance to adhesion; v.4.
 Title main entry. Ed. by K. L. Mittal.
VSP Publications, ©2007 305 p. \$198.00
 A June 2005 international conference in Toronto is documented in 18 papers that discuss surface modification techniques and improving adhesion to polymer surfaces. Their topics include pre-treating and modifying the surface of polymers with atmospheric-pressure plasma jet treatment, a comparison of polyethylene and polystyrene treated by ozone at different temperatures, wool surface modification and its influence on related functional properties, dip-coating textile materials with magnetic nanoparticles, novel approaches to enhancing the adhesion of cellulose, and detecting contaminants on polymer surfaces using laser-induced breakdown spectroscopy. There is no index. VSP is a subsidiary of Brill.

TP1087 2006-021605 1-60021-346-4
Recent developments in polymer research.

Title main entry. Ed. by Anthony V. Hopper.
Nova Science Publishers, ©2007 257 p. \$129.00

Hopper compiles eight articles that focus on polymer research and describe recent changes in the field. The articles, which are by scientists from around the world, study the electrical and magnetic behavior of homometallic and heterometallic polymers, synthesis and characterization, multiple melting behavior, and the application of coupling reagents in polymer synthesis. Others focus on UV-curable polydimethylsiloxane epoxy acrylate, sorption phenomena of organic solvents on polymer surfaces, polyester type shape memory polymer, and the potential of chemiluminescence in the research of thermal oxidation.

TP1180 978-90-6764-454-9

Polyimides and other high temperature polymers; synthesis, characterization and applications; v.4.

Title main entry. Ed. by K.L. Mittal.
VSP Publications, ©2007 425 p. \$189.00

Based upon papers presented at the November 2005 symposium, this reflects the high level of activity in research and development in this field ranging from microelectronics to adhesives and nanocomposites, including synthesis and bulk characterization, surface and interface aspects of composites and metallization, and a respectable number of new applications. Specific topics include the synthesis and characterization of new fluorinated polyimides, imidization of polyester-amine salt precursors to polyimides, liquid crystalline structures and crystallization morphology in aromatic bismides and their blends with semicrystalline polyimide, Ceramide materials for advanced high-performance and high-temperature applications, polyimide matrices for carbon-to-carbon composites with turbostatic structures, molecular assembly of polyimides and oligoimides with direct covalent bonding, and electroless metallization of polyimides. Applications include energy storage and textile production. VSP is a subsidiary of Brill.

PHOTOGRAPHY

TR263 2006-925872 0-470-03748-2

Nikon D200 digital field guide.

Busch, David D.
John Wiley & Sons, ©2006 262 p. \$19.99 (pa)

Professional photographer Busch explains the built-in controls and menus for taking advanced photographs with the D200 digital SLR camera and walks through techniques for adjusting exposure, focus, color, lenses, and light. Color images illustrate different options for photographing animals, architecture, events, holiday lights, portraits, landscapes, night scenes, sports, and street life.

TR267 2006-925873 0-471-78264-5

Adobe Camera Raw studio skills.

Lowrie, Charlotte K.
John Wiley & Sons, ©2006 348 p. \$34.99 (pa)

A team of professional photographers introduce the Adobe Camera Raw plug-in for Photoshop CS3 as "the new frontier of photography." For those with a digital SLR camera and well-exposed RAW images, they cover techniques of working with RAW files from automating file naming with the Bridge tool through RAW conversion strategies to printing. The color-coded guide includes a glossary; appended overviews of Camera Raw, Adobe Bridge, plug-ins for Adobe updates; resources; and contributors' contact information. Since the book's publication, Adobe released Camera RAW version 4.1.

TR267 2007-270939 978-1-59059-612-8

Building Flickr applications with PHP.

Kunkle, Rob and Andrew Morton. (Expert's voice in open source)
Apress, ©2006 194 p. \$34.99

Open-source software is often of very high quality, but sometimes users must search in vain for a strong reference to guide them to and through the more advanced features. This handbook fills that gap between anticipation and production by giving those who wish to make the best use of Flickr's enormous photo cache (and of course their own favorite snaps). Practitioners and photography enthusiasts Kunkle and Morton keep the fact that readers may have had limited experience with open-source software, graphic design, photography and collaborative technology in mind as they describe the software and its attendants, discuss features, show how to install the works, including Apache, PHP and Flickr, work with PHP and photos, organize photo sets, use semantic tags, get through Real Simple Syndication feeds and other syndication, and add collaborative features to websites with Flickr Groups.

TR267 2006-280756 0-596-10158-9
Photoshop elements 4; the missing manual.

Brundage, Barbara.
O'Reilly Media, Inc., ©2006 493 p. \$39.95 (pa)

Photoshop Elements may be a cool program, but the "manual" that comes with it is really a quick reference guide and its help files assume some familiarity with the software. With well-illustrated chapters focusing on each type of task involved in editing, organizing, and displaying digital photos, the author of *Elements 3: The Missing Manual* offers tips on the basics plus getting freebies from the Internet. Appendices cover the Organizer and Editor features menu-by-menu, installation and troubleshooting. Photoshop Elements 5 has come out since this guide's publication.

TR655 2007-295934 1-931707-88-X

Closely observed; photographs of the natural world.

Baldeck, Andrea.
U. Penn/Mus. of Archaeo & Anth., ©2006 175 p. \$49.95

Baldeck has traveled widely capturing the wonders of the natural world. Her stunning b&w close-ups of plants include flowers reminiscent of those painted by Georgia O'Keefe and common vegetation that appears as intriguing abstract patterns. Perhaps her detail orientation owes something to her also being a physician. The finely printed, landscape-formatted volume includes a visual index of thumbnail images of these 178 photographs.

TR897 978-0-470-13113-8

Flash video for professionals; expert techniques for integrating video on the web.

Larson, Lisa and Renée Costantini.
Syber, Inc., ©2007 362 p. \$39.99 (pa)

Intended for intermediate developers comfortable with ActionScript 2, this guide explains the details of encoding video into the Flash live video (FLV) format, planning a Flash video application for a client, and learning object-oriented programming for ActionScript 3. The authors review the basic code for playing a video in Flash, outline testing procedures, discuss playlist options and cue points, and explore video effects using filters and masks.

TR899 978-0-321-50912-3

Final Cut Pro 6; beyond the basics. (DVD-ROM included)

Wohl, Michael. (Apple Pro training series)
Peachpit Press, Inc., ©2008 678 p. \$54.99 (pa)

Color graphics complement this reference on Apple's Final Cut Pro 6, which adheres to the curriculum for the Apple Certified Pro exam. Each section teaches a specific task designed to give users versed in basic procedures the ability to fine tune their video editing projects. The accompanying DVD-ROM provides the teaching software to complete tutorials described in the book.

TR899 0-321-50265-5

Final Cut Pro 6. (DVD-ROM included)

Weynand, Diana. (Apple pro training series)
Peachpit Press, Inc., ©2007 631 p. \$54.99 (pa)

Part of the official curriculum of the Apple Pro Training and Certification Program, this text teaches the fundamental techniques of video editing using Final Cut Pro 6. Each of 14 chapters is a self-contained lesson aimed at beginning to intermediate users. Tasks covered include finishing the rough cut, refining clip duration, capturing footage, mixing audio tracks, and applying filters. Project files needed to complete the lessons are found on the accompanying DVD-ROM.

TR899 0-321-50940-4

Motion graphics and effects in Final Cut Studio 2. (DVD-ROM included)

Spencer, Mark and Jem Schofield.
Peachpit Press, Inc., ©2007 612 p. \$54.99 (pa)

This guide for editors and designers details the features of Final Cut Studio, LiveType, and Motion for use in creating motion graphics. Sixteen lessons cover practical techniques for adding professional-quality titling, motion graphics, and other effects to projects. These include creating a DVD menu, and compositing, with tips on animation, 3D, manipulating video, keying, paint, and audio. A basic familiarity with Mac OS X operating system and Final Cut Pro is assumed. The DVD-ROM contains lesson and media files. Spencer, an Apple Certified Trainer, is a producer, editor, teacher, and writer. Schofield, an Apple Certified Master Trainer, is a producer and creative director who teaches and consults on production and post-production.

TS155 2006-039660 978-1-59904-039-4

Mass customization information systems in business.

Blecker, Thorsten and Gerhard Friedrich. (Premier reference source)
Information Science Reference, ©2007 313 p. \$165.00

Mass customization combines product customization according to individual consumer needs with concerns of cost efficiency. Blecker (Hamburg U. of Technology, Germany) and Friedrich (U. of Klagenfurt, Austria) present 13 chapters that explore some of the information technology and other tools available for mass customization. The chapters are organized into three sections that discuss product configuration and modeling for mass customization, mass customization information systems organized across the supply chain, and new approaches to mass customization like knowledge-based and fuzzy cognitive maps.

TS156 2007-012267 978-0-87389-709-9

The certified quality process analyst handbook.

Christensen, Eldon H. et al.
ASQ Quality Press, ©2007 398 p. \$60.00

Certified Quality Process Analysts are paraprofessionals who analyze and solve quality problems and are involved in quality improvement projects. They support and work under the direction of quality engineers or supervisors. This handbook is designed to help recent graduates and those with work experience prepare to take the certification examination. It offers detailed coverage of each of the four main sections of the CQPA Body of Knowledge: quality basics; problem solving and improvement; data analysis; and customer-supplier relations.

TS171 2006-030573 978-1-4195-8331-5

Financial management for design professionals; the path to profitability.

Wintner, Steve L. and Michael Tardif.
Kaplan Publishing, ©2007 193 p. \$49.95 (pa)

Architectural practitioners Wintner and Tardif write for those who do not know the basics of financial management for small to medium sized businesses, starting by explaining the importance of knowing essential financial concepts and how to apply them. They cover terminology, roles and responsibilities, the process of developing an annual budget and profit plan, the top performance indicators (utilization rate, overhead rate, break-even rate, net multiplier, aged accounts receivable, profit-to-earnings ratio and net revenue per employee), calculating hourly billing rates and developing project fee budgets, the profit and loss statement and balance sheet, and for those so inclined, financial management software.

TS174 2006-053162 978-0-8311-3332-0

Improving reliability and maintenance from within; how to be an effective internal consultant. (CD-ROM included)

Thomas, Stephen J.
Industrial Press, ©2007 347 p. \$44.95

Internal consultants may be called project managers, special projects coordinators, team leaders, or other names. In this book/CD-ROM package, Thomas, a change management consultant, explains the role of internal consultants and the many tasks they undertake. He gives advice to help internal consultants improve their performance and deliver greater value, and provides a tool that will help them recognize their strengths and their areas that need improvement. The book will be of interest to upper management looking to understand and harness the power of internal consulting, middle-tier reliability and maintenance managers, and those who hold "special projects" positions.

TS183 2006-030545 978-0-8493-3216-6

Materials processing handbook.

Title main entry. Ed. by Joanna R. Groza et al.
CRC / Taylor & Francis, ©2007 — p. \$149.95

Groza (materials science, University of California-Davis) provides broad coverage of a number of materials processes associated with solid materials including ceramics, polymers, metals, composites, and semiconductors. Contributors from the US, Europe, and Australia examine traditional as well as novel processes are covered, from the nanometer scale to the macroscopic. The goal of the book is to present fundamentals of a particular materials process by emphasizing the relationship between processing, structure, and property. Principles of thermodynamics, phase transformations, mechanisms, and kinetics of energy and mass transport are defined for each process category. Simulation and modeling of materials processes are also covered in each chapter. Fundamentals are illustrated with practical examples, case studies, and applications for each materials process covered. Mechanics and design aspects of processes are deemphasized, and materials processes which have minimal or no associated microstructural change are not covered. The book is for engineers, scientists, and students.

TS195 2006-004539 0-471-72016-X

Packaging design; successful product branding from concept to shelf.

Klimchuk, Marianne Rosner and Sandra A. Krasovec.
John Wiley & Sons, ©2006 262 p. \$45.00

This book is designed to serve as a guide for manufacturers, marketers, designers, printers, and other professionals involved in the world of consumer branding. It details professional roles and design methodology, providing an understanding of how packaging designs are developed and how they function as the marketing vehicle for consumer products. Chapters cover areas including visual elements, design principles, and legal, environmental, and global issues that impact packaging design. The b&w art program (with a section of color photos) includes typographic studies, concept sketches, display panels, packaging redesigns, and case studies. The book will be of interest to faculty and students in disciplines such as packaging and graphic design, marketing and communications, advertising, and industrial design. Klimchuk and Krasovec are both affiliates with the Packaging Design Department at the Fashion Institute of Technology, the only institution in the US that offers a BFA degree in packaging design.

TS227 2006-940582 978-0-87339-661-5

Friction stir welding and processing; proceedings.

Symposium on Friction Stir Welding and Processing (4th: 2007: Orlando, FL) Ed. by Rajiv S. Mishra et al.
TMS (Minerals, Metals...Soc.), ©2007 472 p. \$83.00 (pa)

Forty-seven papers from the February 2007 symposium investigate the efficacy of the solid state welding method invented in 1991 and application of the controlled path metal working process to microstructural modification of local areas on the surface of a part. Topics include friction stir welding of an aluminum coal hopper railcar; friction stir joining of thermoplastics, numerical simulation of a refill fraction stir spot welding process, and liquid metal embrittlement of MP-159 pin tools. Black and white images of welds and micrographs are provided.

TS227 2006-279608 0-8493-3591-4

Welding symbols on drawings. (reprint, 1982)

Gregory, E. N. and A. A. Armstrong.
CRC Press, ©2005 55 p. \$129.95 (pa)

Two former associates of the British Standards Institution explain the ISO and AWS symbols for indicating the location, length, thickness, and penetration of butt, fillet, edge, flare groove, plug, spot, and seam welds on engineering drawings. Four exercises in the conversion of information to symbols and the interpretation of drawings complete the slim book. Originally published in 1982 as *Weld symbols on drawings*. This reprint is co-published by Woodhead (UK) and CRC Press.

TS533 2007-296205 978-0-7456-3692-4

The gun that changed the world.

Kalashnikov, Mikhail. Trans. by Andrew Brown.

Polity Press, ©2006 175 p. \$19.95 (pa)

This is an "as-told-to" autobiography of Mikhail Kalashnikov, the Soviet weapons designer who invented arguably the most successful assault rifle in the world, the AK-47. Kalashnikov's narrative is straightforward and remarkably unreflective, describing his youthful escape from Siberia, where his family had been exiled while he was still a child; his military experiences as a soldier in a tank regiment; his invention of the AK-47; and his later life living through the turbulent decline and dissolution of the Soviet Union in a rather matter of fact manner. Distributed in the US by Blackwell Publishing. First published in France as *Ma Vie en Rafales* (2003).

TS1548 2006-280087 0-8493-2592-7

Synthetic fibres; nylon, polyester, acrylic, polyolefin.

Title main entry. Ed. by J.E. McIntyre. (Woodhead Publishing Limited series on fibres)

CRC Press, ©2005 300 p. \$229.95

This volume on synthetic fibers focuses on nylon, polyester, acrylic, and polyolefin, with separate chapters on the development and present status of each class. McIntyre, formerly at the U. of Leeds, UK, in the field of textile industries, brings together five chapters by fiber and textile experts from the UK and US, who review the development of synthetic fibers, and the chemical structure, polymerization, production, properties, techniques, applications, and other details of each. The book is meant for textile technologists in industrial and academic research, chemical and synthetic fiber suppliers, and yarn and fabric manufacturers. Published in the US by CRC Press and Woodhead Publishing in association with the Textile Institute in England.

TS1925 2007-008123 978-0-8155-1528-9

Compounding precipitated silica in elastomers.

Hewitt, Norman.

William Andrew Publishing, ©2007 580 p. \$249.00

Hewitt (formerly of PPG Rubber Research) provides an overview of the chemical principles of silica compounding. Following a description of precipitated silica properties and their relationship to elastomer processing and reinforcement, chapters describe methods for compounding silica in natural rubber, emulsion styrene butadiene rubber, solution styrene butadiene rubber, ethylene propylene rubbers, neoprene, and nitrile. Each of these chapters discuss crosslinking or acceleration systems, zinc-free curing, surface area effects, and processing characteristics and provide comparison discussion of compounding using carbon black instead of precipitated silica. Further, they look at applications relevant to tear and aging resistance, adhesion, and low rolling resistance in tire treads. Each chapter also contains formulary recommendations for silica-reinforced compounds over a range of hardness.

TS1963 2006-022924 1-59102-450-1

Slaughterhouse; the shocking story of greed, neglect, and inhumane treatment inside the U.S. meat industry.

Eisnitz, Gail A.

Prometheus Books, ©2007 328 p. \$19.00 (pa)

This work by Eisnitz (chief investigator, Humane Farming Association) is a journalistic exposé of the US meat industry that relies heavily on the testimony of slaughterhouse and meatpacking workers in order to provide a disturbing picture of inhumane treatment of animals, unsafe working conditions, and practices that pose health threats to consumers. Eisnitz also investigates the political and economic decisions that gave rise to these problems. This is a paperback edition of a work first published in 1997.

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FOOD CULTURE, NUTRITION

TX357 2006-026616 978-1-933392-11-0

The revolution will not be microwaved; inside America's underground food movements.

Katz, Sandor Ellix.

Chelsea Green Publ. Co., ©2006 378 p. \$20.00 (pa)

This book surveys different forms of food activism in the United States while simultaneously criticizing the agribusiness and other corporate practices that have sparked these activist efforts. It describes efforts to get consumers to eat only local and seasonal foods, seed-saving as a form of resistance to agricultural intellectual property laws, labor and land movements, the slow food and raw food movements, food and alternative health practices, the use of marijuana and other prohibited plants in food, vegetarianism, and food foragers. Each chapter includes lists of organizational resources.

TX359 2005-036137 1-59454-957-5

New issues in food policy, control, and research.

Title main entry. Ed. by Arthur P. Riley.

Nova Science Publishers, ©2007 177 p. \$79.00

This volume brings together a varied collection of recent work in the food and agricultural sciences. Topics addressed by the seven chapters include the role of a natural antimicrobial system in goat milk and goat milk products, effect of heat treatment on the microbiology and quality of fresh filled pasta, advanced soft control strategies in food processing, traceability and the control and decontamination of ochratoxin A in food processing, Maillard-type neoglycoproteins with multi-functionalities and food safety, recent considerations on *helicobacter bylori*, and welfare measures and mandatory regulation for transgenic food in the European Union.

TX360 2007-003464 978-0-8493-1473-5

Nutrition in public health; principles, policies, and practice.

Spark, Arlene.

CRC / Taylor & Francis, ©2007 552 p. \$119.95

The purpose of Spark (Hunter College) in writing this book was to provide public health professionals with an overview of the field of public health nutrition, with a focus on the US government's role in determining nutrition policy and practice. She covers the principles of the field in chapters discussing the population of the United States, nutritional epidemiology, food and nutrition surveys for monitoring public health, programs to reduce disparities in the prevalence of diet-related chronic disease, weight control challenges and solutions, and special populations issues. She then discusses food and nutrition politics, policy, and legislation in the United States and the federal government's food and nutrition guidance systems. Finally, she addresses the practice of public health nutrition in five chapters that present the tools for conducting a food and nutrition assessment of a community, designing and carrying out a social marketing campaign, writing grant proposals, and creating programs to promote food security and ensure the safety of the food supply.

TX360 2006-014759 978-1-60021-236-9

Resetting the kitchen table; food security, culture, health and resilience in coastal communities.

Title main entry. Ed. by Christopher C. Parrish et al.

Nova Science Publishers, ©2007 247 p. \$79.00

This collection of 12 papers originates out of "Coasts Under Stress," a five-year project funded by the Social Sciences and Humanities Research Council of Canada and the Natural Science and Research Council of Canada that used complementary case studies on the east and west coasts of Canada to achieve an interdisciplinary, integrated analysis of the long- and short-term impacts of socio-environmental restructuring on the health of people, their communities, and the environment. The focus of this volume is on the issue of food security. Some included papers explore biophysical aspects of marine food, including food webs and fish-fisheries dynamics, marine food webs and human impacts, food web modeling, and aquaculture practices and their effects on ecological integrity and food security. Others address dynamics of livelihoods and food production and include discussion of hunting practices, the relationship between legislation and food security, the role of commercial food and its role in environmental and social restructuring. Also addressed are cultural aspects of food production, food use, and food security, as well as the regulation of food production and food access.

TX361 2006-036589 978-0-7360-4812-5
Fitness nutrition for special dietary needs.
Volpe, Stella Lucia et al.
Human Kinetics Pub., ©2007 186 p. \$34.95 (pa)
Volpe (University of Pennsylvania), Sabelawski (University of Massachusetts), and Mohr outline nutrition recommendations and meal plans for active children and elderly, female and vegetarian athletes, and patients with diabetes or eating disorders. The last chapter discusses the needs of those who exercise in hot weather, cold conditions, or high altitude.

TX531 2007-005642 978-1-59884-048-3
Food safety; a reference handbook, 2d ed.
Redman, Nina E.
ABC-CLIO, ©2007 331 p. \$55.00
After over-viewing the history and status of food safety, college librarian Redman presents a chronology; biographical sketches of major figures such as Rachel Carson, van Leeuwenhoek, Louis Pasteur, and Upton Sinclair; facts and statistics about specific toxins; a directory of organizations; and annotated bibliographies of print and non-print sources. Originally published in 2000, the second edition reprints sections from the FDA model food code of 2005 on HACCP plans, the Bioterrorism Act of 2002, and EPA rules on concentrated animal feeding operations.

TX541 2006-022511 978-1-4051-2127-9
The chemical physics of food.
Title main entry. Ed. by Peter Belton.
Blackwell Publishing, ©2007 247 p. \$174.99
Belton (chemistry, University of East Anglia, UK) brings together international contributors to demonstrate a chemical physics approach to food. Combining the applications of chemical and physical methods with the quantitative consideration of data, the book covers major materials such as emulsions, starches, powders and granular materials, gels, and gluten, and also examines water transport and dynamics in food. The book is of interest to those involved in research into food structure, including food scientists, food technologists, food chemists, and physicists.

TX553 978-92-5-105426-0
Safety evaluation of certain contaminants in food; proceedings.
Meeting of the Joint FAO/WHO (64th: 2005) (WHO food additives series; no.55)
World Health Organization, ©2006 778 p. \$63.00 (pa)
Presented here are monographs from scientists around the world, based on working papers, from the proceedings of the 64th meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA), held in Rome, Italy, in February of 2005. Six food contaminants or groups of contaminants were evaluated at the meeting: acrylamide, cadmium, ethyl carbamate, inorganic tin, polybrominated diphenyl ethers (PBDEs) and polycyclic aromatic hydrocarbons (PAHs). The monographs summarize the data reviewed, including metabolism and toxicity, epidemiology, analytical methods for measurement, sampling protocols, effects of processing, levels and patterns of contamination, food consumption, and prevention and control. The volume is intended for the Codex Alimentarius, government and food regulatory officers, industrial testing laboratories, toxicological laboratories, and universities. There is no index.

MILITARY & NAVAL SCIENCE

U393 2007-008128 978-0-8108-5991-3
Science in uniform, uniforms in science; historical studies of American military and scientific interactions.
Title main entry. Ed. by Margaret Vining and Barton C. Hacker.
Scarecrow Pr., ©2007 163 p. \$35.00 (pa)
Military and science and technology historians explore selected connections between science and military in the US from the Revolution through the Cold War. Their topics include smallpox inoculation in Washington's army, the electoral response to the naval revolution, Albert B. Sabin and the conquest of epidemic disease, the rise of big engineering during World War II, and global metrology 1961-80. The anthology was generated by the crossing of a temporary Army exhibition at the Smithsonian with a session at the January 2004 meeting of the American Historical Association in Washington, DC.

U793 2006-039722 978-0-7425-5502-0
From lambs to lions; future security relationships in a world of biological and nuclear weapons.
Preston, Thomas.
Rowman & Littlefield, ©2007 421 p. \$90.00
Preston (political science, Washington State U.) examines the methods and prospects of small states using unconventional weapons to protect themselves against predation by powerful states. He discusses the challenges for such states; nuclear proliferation, deterrence, and evolving security relationships; options and constraints on new nuclear states; biological proliferation and the future of warfare; options and constraints on new bioweapon states, and policy recommendations.

UF820 978-1-84564-077-4
Computational ballistics III; proceedings.
International Conference on Computational Ballistics (3d: 2007: The New Forest, UK) Ed. by C.A. Brebbia and A.A. Motta. (WIT Transactions on Modelling and Simulation; v.45)
WIT Press, ©2007 231 p. \$165.00
The 21 papers presented here by Brebbia (Wessex Institute of Technology, UK) and Motta (Brazilian Navy Research Institute, Brazil) originated from the Third International Conference on Computational Ballistics, which was held in the UK in June of 2007. The papers are organized into sections covering fluid flow aerodynamics, interior ballistics, terminal ballistics, experimental mechanics/ballistics and field testing, new developments in computational techniques, and systems and technology. Examples of specific topics include fast calculation of direct fire trajectories taking the earth's rotation into account, an aerodynamic model for projectile flight simulation using unsteady time accurate computational fluid dynamic results, suppression of axial combustion instability in solid rocket motors, stochastic study of 60-mm gun-projectile responses, a method to increase the tip velocity of a shaped charge jet using a hollow cavity, offshore platforms survivability from underwater explosions, scalable parallel computation of explosively formed penetrators, data mining in military systems, and analysis of weapon systems protecting military camps against mortar fire. The US office of WIT Press is Computational Mechanics.

VK15 2006-030623 978-1-57409-240-0
Do dolphins ever sleep?; 211 questions and answers about ships, the sky and the sea.
Bely, Pierre-Yves and Sally Bely.
Sheridan House, ©2007 294 p. \$19.95 (pa)
This book answers such intriguing questions as the title one and others about the sea, sky, weather, ships, and sailing. While reminiscent of David Feldman's "Imponderables" series (e.g., *Do Penguins Have Knees?*), this treatment is well-illustrated, referenced, and written by a sailor/engineer. S. Bely translated and adapted this edition from *250 Réponses aux questions du marin curieux*, published by Éditions du Gerfaut, Paris, 2004.

VM770 2007-012705 978-0-87033-590-7
Marine diesel engines.
Charnews, Dan P.
Cornell Maritime Press, ©2007 214 p. \$35.00
Charnews (marine engineering, US Merchant Marine Academy) offers a textbook for a one-semester course in marine diesel engines for students who have a prior understanding of mechanical drawing, introductory thermodynamics, and the basics of diesel engines. He stresses basic generic principles for all engines, using simple explanations and diagrams. A compact disk is available with high-resolution pictures.

PUBLISHING, LIBRARY SCIENCE, BIBLIOGRAPHY

Z49 978-0-538-44530-6
Digitools; technology application tools, 2d ed.
Barksdale, Karl et al.
South-Western College Pub., ©2008 640 p. \$73.95
After introducing touch keyboarding and 10-keypad skills, this high school textbook illustrates how to create documents in Word, presentations in PowerPoint, spreadsheets in Excel, databases in Access, and web pages in Google Page Creator. The second edition covers Office 2007 and Windows Vista, and adds chapters on OneNote and desktop publishing.

Z249

0-88362-563-6

Digital prepress primer.

Marin, Joseph.

PIA/GATF, ©2007

114 p. \$30.00 (pa)

Only about 25 years ago, the pre-press process was controlled by a small corps of specialists who crouched over light tables to cut film by hand, created plates from hard copy made of paper, sticky wax and white paint that covered the sweat marks and fingerprints, and performed other arcane arts in the murk of darkrooms. Practitioner and teacher Marin keeps the core of what those hardy folks knew, especially that which related to high print quality, and applies the digital technology of this generation to create a guide that flows with the work from creating the art to getting good output. He covers document design and typography, color specification, publishing software, color theory and reproduction, digital image files, graphic arts workflow, imaging file formats, press checks, digital trapping and imposition, and the craft and art of quality control. The glossary here is extremely helpful.

Z252

2004-114702

0-88362-496-6

On-demand and digital printing primer, 2d ed.

Title main entry. Ed. by Fenton, Howard M.

PIA/GATF, ©2006

161 p. \$30.00 (pa)

Among the qualities that distinguish digital printing of on-demand, short-run orders from lithography, flexography, and other methods is the capability to customize entire pages of an order, rather than varying a basic template. This book introduces professionals and a general readership to on-demand digital printing principles in brief, non-technical chapters. Discussions cover the economics of on-demand; the role of paper; commercial, in-house, and book publishing applications; sales and marketing; bindery issues; and the roles of database marketing and e-commerce, among other topics.

Z675

2006-039152

978-0-7890-3513-4

Electronic resources in medical libraries; issues and solutions.

Title main entry. Ed. by Elizabeth Connor and M. Sandra Wood.

Haworth Pr., ©2007

136 p. \$90.00

This set of 11 essays helps librarians acquire books, papers and journals in electronic form, whether by purchase, subscription or license. The contributors go far beyond what sort of hardware to buy. Instead they concentrate on the practicalities of library practice, including scholarly e-journal pricing models, extending electronic resource licenses to overseas medical school branches, access to information in developing nations, the veracity of statistics from web-based online journal lists, development of a combined e-journal web page, judging users' sophistication in searching, integrating e-resources into an online catalog, medical publisher and library liability and the possibility of domain-targeted libraries.

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