



2013

The Wiley Blackwell Preview

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Humanities & Social Sciences

Superman and Philosophy

What Would the Man of Steel Do?

SERIES EDITOR: WILLIAM IRWIN

EDITED BY MARK D. WHITE

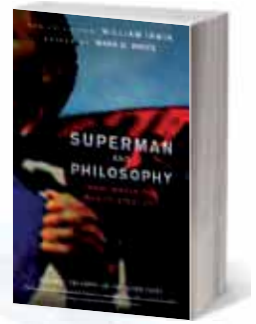
King's College, Pennsylvania, USA; College of Staten Island/CUNY, USA

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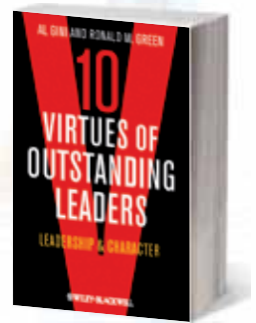
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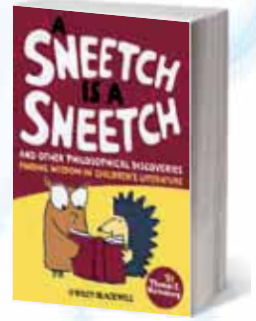
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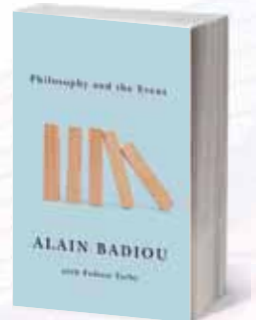
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RICHARD J. BERNSTEIN

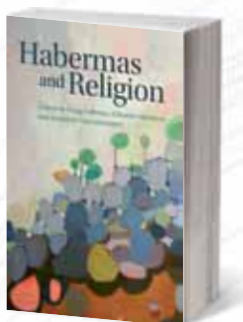
New School For Social Research, New York, USA

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- ❖ A major new book by a leading American philosopher
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CRAIG CALHOUN, EDUARDO MENDIETA & JONATHAN VANANTWERPEN

New York University; State University of New York, Stony Brook; Social Science Research Council, New York, USA

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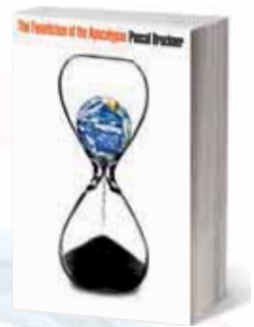
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University of Alberta, Canada

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- ❖ This compelling and thought-provoking new book challenges many assumptions about the nature of emotion and imagination and will appeal to anyone seeking a deeper understanding of the role that these concepts play in our lives

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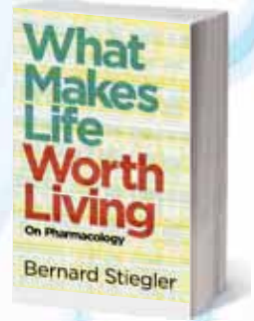
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Centre Georges-Pompidou, Paris, France

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Justification and Critique

Towards a Critical Theory of Politics

RAINER FORST

Johann Wolfgang Goethe University, Frankfurt Am Main, Germany

POLITY

- ❖ Rainer Forst is one of the most highly regarded of the younger generation of German philosophers
- ❖ This is a collection of his key essays on justice, justification and critique
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Basic Income

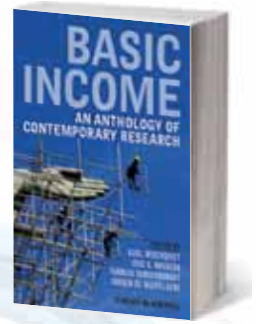
An Anthology of Contemporary Research

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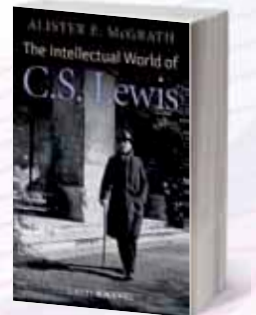
The Intellectual World of C. S. Lewis

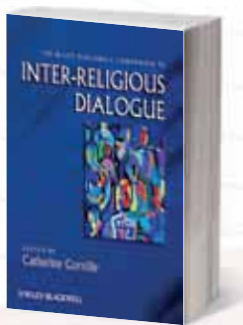
ALISTER E. McGRATH

King's College London, UK

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READERSHIP: Students and faculty within Christian theology and English literature; C. S. Lewis scholars
APR 2013 • 208PP • 978-0-470-67279-2 • PR • €19.99 / 978-0-470-67280-8 • CL • €50.00





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Boston College, USA

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- ❖ Explores theoretical issues including the history, nature, and methods of inter-religious dialogue
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University of North Carolina at Greensboro, USA

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- ❖ Uses new research to test the application of Aquinas's natural law through a rigorous reading of the biblical commentaries
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READERSHIP: Advanced undergraduates, postgraduates, and scholars of Romantic Literature
 MAR 2013 • 608PP • 978-1-405-19880-6 • CL • €120.00



Reading the American Novel

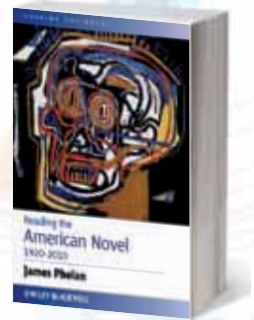
1920-2010

JAMES PHELAN

Ohio State University, USA

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Modernism – Keywords

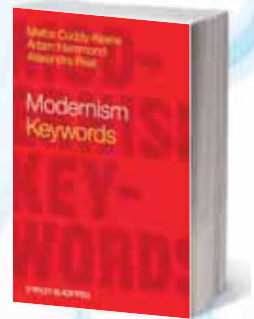
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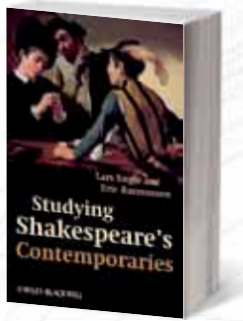
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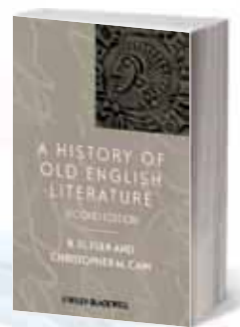
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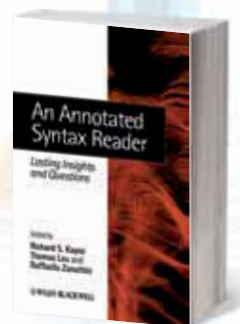
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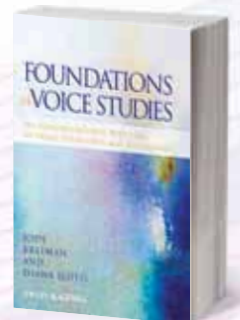
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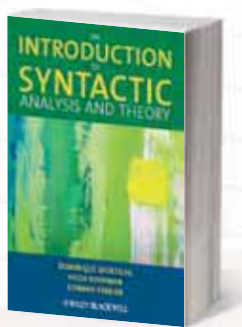
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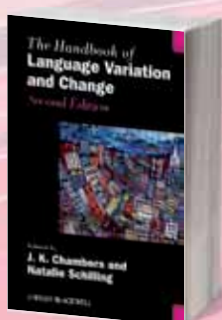
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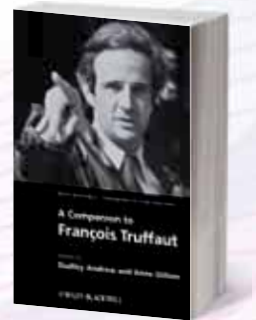
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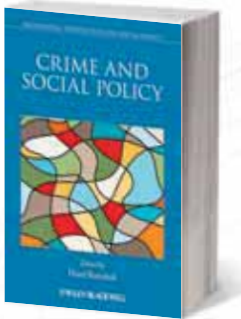
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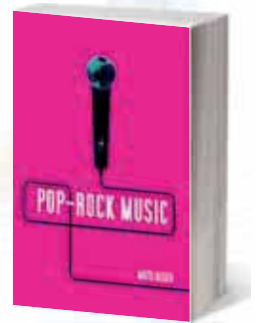
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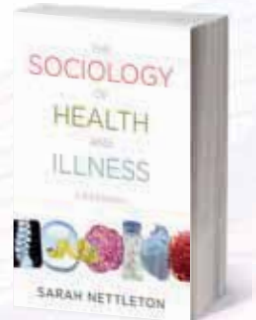
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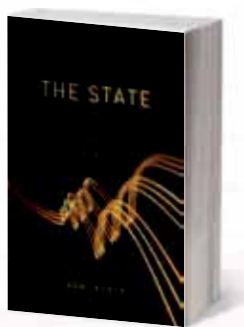
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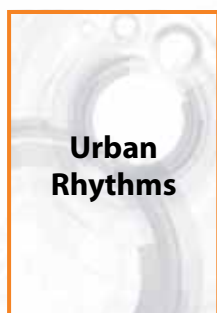
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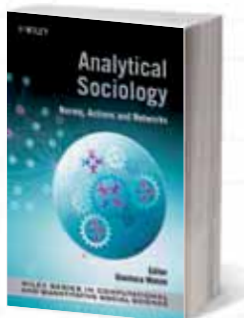
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READERSHIP: Survey researchers and practitioners in social sciences; and upper undergraduate and postgraduate students in survey methods

SERIES: WILEY SERIES IN SURVEY METHODOLOGY

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Towards an Economic Sociology of Law

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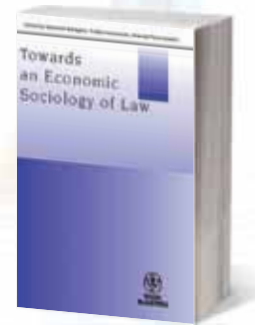
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The Handbook of Global Energy Policy

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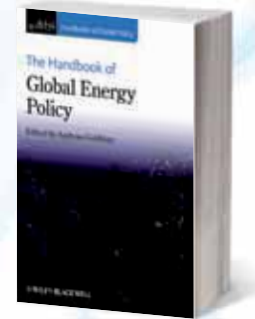
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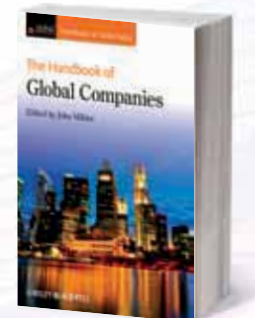
University of Sydney, Australia

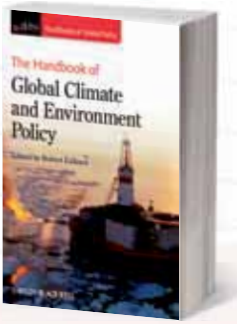
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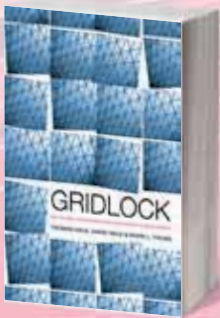
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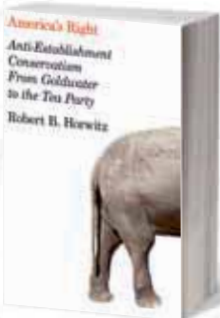
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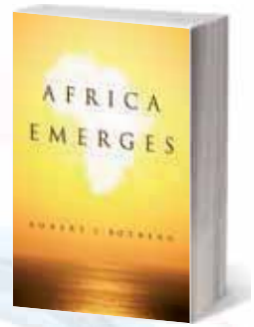
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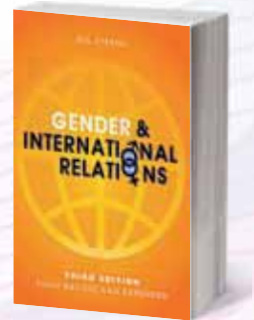
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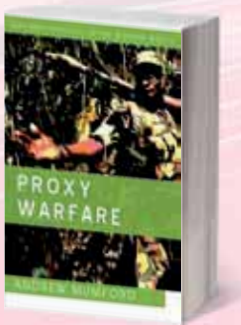
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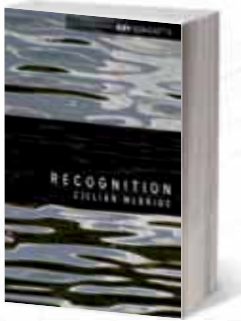
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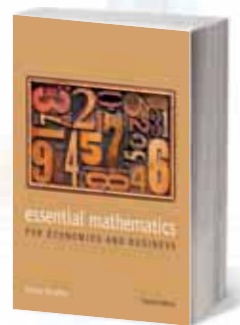
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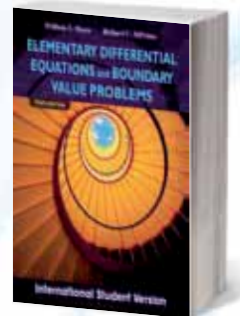
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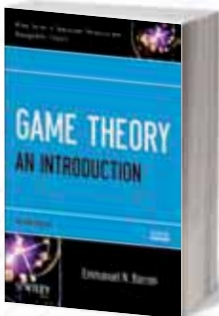
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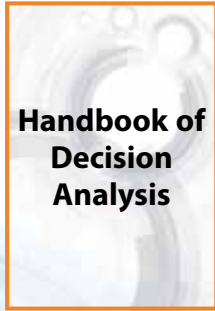
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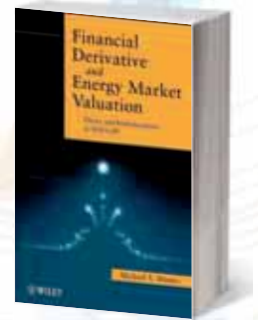
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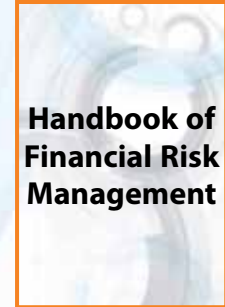
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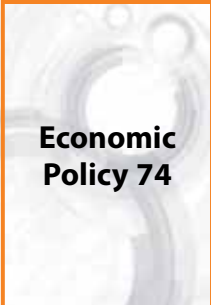
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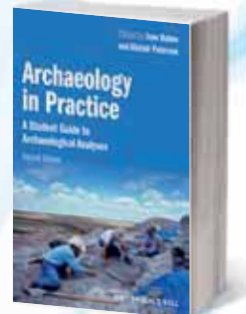
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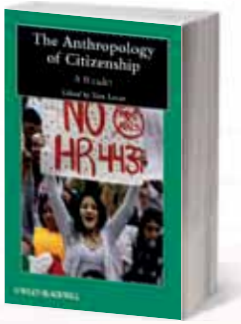
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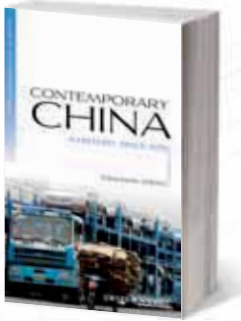
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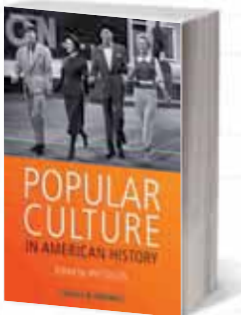
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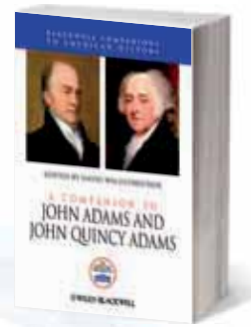
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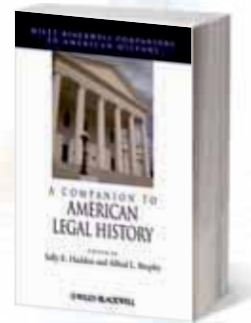
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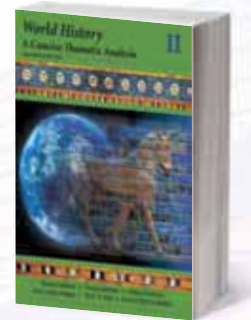
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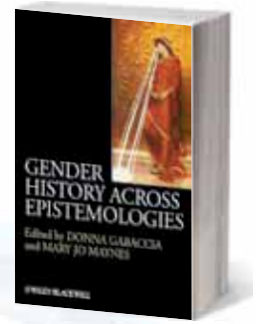
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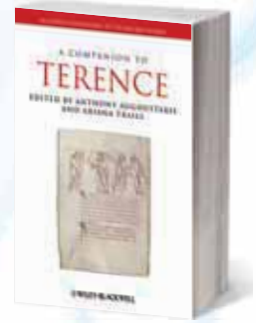
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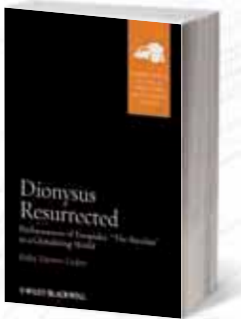
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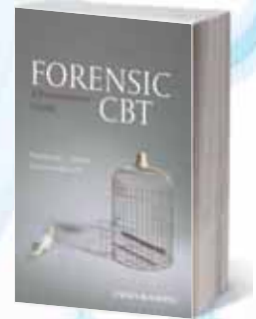
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- ❖ Examines the roots of disability ethics from a psychological, philosophical, and educational perspective
- ❖ Presents a coherent, sustained moral perspective in examining the historical dehumanization of people with diminished cognitive abilities
- ❖ Includes a series of narratives and case descriptions to illustrate arguments
- ❖ Reveals the importance of an interdisciplinary understanding of the social construction of intellectual disability

READERSHIP: Upper-level undergraduate and postgraduate students of psychology, philosophy, education, sociology and rehabilitation; academics and practitioners in these fields

APR 2013 • 248PP • 978-0-470-67432-1 • CL • €80.50



The Wiley-Blackwell Handbook of Childhood Cognitive Development

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READERSHIP: Upper level students and researchers of developmental psychology and educational psychology; trainee and practicing teachers, pediatricians, speech therapists, psychiatrists and social workers

SERIES: BLACKWELL HANDBOOKS OF DEVELOPMENTAL PSYCHOLOGY

APR 2013 • 816PP • 978-1-118-58666-2 • PR • €24.99

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The Wiley-Blackwell Handbook of Infant Development

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- ❖ Offers all new chapters on children and the environment, cultural influences, history of childhood, and neuro-psychological perspectives
- ❖ Represents an essential resource for students and researchers of childhood social development

READERSHIP: Advanced undergraduate and graduate students for courses in child psychology or educational psychology; researchers in child or educational psychology

712PP • 978-1-405-19679-6 • CL • €24.99

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SPECIAL PRICE



Handbook of Jealousy

Theory, Research, and Multidisciplinary Approaches

EDITED BY SYBIL L. HART & MARIA LEGERSTEE

Texas Tech University, USA; York University, Canada

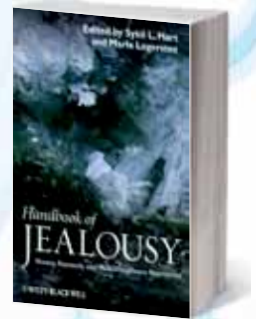
- ❖ Presents the most recent findings and theories on jealousy across a range of contexts and age-stages of development
- ❖ Includes 23 original articles with empirical findings and detailed commentaries by leading experts in the field
- ❖ Serves as a valuable resource for professionals in the fields of clinical psychology, psychiatry, and social work, as well as scholars in the fields of psychology, family studies, sociology, and anthropology

READERSHIP: Postgraduate students for psychology courses on emotion, personality, socio-emotional and cognitive development; professionals in clinical psychology, psychiatry, and social work; scholars in the fields of sociology and anthropology

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NEW IN PAPERBACK



Handbook of Personality and Self-Regulation

EDITED BY RICK H. HOYLE

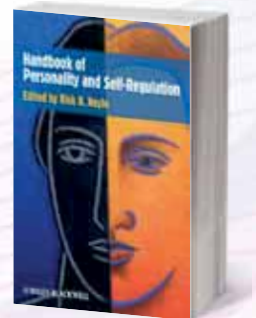
Duke University, USA

- ❖ Examines self-regulation as it influences and is influenced by basic personality processes in normal adults
- ❖ Offers 21 original contributions from an internationally respected group of scholars in the fields of personality and self-regulation
- ❖ Explores the causes and consequences of inadequate self-regulation and the means by which self-regulation might be improved
- ❖ Integrates empirical findings on basic personality traits with findings inspired by emerging models of self-regulation

READERSHIP: Scholars, practitioners, and students of personality and self-regulation in the fields of biological, developmental, cognitive, clinical, and social psychology; sociology; education; and related disciplines

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SPECIAL PRICE





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JEANETTE DIAZ & SABRINA ZIRKEL

University of West Georgia, USA; Mills College, USA

- ❖ Uses the concept of grounded globalization to presents descriptions of globalization from the perspective of various individuals and communities throughout the world
- ❖ Delves into aspects of globalization rarely discussed within psychology, such as power, privilege, and the localized nature of global processes
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- ❖ Offers concrete suggestions for how psychologists can effectively respond to the challenges of globalization through research, teaching, and action

READERSHIP: Undergraduate and postgraduate students in psychology, sociology, anthropology, economics, international relations, global studies, public health, and political science

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Research in Psychology

Methods and Design

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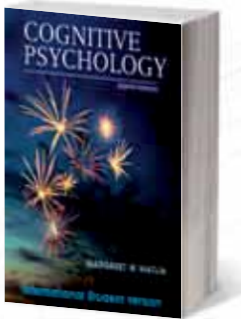
Western Carolina University, USA and Towson University, USA

- ❖ Research examples range from contemporary research to classic studies in order to illustrate various methodological points and enhance critical thinking
- ❖ Early coverage of experiments: The text gets to experiments as quickly as possible, and covers non-experimental research after experiments
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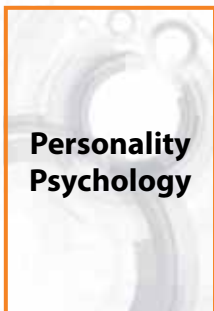
MARGARET W. MATLIN

- ❖ Clear, engaging writing with numerous examples means that students do not need to struggle to understand overly complex descriptions
- ❖ Extensive, useful pedagogical devices mean that students can read the chapters and master the material on their own, without requiring guidance
- ❖ Many applications relate to careers that students may intend to pursue, such as education, business, clinical psychology, and law
- ❖ The author, Prof. Matlin has tested most of the material with her students and knows which topics are likely to be difficult and which examples are especially helpful

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- ❖ Presents complex scientific theories in an accessible manner

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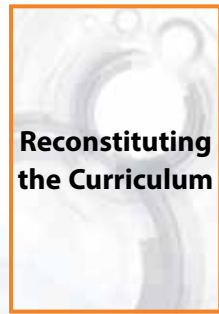
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- ❖ Fully supported by a companion website at www.wileydiagnosticimaging.com containing over 100 MCQs and answers, and all the images from the book

READERSHIP: Undergraduate medical students, junior doctors and residents, and trainee radiologists

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Physiology at a Glance

3rd Edition

JEREMY P.T. WARD & ROGER LINDEN

Both at King's College, London

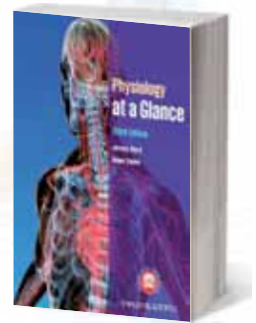
- ❖ Presents the basics of human physiology in bite-sized chapters, with full colour illustrations
- ❖ Presents the basic biological principles to each of the systems based chapters, while the figures provide a refresher on the core components of physiology in preparation for exams
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READERSHIP: Undergraduate medical students, biomedical, nursing, dentistry and allied health students

SERIES: AT A GLANCE

MAY 2013 • 176PP • 978-0-470-65978-6 • PR • €23.99

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READERSHIP: Undergraduate medical students, genetics, biology and life science students

SERIES: AT A GLANCE

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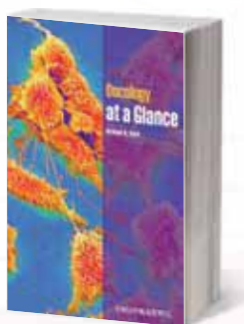
READERSHIP: Undergraduate medical students, and junior doctors

SERIES: AT A GLANCE

APR 2013 • 264PP • 978-0-470-67131-3 • PR • €27.99

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READERSHIP: Undergraduate medical students, junior doctors, biomedical science students, nurses and allied health professionals, and radiotherapists

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READERSHIP: Medical students, junior doctors, and specialist nurses

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Lecture Notes: Clinical Pharmacology and Therapeutics

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GERARD A. MCKAY & MATTHEW R. WALTERS

Glasgow Royal Infirmary, Glasgow, UK; University of Glasgow, Glasgow, UK

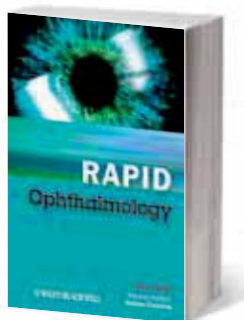
- ❖ A one-stop resource for the application of pharmacological knowledge to real-life clinical situations – ideal for supporting pharmacology and prescribing within the clinical years and as a junior doctor
- ❖ Provides an overview of all the key prescribing topics needed for medical finals and beyond, including “drugs you may need in a hurry”, prescribing and its pitfalls, and paediatric prescribing
- ❖ Includes clinical scenarios and prescribing points to flag up the key real-life knowledge students need

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An Aid to the MRCP PACES

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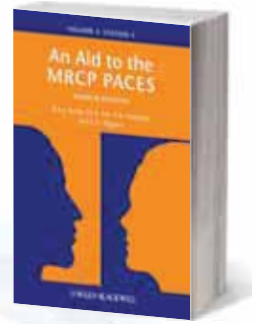
ROBERT E. J. RYDER, M.A. MIR, E.A. FREEMAN & E.N. FOGDEN

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READERSHIP: Health sciences educators and clinicians who must assess and mentor students and trainees

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- ❖ Includes contributions from experienced interviewers and interviewees

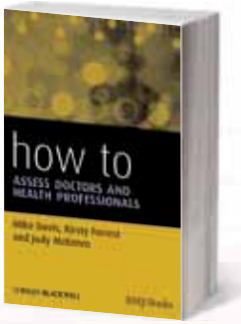
READERSHIP: Foundation programme trainees, specialist registrars, General Practitioner trainees and junior doctors, medical students, nurses, healthcare professionals

SERIES: HOW TO

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SERIES: ABC

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- ❖ Provides a model for health professionals, policy makers and researchers to assess new techniques and select and implement change in their own organizations
- ❖ Includes new chapters on patient safety and patient centered strategies for change
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- ❖ Incorporates structured guidance to help busy health professionals implement better practices and improve patient care

READERSHIP: Health care providers, staff involved in quality assessment, policy makers and researchers; postgraduate students of health policy and health management

APR 2013 • 376PP • 978-0-470-67338-6 • PR • €39.99

Inpatient Cardiovascular Medicine

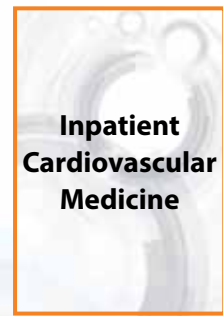
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READERSHIP: Practicing clinicians, trainees, medical students

JUN 2013 • 448PP • 978-0-470-65866-6 • PR • €39.99



Treatment-Resistant Depression

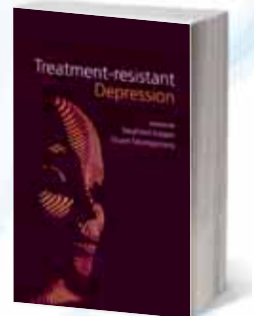
SIEGFRIED KASPER & STUART A. MONTGOMERY

Medical University of Vienna, Austria; Imperial College, London, UK

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- ❖ Approximately 15% of depression patients are defined treatment-resistant
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- ❖ Covers psychological therapy and other non-pharmacological interventions

READERSHIP: Psychiatrists, mental health workers, psychologists

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Epilepsy in Women

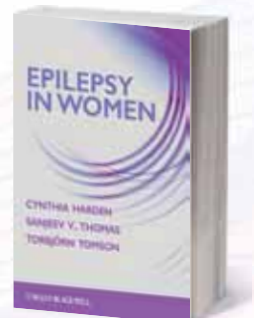
CYNTHIA HARDEN, SANJEEV V. THOMAS & TORBJORN TOMSON

Comprehensive Epilepsy Care Institute, North Shore, USA – Institute for Medical Sciences and Technology, Trivandrum, India - Department of Clinical Neuroscience, Karolinska Institutet

- ❖ Practical clinical approach: comprehensive guide on the diverse biological, clinical and psychosocial problems of women with epilepsy and their effective management
- ❖ Covers all ages of women – from the onset of menstruation through reproductive years to post menopause
- ❖ Multinational author team with international, cross cultural approach

READERSHIP: Primary: Neurologists, epileptologists, obstetrician-gynecologists and general practitioners

MAY 2013 • 248PP • 978-0-470-67267-9 • CL • €79.99





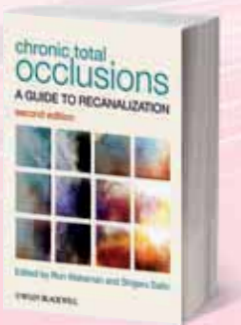
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- ❖ Tips and Tricks' boxes – hints on improving outcomes perhaps via practical technique, patient questioning etc.
- ❖ Caution' warning boxes – hints on avoiding problems, perhaps via contraindications

READERSHIP: Neurologists and cardiologists
JUN 2013 • 252PP • 978-0-470-67436-9 • PR • €51.99



Chronic Total Occlusions

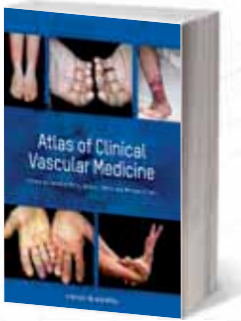
**A guide to recanalization
 2nd Edition**

RON WAKSMAN & SHIGERU SAITO

Director, Cardiovascular Research Institute, Georgetown University School of Medicine, Washington DC; Shonan Kamakura General Hospital, Kamakura, Japan

- ❖ Covers all aspects of CTO treatment and management, from indications to wires and devices to expert tips/tricks for key procedures to a final section of challenging patient cases
- ❖ Expanded to include data on indications and efficacy from the most recent clinical trials; information on the latest wires and devices; and even more tips and tricks from leading practitioners
- ❖ Now in color to enhance the usefulness of diagnostic images, which are essential in discovering CTOs

APR 2013 • 344PP • 978-0-470-65854-3 • CL • €94.95
 REPLACES ISBN: 978-1-405-15703-2

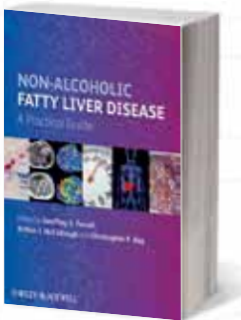


Atlas of Clinical Vascular Medicine

MICHAEL R. JAFF, BRUCE L. MINTZ & JESSICA MINTZ

- ❖ A modern, comprehensive, clinically-focused atlas of vascular medicine
- ❖ Clinically focused, to give readers information that can apply directly to patient care
- ❖ Includes over 200 images, most in color
- ❖ Each section concludes with self-assessment questions, making this an ideal reference for board review or recertification
- ❖ Incorporates cases from experienced clinicians from leading centers

MAR 2013 • 200PP • 978-0-470-65809-3 • CL • €124.99



Non-Alcoholic Fatty Liver Disease

A Practical Guide

GEOFFREY C. FARRELL, ARTHUR J. MCCULLOUGH & CHRISTOPHER P. DAY

Australian National University; Case Western Reserve University; Institute of Cellular Medicine

- ❖ Updated information on this increasingly prevalent disorder
- ❖ Editors from leading institutions
- ❖ Key points and Multiple Choice Questions for rapid review

READERSHIP: Practicing hepatologists and clinicians interested in this disorder
APR 2013 • 352PP • 978-0-470-67317-1 • CL • €94.99

Pituitary Disorders

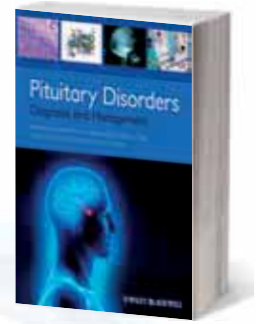
Diagnosis and Management

EDWARD LAWS, SHEREEN EZZAT, SYLVIA ASA & LINDA RIO

Brigham & Women's Hospital, MA, USA; Princess Margaret Hospital, Canada; University of Toronto, Canada

- ❖ Highly clinical and practical resource for all various pituitary disorders
- ❖ Guidance on initial investigations through to diagnosis and clinical management for endocrinologists and endocrinology residents as well primary care physicians who initially see patients with such disorders
- ❖ Includes guidance on complications, psychological and psychosocial effects and long term management
- ❖ Editorial team is represented by key names in pituitary and clinical endocrinology with contributions from some of the world's top physicians in the field

READERSHIP: Primary: consultant/specialist endocrinologists and residents/fellows in training and endocrinology nurses. Secondary: general physicians
APR 2013 • 392PP • 978-0-470-67201-3 • PR • €85.00



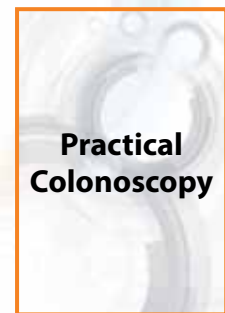
Practical Colonoscopy

JEROME D. WAYE, JAMES AISENBERG & PETER H. RUBIN

Mount Sinai Hospital, New York, USA; Mount Sinai Medical Center, New York, USA; Mount Sinai Medical Center, New York, USA

- ❖ A highly practical and useful guide to the fundamentals of this very common medical procedure
- ❖ Includes videos of colonoscopy procedures being performed by world experts
- ❖ Packed full of tips and tricks boxes, bullet points, case studies and other pedagogic features
- ❖ Provides a step-by-step approach, with the Table of Contents to reflect the full procedure from start to finish

MAY 2013 • 224PP • 978-0-470-67058-3 • CL • €54.99



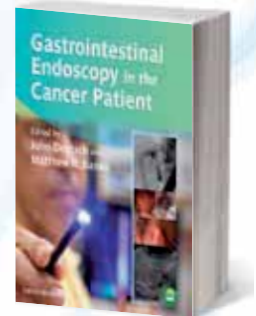
Gastrointestinal Endoscopy in the Cancer Patient

JOHN C. DEUTSCH & MATTHEW R. BANKS

Essential Health Systems, Duluth, MN, USA; University College London Hospitals NHS Trust, London, UK

- ❖ Comprehensive in its coverage of GI cancer from both the gastroenterologists and the oncologists perspective
- ❖ Consistent approach to the structure of the contents list, each section following a clear pattern
- ❖ Includes first-class videos of endoscopy being performed
- ❖ Full colour throughout with high-quality illustrations for clarity

JUN 2013 • 436PP • 978-0-470-67246-4 • CL • €130.00



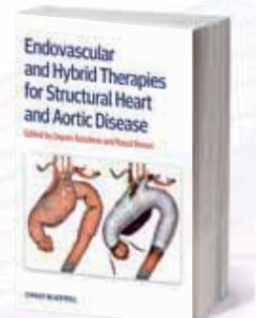
Endovascular and Hybrid Therapies for Structural Heart and Aortic Disease

JACQUES KPODONU & RAOUL BONAN

Northwestern Memorial Hospital

- ❖ A comprehensive, highly visual and practical guide with clear guidance to each procedure, possible complications, expert tips and tricks, and follow up
- ❖ Covers both well-tested procedures and leading edge approaches
- ❖ Includes expert guidance on the latest endovascular and hybrid techniques for the treatment of structural heart disease
- ❖ Provides a review of the pertinent anatomy, information on patient evaluation, relevant imaging modalities, available devices

APR 2013 • 321PP • 978-0-470-65639-6 • CL • €120.00





Interactive Haematology Imagebank DVD

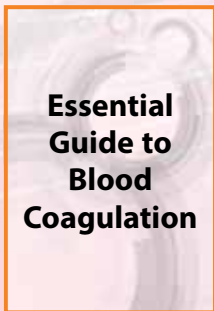
BARBARA J. BAIN

St. Mary's Hospital, London, UK

- ❖ Fully comprehensive to the visual aspects of haematology: morphology of blood films, bone marrow aspirates and trephine biopsies, cytogenetics, immunophenotyping, haemoglobinopathy investigations, blood transfusion, haemostasis and thrombosis, clinical haematology and treatment complications
- ❖ An invaluable advanced learning tool with a unique visual reference on all aspects of this speciality
- ❖ Contains over 2000 high resolution digital images with detailed captions
- ❖ Includes an interactive self-assessment with illustrated and self-evaluation questions
- ❖ Incorporates a 2000 word glossary, with separate detailed listings of oncogenes and 200 CD numbers

APR 2013 • 4PP • 978-0-470-67049-1 • SOFTWARE* • €225.00

REPLACES ISBN: 978-1-444-34996-2



Essential Guide to Blood Coagulation

2nd Edition

MARGARETA BLOMBÄCK & JOVAN ANTOVIC

Department of Molecular Medicine and Surgery, Coagulation Research, Karolinska Institutet; Clinical Chemistry, Karolinska University Hospital, Stockholm, Sweden

- ❖ A practical guide to blood coagulation, updated with new information on anticoagulant drugs and the latest treatment strategies available for patients
- ❖ Includes treatment strategies for key bleeding disorders and diseases
- ❖ Incorporates the latest antithrombotic treatment guidelines and newest anticoagulant drugs
- ❖ Highlights simple tests that can be used in the laboratory to aid diagnosis
- ❖ Special patients (HIV-infected, uraemic) and complications (the transplant and paediatric patient) included

APR 2013 • 208PP • 978-1-118-28879-5 • PR • €44.99



Quality in Laboratory Hemostasis and Thrombosis

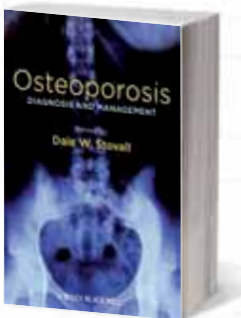
2nd Edition

STEVE KITCHEN, JOHN D. OLSON & F. ERIC PRESTON

Royal Hallamshire Hospital, Sheffield, UK; University of Texas Health Science Center, San Antonio, Texas, USA; University of Sheffield, Sheffield, UK

- ❖ Covers all aspects of quality control and haemostasis to help implement a quality program in the haemostasis laboratory
- ❖ Includes molecular genetic testing discussed in respect to haemophilia, von Willebrand's disease and familial thrombophilia
- ❖ Details a quality program that, when put into place, will help to improve standards in testing. All of the authors are internationally recognised for their work in hemostasis and thrombosis
- ❖ New chapter devoted to quality control in platelet function testing and fibrinolysis testing

APR 2013 • 302PP • 978-0-470-67119-1 • CL • €79.99



Osteoporosis

Diagnosis and Management

DALE STOVALL

Director of the OB/GYN Residency Program Riverside Medical Group, VA

- ❖ First book on contemporary approaches to osteoporosis
- ❖ Fuses science and clinical content
- ❖ Aimed at 'generalist specialists', eg gynecologists, rather than specialists in osteoporosis
- ❖ Looks at early identification and prevention as well as treatment
- ❖ Includes coverage of osteoporosis in men as well as women

READERSHIP: Primary: gynecologists / Secondary: endocrinologists, urologists, rheumatologists, family physicians

JUL 2013 • 256PP • 978-1-119-96891-7 • CL • €79.99

Practical Pediatric and Adolescent Gynecology

PAULA J. ADAMS HILLARD

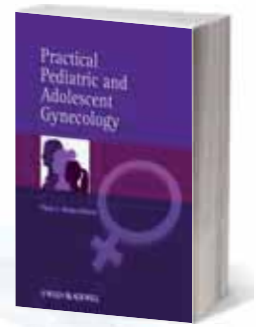
M.D., Professor of Obstetrics and Gynecology at Stanford University School of Medicine and Chief of the Division of Gynecologic Specialties

- ❖ Clinical 'in the office'/'at the bedside' guide
- ❖ Algorithms and guidelines
- ❖ 'Tips and Tricks' boxes – hints on improving outcomes perhaps via practical technique, patient questioning etc.
- ❖ 'Caution' warning boxes – hints on avoiding problems, perhaps via contraindications
- ❖ 'Science Revisited' – quick reminder of the basic science principles necessary for understanding

READERSHIP: Practical approach primarily for office-based gynecologists and trainee gynecologists. Large potential secondary market with pediatricians, general and family practitioners

SERIES: GIP - GYNAECOLOGY IN PRACTICE

APR 2013 • 408PP • 978-0-470-67387-4 • CL • €77.99



Fat Removal

Body Contouring and Cellulite Control

MATTHEW AVRAM MD, JD

Assistant Professor of Dermatology at Harvard Medical School

- ❖ Offers a practical approaches to implementing fast removal
- ❖ Includes both invasive and non-invasive techniques
- ❖ Written by one of the world's leading dermatologists

READERSHIP: Cosmetic dermatologists, plastic surgeons, aesthetic medical practitioners

JUL 2013 • 252PP • 978-1-444-33428-9 • CL • €89.99



Botulinum Toxins in Dermatology

Cosmetic and Clinical Applications

JOEL L. COHEN

Director of AboutSkin Dermatology and DermSurgery in Englewood and Lone Tree, Colorado, USA

- ❖ Best practice on the contemporary use of botulinum toxin in combination with other therapies
- ❖ Includes a DVD to illustrate how toxins should be used for best results for patients in a range of situations
- ❖ Practical and comprehensive - toxins, applications and techniques

READERSHIP: Dermatologists and trainee dermatologists

JUL 2013 • 400PP • 978-1-444-33825-6 • CL • €124.99



Nutrition and Development

Short and Long-Term Consequences for Health

BNF (BRITISH NUTRITION FOUNDATION)

British Nutrition Foundation, London, UK

- ❖ New title in the British Nutrition Foundation's authoritative Task Force series
- ❖ Offers a complex review on the value of nutrition to our health and the importance of it during critical phases of development
- ❖ Addresses the factors involved in the vulnerabilities in early development, the relationship between nutrition during critical phases of development and disease risk later in life and makes recommendations for public health
- ❖ Edited and written by leading experts in the field

READERSHIP: Nutritionists, dietitians and those working in developmental programming. Libraries within universities, medical schools and research establishments

SERIES: BRITISH NUTRITION FOUNDATION

APR 2013 • 392PP • 978-1-444-33678-8 • PR • €59.99





Practical Transfusion Medicine

4th Edition

MICHAEL F. MURPHY, DERWOOD H. PAMPHILON & NANCY M. HEDDLE

University of Oxford, Oxford, UK; University of Bristol, Bristol, UK; McMaster University, Hamilton, Ontario, Canada

- ❖ A new edition of this award-winning book which provides a concise and user-friendly guide focusing on the clinical aspects of transfusion medicine
- ❖ The first edition won a BMA book award and the third edition was highly commended
- ❖ Fully revised and updated with an improved layout and a new chapter on cytokines in transfusion medicine
- ❖ Greater internationality: the previous Editors have been joined by Nancy Heddle from Canada, winner of the International Women in Transfusion award in 2009

READERSHIP: Primary: transfusion medicine specialists and haematologists Secondary: laboratory technicians and medical personnel working in blood banks

MAY 2013 • 546PP • 978-0-470-67051-4 • CL • €89.99

REPLACES ISBN: 978-1-405-18196-9



Abdominal Organ Retrieval and Transplantation Bench Surgery

GABRIEL ONISCU, JOHN FORSYTHE & JOHN FUNG

Royal Infirmary of Edinburgh; Royal Infirmary of Edinburgh; Cleveland Clinic, Ohio, USA

- ❖ Covers all aspects of retrieval and bench surgery of the abdominal organs, including organ retrieval logistics and organ preservation; retrieval and bench surgery of the kidney, liver, pancreas and intestine; *in situ* and *ex situ* liver splitting; multi-organ retrieval; paediatric age-specific aspects of retrieval and bench surgery
- ❖ Features detailed colour illustrations of standard techniques
- ❖ Includes practice learning points for each procedure and thorough guidance on dealing with anatomical variations
- ❖ Decision algorithms for both common and challenging clinical scenarios will help support readers

READERSHIP: Transplant surgeons and specialists, donor retrieval teams, others involved in abdominal organ transplantation

JUN 2013 • 256PP • 978-0-470-65786-7 • CL • €93.99



Identification of Pathogenic Fungi

2nd Edition

COLIN CAMPBELL, ELIZABETH JOHNSON & DAVID W. WARNOCK

Health Protection Agency, Bristol; Health Protection Agency, Bristol; Centers for Disease Control & Prevention, Atlanta, Georgia

- ❖ A fully updated new edition from world renowned experts in medical mycology
- ❖ Features new colour photographs of key species and their microscopic features
- ❖ Includes the latest antifungal drugs, updated taxonomic information, new agents of infection, and new infection associations
- ❖ Endorsed by the Health Protection Agency

READERSHIP: Infectious disease specialists, clinical microbiologists, mycologists, those in the food industry, in agricultural science, and drug testing

APR 2013 • 336PP • 978-1-444-33070-0 • CL • €89.99

REPLACES ISBN: 978-0-901-14439-3 (Public Health Laboratory Service)



Infectious Disease Surveillance

2nd Edition

NKUCHIA M. M'IKANATHA, RUTH LYNFIELD, CHRIS A. VAN BENEDEEN & HENRIETTE DE VALK

Pennsylvania Department of Health; Minnesota Department of Health; Centers for Disease Control and Prevention, Atlanta, Georgia; Institut de Veille Sanitaire, France

- ❖ Portrays both the conceptual framework and practical aspects of infectious disease surveillance
- ❖ Designed to improve the tracking of infectious diseases and to serve as a starting point in the development of new surveillance systems
- ❖ Includes over 45 chapters from over 100 contributors, with topics organized into six sections
- ❖ **Section One** highlights the critical role surveillance plays in public health; **Section Two** describes surveillance systems based on logical program areas; **Sections Three and Four** explore the uses of the internet and wireless technologies; **Sections Five and Six** discuss legal and ethical considerations

READERSHIP: Frontline public health practitioners, epidemiologists, and clinical microbiologists who are engaged in communicable disease control; and trainees in public health, applied epidemiology, postgraduate medicine and nursing programs

MAY 2013 • 722PP • 978-0-470-65467-5 • CL • €110.00

REPLACES ISBN: 978-1-405-14266-3

Premature Ejaculation

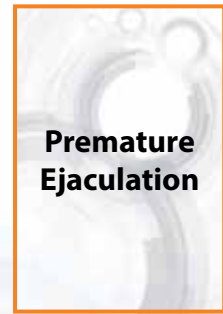
Diagnosis and Treatment

MARCEL WALDINGER

Haga Hospital Leyenberg, Netherlands

- ❖ Provides a practical approach to clinical diagnosis and treatment of premature ejaculation
- ❖ Includes 'Tips and Tricks' boxes – hints on improving outcomes perhaps via practical technique, patient questioning
- ❖ 'Caution' warning boxes – hints on avoiding problems, perhaps via contraindications
- ❖ 'Science Revisited' – quick reminder of the basic science principles necessary for understanding
- ❖ Algorithms and guidelines for ease of use

SERIES: SMIP - SEXUAL MEDICINE IN PRACTICE
MAY 2013 • 224PP • 978-0-470-65936-6 • CL • €64.99



Premature
Ejaculation

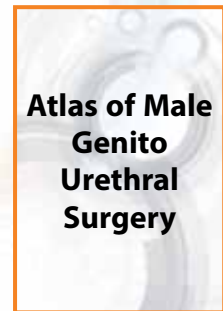
Atlas of Male Genito Urethral Surgery

ASIF MUNEEB

University College London

- ❖ Covers new techniques in penile and urethral surgery
- ❖ Step-by-step illustrated approach
- ❖ Provides surgical tips for improved results
- ❖ Contains DVD of procedures

READERSHIP: Urologists and andrologists
JUN 2013 • 180PP • 978-1-444-33556-9 • CL • €99.99



Atlas of Male
Genito
Urethral
Surgery

The Textbook of Pharmaceutical Medicine

7th Edition

JOHN P. GRIFFIN, JOHN POSNER & GEOFFREY R. BARKER

Director, Asklepion Consultancy Ltd; Independent Consultant in Pharmaceutical Medicine; Independent Consultant in Pharmaceutical Medicine

- ❖ Now in its seventh edition, represents the standard reference for all those working in pharmaceutical medicine
- ❖ Recognised text for the UK Faculty of Pharmaceutical Diploma
- ❖ Reflects the enormous changes in the pharmaceutical environment, many of which have occurred since 2009 when the last edition was published
- ❖ New chapters and new authors in each section, and more consideration given to ethical issues across all areas of the book

READERSHIP: Students studying for the UK Faculty of Pharmaceutical Diploma, practising pharmaceutical medicine physicians in the pharmaceutical industry and academia, contract research organizations and government regulatory agencies
MAY 2013 • 784PP • 978-0-470-65987-8 • CL • €187.50



THE TEXTBOOK OF
Pharmaceutical
Medicine

Review Questions for MRI

2nd Edition

CAROLYN KAUT ROTH & WILLIAM FAULKNER

Fellow SMRT (Section for Magnetic Resonance Technologists); Director Technologist Continuing Education and MRI Internship Programs for Technologists, University of Pennsylvania Heal Systems, Philadelphia, Pennsylvania; University of Pennsylvania Heal Systems, Philadelphia

- ❖ Bestselling text for Magnetic Resonance Imaging revised and updated to reflect new ARRT guidelines for the MRI boards
- ❖ Offers students a comprehensive review of the principles and applications of MRI to prepare them for the examination
- ❖ Must have self-assessment tool for independent study
- ❖ Written by leaders in the field of MRI

READERSHIP: Students and practicing MRI technologists preparing for the MRI boards
APR 2013 • 336PP • 978-1-444-33390-9 • PR • €34.99



Review
Questions for
MRI



Medical Imaging

Essentials for Physicians

ANTHONY B. WOLBARST, PATRIZIO CAPASSO & ANDREW R. WYANT

All University of Kentucky, USA

- ❖ A concise introduction" to imaging
- ❖ Addresses the science and technology of image formation, a field of critical importance to this audience
- ❖ Includes realistic, clinical case examples throughout
- ❖ Thorough use of images in diagnosis and interpretation

MAY 2013 • 384PP • 978-0-470-50570-0 • CL • €53.50



Anatomy in Diagnostic Imaging

3rd Edition

PETER FLECKENSTEIN, PETER SAND MYSCHEZKY & JORGEN TRANUM-JENSEN

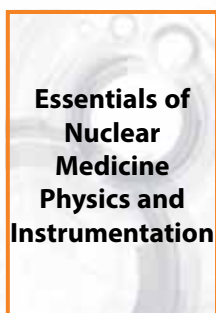
University of Copenhagen

- ❖ A basic atlas of anatomy applied to diagnostic imaging covering entire human body
- ❖ Employs all imaging modalities used in clinical practice; x-ray, CT, MR, ultrasound and scintigraphy
- ❖ Features over 800 high quality images
- ❖ New edition expanded to include extra coverage on MR scanning and for the first time, covers the increasingly popular PET scanning

READERSHIP: Medical students, radiologists, radiographers and other medical personnel working with diagnostic imaging

MAY 2013 • 476PP • 978-1-405-13991-5 • PR • €59.99

REPLACES ISBN: 978-8-716-12336-7



Essentials of Nuclear Medicine Physics and Instrumentation

3rd Edition

RACHEL A. POWSNER, MARK R. PALMER & EDWARD R. POWSNER

Boston University School of Medicine, Massachusetts; Gross Pointe Farms, Michigan

- ❖ This new revision offers simplified text and additional illustrations
- ❖ Includes new coverage of CT and of the latest technologies, such as hybrid / dual scanning systems: PET/CT and SPECT/CT
- ❖ Contains new discussions of the latest technology based on solid state detectors and new scanner designs optimized for specific dedicated imaging applications such as cardiac, breast or thyroid
- ❖ Expanded coverage of image reconstruction and processing techniques and new material on methods of image display

APR 2013 • 240PP • 978-0-470-90550-0 • PR • €53.50



Sports Nutrition

Encyclopaedia of Sports Medicine

2nd Edition

RONALD J. MAUGHAN

Loughborough University, UK

- ❖ Comprehensive coverage of nutrition as it relates to athletic performance
- ❖ Written by leading experts from the fields of nutrition, sports science, and sports medicine
- ❖ Published in conjunction with the Medical Commission of the International Olympic Committee
- ❖ Outlines the current state of knowledge from the biochemistry and physiology of eating to practical guidance for trainers, coaches, physicians, and other professionals
- ❖ Includes topics such as weight management, supplements, and planning diets for optimal training and performance

READERSHIP: Practitioners in sports medicine including trainers, coaches, physicians, and other professionals

SERIES: THE ENCYCLOPAEDIA OF SPORTS MEDICINE

JUN 2013 • 704PP • 978-1-118-27576-4 • CL • €129.99

Evidence-Based Pediatric Oncology

3rd Edition

ROSS PINKERTON, AG SHANKAR & KATHERINE MATTHAY

Mater Children's Hospital, Brisbane; University of California at San Francisco

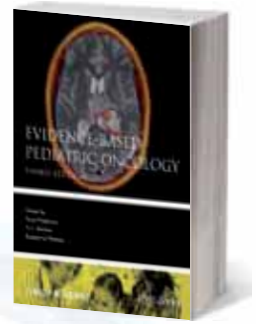
- ❖ Renowned reference for pediatric oncologists presenting best evidence for treatment of children and adolescents with cancer
- ❖ Ground-breaking text on the management of childhood cancers, covering all tumor types occurring in children and young adults
- ❖ Each topic includes commentaries from the world's leading experts
- ❖ Internationally relevant with contributions from the UK, US and Australia

READERSHIP: Pediatric oncologists, pediatricians, pediatric oncology nurse specialists, paediatric nurse specialists

SERIES: EVIDENCE-BASED MEDICINE

APR 2013 • 320PP • 978-0-470-65964-9 • CL • €99.95

REPLACES ISBN: 978-1-405-14268-7



Business Basics for Dentists

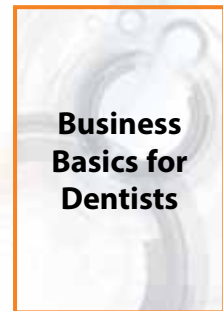
DAVID O. WILLIS

Department of Diagnosis and General Dentistry, University of Louisville, Louisville, Kentucky, USA

- ❖ Written by a practicing dentist who is also an M.B.A. and certified financial planner
- ❖ Applies core business principles to the specifics of dental practice
- ❖ Web site includes handouts, checklists, forms, etc.

READERSHIP: predoctoral dental students, dental residents, and practicing dentists

APR 2013 • 384PP • 978-1-118-26606-9 • PR • €TBA



Surgical Essentials of Immediate Implant Dentistry

JAY R. BEAGLE

Private practice, Indianapolis, Indiana, USA

- ❖ Surveys surgical techniques for all scenarios of extraction and immediate placement
- ❖ Provides essential evidence-based information on immediate implant placement
- ❖ Highly illustrated with more than 250 clinical photographs

READERSHIP: Oral and maxillofacial surgeons, periodontics, prosthodontics, and all dentists with an interest in implant placement

FEB 2013 • 120PP • 978-0-813-81606-7 • CL • €49.99



The Orthodontics Mini Implant Clinical Handbook

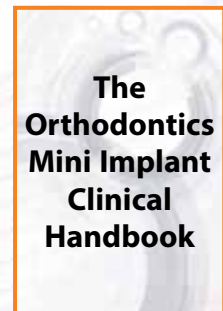
RICHARD COUSLEY

Consultant Orthodontist for the Peterborough & Stamford Hospitals NHS Foundation Trust

- ❖ The must-have book for trainee and practicing orthodontists, providing essential theoretical and clinical mini-implant information
- ❖ Aimed at enabling clinicians to easily introduce skeletal anchorage into their practice across a wide variety of common clinical scenarios
- ❖ A step-by-step approach helps guide the reader through the most common clinical uses for orthodontic mini-implants including: incisor retraction, molar distalisation, transverse and asymmetry corrections, and orthognathic surgery uses
- ❖ In full colour and highly illustrated throughout with useful clinical tips and laboratory descriptions

READERSHIP: Practicing and trainee orthodontists

APR 2013 • 160PP • 978-1-118-27599-3 • CL • €49.99





Clinical Skills for Nurses

Student Survival Skills

CLAIRE BOYD

North Bristol NHS Trust, Bristol, UK

- ❖ A handy, portable introduction to both the knowledge and practical procedures that first year nursing students require
- ❖ Provides words of wisdom and advice from real-life student nurses
- ❖ Pocket-sized for portability on clinical placement
- ❖ Examples and questions based on real life nursing & healthcare examples
- ❖ Ties in with the NMC standards for pre-registration education and the Essential Skills Clusters

READERSHIP: Pre-registration adult nursing students, health care assistants, assistant practitioners, students returning to practice

SERIES: STUDENT SURVIVAL SKILLS

APR 2013 • 220PP • 978-1-118-44877-9 • PR • €9.99



Medicine Management for Nurses

Student Survival Skills

CLAIRE BOYD

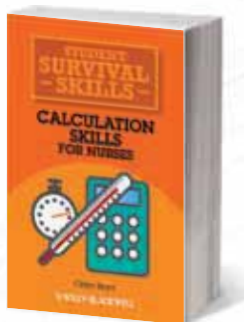
North Bristol NHS Trust, Bristol, UK

- ❖ A concise, pocket-sized companion to the subject of medicines management and drug administration, aimed at student nurses, assistant practitioners, and newly qualified registered nurses
- ❖ Developed by students for students: tips, advice and words of wisdom from real-life students included throughout
- ❖ Ties in with the NMC standards for pre-registration education and the Essential Skills Clusters
- ❖ Includes activities for the reader throughout to test understanding

READERSHIP: Pre-registration nursing students, primarily in year 1. Nursing students on 'top-up' degrees

SERIES: STUDENT SURVIVAL SKILLS

APR 2013 • 264PP • 978-1-118-44885-4 • PR • €9.99



Calculations Skills for Nurses

Student Survival Skills

CLAIRE BOYD

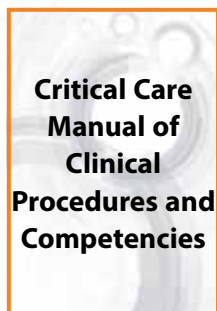
North Bristol NHS Trust, Bristol, UK

- ❖ A pocket-sized, portable textbook for pre-registration nursing students to use in the classroom or on their clinical placement
- ❖ Developed by students for students: tips, advice and words of wisdom from real-life students included throughout
- ❖ An essential topic applicable to all fields of nursing – with examples from adult, mental health, paediatric and midwifery
- ❖ Ties in with the NMC standards for pre-registration education and the Essential Skills Clusters

READERSHIP: Pre-registration nursing students, primarily in year 1. Nursing students on 'top-up' degrees

SERIES: STUDENT SURVIVAL SKILLS

APR 2013 • 216PP • 978-1-118-44889-2 • PR • €9.99



Critical Care Manual of Clinical Procedures and Competencies

JANE MALLETT, JOHN ALBARRAN & ANNETTE RICHARDSON

Head of Nursing Practice, Education and Research; University of the West of England

- ❖ Provides essential evidence-based procedures for all critical care practitioners
- ❖ Includes a robust competency framework that can be used by all disciplines
- ❖ Underpins best practice by drawing on the best available evidence
- ❖ Follows a systematic approach to providing care
- ❖ Facilitates the development of critical care knowledge and skills
- ❖ Provides benchmarks to help assess and develop clinical practice
- ❖ Indicates areas where specialist training is needed

READERSHIP: Qualified nurses and nursing students, critical care nurses, intensive care nurses

MAY 2013 • 536PP • 978-1-405-12252-8 • PR • €29.99

Numeracy in Children's Nursing and Healthcare

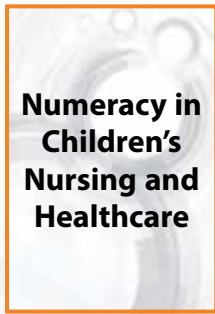
Skills for Practice

ARIJA PARKER

University of Central Lancashire, Preston, UK

- ❖ An accessible, user-friendly guide to the essential skills associated with maths and numeracy in children's nursing
- ❖ Full of interactive features to bring the subject to life
- ❖ Offers hints and tips throughout that link numeracy into children's nursing practice
- ❖ Instils students and nurses with confidence and competence when working with numbers and calculating drug doses

READERSHIP: Pre- registration Child Branch Students; Registered Children's Nurses and healthcare practitioners
 JUN 2013 • 300PP • 978-0-470-65839-0 • PR • €19.99



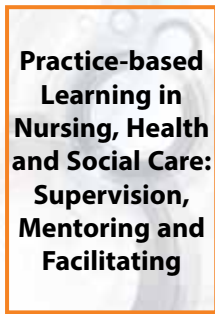
Practice-based Learning in Nursing, Health and Social Care: Supervision, Mentoring and Facilitating

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University of Worcester, Worcester, UK; Formerly City University, London, UK

- ❖ A practical text that promotes effective professional learning in the workplace
- ❖ Accessible guidance for new and experienced practice educators, mentors and facilitators alike, in all areas of health and social care
- ❖ Written by authors with extensive experience in the field
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 APR 2013 • 264PP • 978-0-470-65810-9 • PR • €25.99

REPLACES ISBN: 978-1-405-17360-5



Essentials for Occupational Health Nursing

ARLENE GUZIK

Business Health Resources, Inc. and Lakeside Occupational Medical Centers, Largo, Florida, USA

- ❖ Practical and accessible guide to occupational health nursing
- ❖ Addresses occupational health issues from the employer perspective
- ❖ Covers the role of the OHN, cultural issues, and US regulations
- ❖ Provides case studies on fitness for duty and medical monitoring

READERSHIP: occupational health nurses, community health nurses, graduate programs in occupational health nursing and community health nursing, primary care nurse practitioner programs

MAR 2013 • 456PP • 978-0-813-80689-1 • PR • €37.99





Caring for Children with Special Healthcare Needs and Their Families

A Handbook for Healthcare Professionals

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Washington State University, Vancouver, Washington, USA

- ❖ Practical guide to providing optimal healthcare to children with special needs
- ❖ Addresses physical and developmental disabilities
- ❖ Utilized individual and family theory to serve the family as a whole

READERSHIP: pediatric nurse practitioners, registered nurses, healthcare technicians, physician assistants and social services professionals
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Supporting a Physiologic Approach to Pregnancy and Birth

Supporting a Physiologic Approach to Pregnancy and Birth

A Practical Guide

MELISSA AVERY

University of Minnesota School of Nursing, Minneapolis, Minnesota, USA

- ❖ Provides current evidence and practical suggestions to promote physiologic birth within the US health care system
- ❖ Presents the latest evidence available on practical approaches and minimal interventions
- ❖ Explores in-hospital and out-of-hospital care methods
- ❖ Coverage includes physiology and supportive approach methods; interventions such as touch therapies, water immersion and acupuncture; and organizational approaches including the current status of policies and recommendations for change

READERSHIP: practicing midwives, graduate students in midwifery, other members of the labor team, physicians, nurse leaders, nurse administrators, and policy makers

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Occupational Therapy and Older People

2nd Edition

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- ❖ Promotes pro-active ageing and innovation in the practice of occupational therapy with older people
- ❖ Adopts the framework of the WHO International Classification of Functioning, Disability and Health
- ❖ Reveals the diversity of occupational performance considerations in older age through specialist contributions
- ❖ Includes case studies, narratives and user perspectives providing a comprehensive resource for students and a basic working reference for clinicians

READERSHIP: Primary: occupational therapy students; Secondary: occupational therapists

MAY 2013 • 288PP • 978-1-444-33333-6 • PR • €29.99

Rheumatology Practice in Occupational Therapy

Rheumatology Practice in Occupational Therapy

Promoting Lifestyle Management

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- ❖ A valuable new handbook in a core area of Occupational Therapy practice – the first guide to promote a truly person-centred approach
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- ❖ Written by highly experienced authors with extensive experience in clinical and research contexts
- ❖ Includes helpful resource sections at the end of each chapter

READERSHIP: Practicing occupational therapists, OT students preparing for practice, physiotherapists

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Statistics for Veterinary and Animal Science

3rd Edition

AVIVA PETRIE & PAUL WATSON

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READERSHIP: Students and researchers of veterinary and animal science

MAY 2013 • 424PP • 978-0-470-67075-0 • PR • €34.99

REPLACES ISBN: 978-1-405-12781-3

**Statistics for
Veterinary
and Animal
Science**

BSAVA Manual of Canine and Feline Radiography and Radiology

A Foundation Manual

FRASER MCCONNELL & ANDREW HOLLOWAY

University of Liverpool, Small Animal Teaching Hospital, UK; Centre for Small Animal Studies, Animal Health Trust, UK

- ❖ This Foundation Manual replaces the classic *BSAVA Manual of Diagnostic Imaging* as an introduction for veterinary students, nurses and new graduates
- ❖ The Manual includes many high-quality radiographic reproductions, with paired drawings to illustrate normal anatomy and key features of interpretation
- ❖ Begins with an introduction to the basic principles of the X-ray beam and the underlying principles of technique and interpretation
- ❖ Moves on to imaging of the various body systems, with each chapter covering radiographic anatomy, the merits of radiographic assessment, and the use of a systematic diagnostic approach

READERSHIP: Veterinary students and new graduates, veterinary nurses

MAY 2013 • 330PP • 978-1-905-31944-2 • PR • €78.00

**BSAVA Manual
of Canine and
Feline
Radiography
and Radiology**

BSAVA Manual of Rabbit Imaging, Surgery and Dentistry

FRANCES HARCOURT-BROWN & JOHN CHITTY

Harcourt-Brown Ltd, UK; JC Exotic Pet Consultancy Ltd, UK

- ❖ Utilises the growing knowledge and expertise becoming available for the care of these increasingly popular pets
- ❖ Covers a breadth of topics including; imaging technique and interpretation, surgical principles and surgery by body system, dental examination and treatment and pre- and postoperative care
- ❖ Highly illustrated throughout and featuring step-by-step Operative Techniques
- ❖ Follows the practical approach that is the hallmark of BSAVA Manuals

READERSHIP: General practitioners, veterinary students and veterinary nurses

JUN 2013 • 336PP • 978-1-905-31941-1 • PR • €75.00

**BSAVA Manual
of Rabbit
Imaging,
Surgery and
Dentistry**

BSAVA Manual of Canine and Feline Ophthalmology

3rd Edition

DAVID GOULD & GILLIAN MCLELLAN

Davies Veterinary Specialists, UK; University of Wisconsin-Madison Veterinary Medical Teaching Hospital, USA

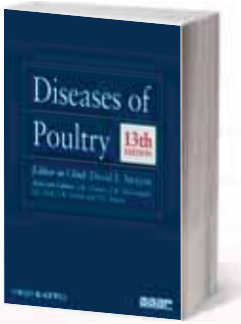
- ❖ This new edition of one of BSAVA's most popular Manuals has been extensively revised, drawing on the expertise of a predominantly new roster of authors
- ❖ The Manual focuses on common ophthalmic conditions in dogs and cats, structured into examination and clinical techniques, followed by the diagnosis and treatment of common ocular diseases
- ❖ Provides an accessible source of practical information for general practitioners, veterinary students, nurses and technicians as well those working toward specialist qualifications
- ❖ Utilises a problem-oriented approach to common clinical presentations

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**BSAVA Manual
of Canine and
Feline
Ophthalmology**



Diseases of Poultry

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- ❖ Provides comprehensive coverage of all aspects of poultry diseases, including pathogenesis, diagnostics, epidemiology, and control methods
- ❖ Maintains its position as the international definitive reference on diseases of poultry
- ❖ Includes new information on recently developed diagnostic tools, zoonotic infection for poultry pathogens, conceptual operational biosecurity, and disease control in organic production systems

READERSHIP: poultry veterinarians, veterinary diagnosticians, poultry scientists, students specializing in poultry health, and government officials who deal with poultry health

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- ❖ Updated and expanded to include recent advances in the field, with new chapters on ophthalmic genetics and DNA tests, surgical and laser applications, camelid ophthalmology, and marine mammals and penguins, with a new companion website offering the images from the book for download and references linked to PubMed at www.wiley.com/go/gelatt/ophthalmology

READERSHIP: Ophthalmology specialists and residents, as well as practitioners with a special interest in ophthalmology and veterinary students

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READERSHIP: veterinarians, including rehabilitation practitioners, orthopedic surgeons, neurosurgeons, and physiotherapists

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Guide to Making and Interpreting Radiographs

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- ❖ Offers concrete guidance for improving the quality of radiographs and the accuracy of diagnosis
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READERSHIP: Small animal practitioners, veterinary students, and radiologists

APR 2013 • 392PP • 978-1-118-54747-2 • CL • €TBA

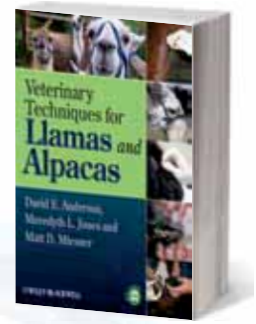
Veterinary Techniques for Llamas and Alpacas

DAVID ANDERSON, MATT MIESNER & MEREDYTH JONES

University of Tennessee at Knoxville, USA; Kansas State University, USA; Texas A&M University, USA

- ❖ Presents a step-by-step guide to performing procedures in llamas and alpacas
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Cell and Molecular Biology

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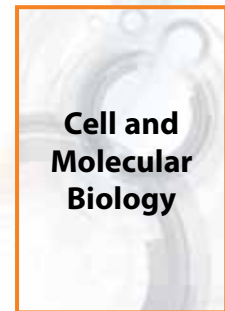
GERALD KARP

Formerly of the University of Florida, Gainesville, USA

- ❖ Written for an introductory course in cell and molecular biology, this text elaborates on fundamental concepts
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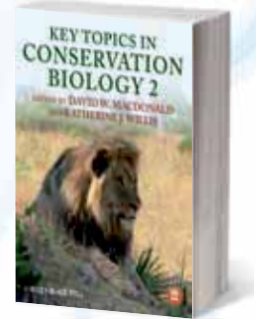
DAVID W. MACDONALD & KATHERINE J. WILLIS

Both from University of Oxford, UK

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- ❖ Builds upon the very influential first volume, *Key Topics in Conservation Biology*, published in 2006
- ❖ Explores an additional 25 cutting-edge issues in modern biodiversity conservation, including controversial subjects such as setting conservation priorities and balancing the focus on species and ecosystems
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READERSHIP: Postgraduates in conservation biology and conservation science, as well as undergraduates in conservation in a variety of disciplines
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2nd Edition

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- ❖ Provides an applied tone and emphasises ways of testing the utility of invasion theories using a variety of investigative techniques (e.g. observation, modelling, and experimentation)

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Annual Plant Reviews: Plant Nuclear Structure, Genome Architecture and Gene Regulation

Volume 46

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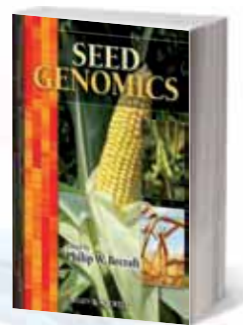
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**Biofuel Crop
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**Simulating
Process and
Pattern**





Spatial and Spatio-Temporal Geostatistical Modeling and Kriging

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Climate Adaptation Futures

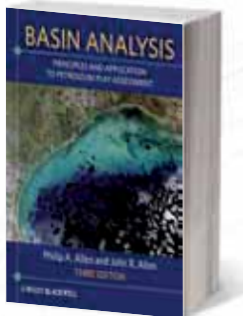
JEAN PALUTIKOF, SARAH L. BOULTER, ANDREW J. ASH, MARK STAFFORD SMITH, MARTIN PARRY, MARIE WASCHKA & DANIELA GUITART

National Climate Change Adaptation Research Facility, Griffith University, Australia; CSIRO Climate Adaptation Flagship, Australia; The Centre for Environmental Policy, Imperial College London and The Grantham Institute, University College London, UK

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Principles and Application to Petroleum Play Assessment
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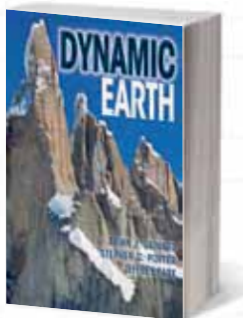
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BRIAN J. SKINNER

Yale University, New Haven, Connecticut, USA

- ❖ Uses GPS measurements to introduce plate tectonics and covers historic evidence, based on paleomagnetism
- ❖ Features revised chapter order based on feedback from users
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- ❖ About 25% of the illustrations in this edition are new, and many of the new illustrations reflect current and on-going research

READERSHIP: Undergraduate students taking an introductory course in Physical Geology

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REPLACES ISBN: 978-0-471-16118-9

Physics and Chemistry of the Deep Earth

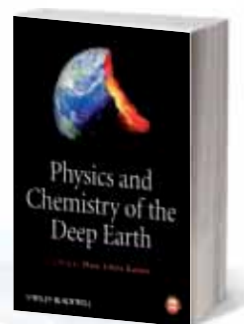
SHUN-ICHIRO KARATO

Yale University, USA

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Ecohydraulics

An Integrated Approach

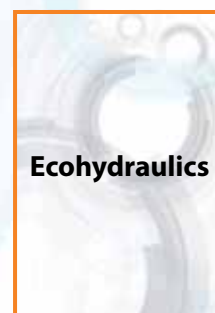
PAUL KEMP, ATLE HARBY, IAN MADDOCK & PAUL J. WOOD

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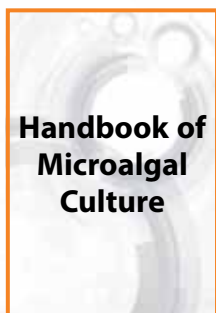
University of Connecticut, USA

- ❖ Provides a detailed examination of the concentration, form and cycling of trace metals and metalloids through the aquatic biosphere
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Handbook of Microalgal Culture



Handbook of Microalgal Culture

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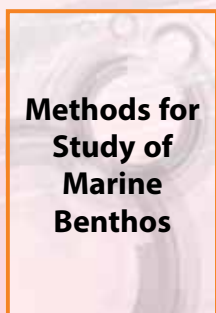
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Methods for Study of Marine Benthos

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Lobsters

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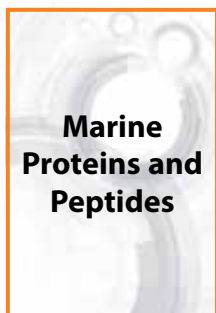
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Marine Proteins and Peptides

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READERSHIP: Pharmaceutical companies, nutraceutical manufacturers, food scientists and marine biochemists, as well as those in the field of seafood processing, marine by-products processing, marine biotechnology and food nutraceuticals

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Wines from Grape Dehydration

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Wines from Grape Dehydration





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Interpretation and Presentation of Firearms Evidence

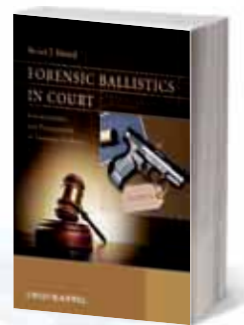
BRIAN J. HEARD

Formerly of the Ballistics and Firearms Identification Bureau for the Royal Hong Kong Police, Hong Kong

- ❖ Serves as an accessible introduction to firearms and ballistics evidence and how these are analysed and presented as evidence in a court of law
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Applications in Forensic Science

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- ❖ Serves as the first book to approach the fast developing field of wildlife forensics with a focus on the application of DNA profiling and analysis, assuming only a basic background knowledge of DNA
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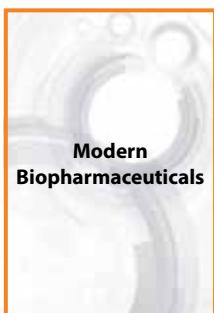
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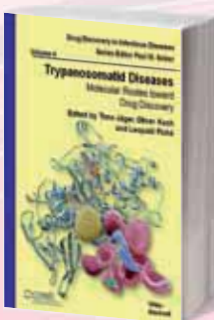
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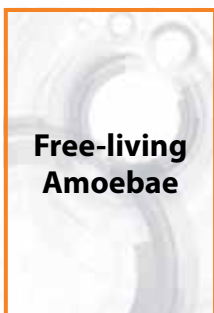
Drug Discovery for Trypanosomatid Diseases

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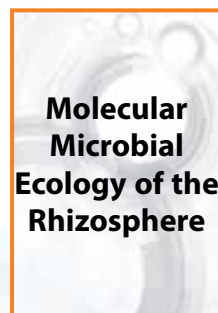
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Laboratory for Plant-Microbe Interactions, France

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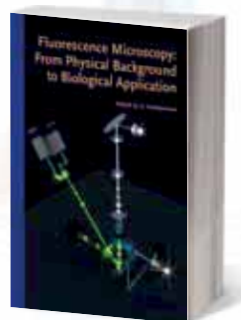
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MALDI MS



MALDI MS

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2nd Edition

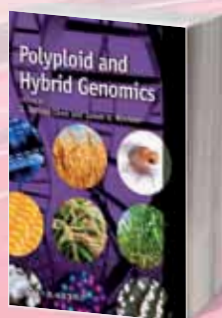
FRANZ HILLENKAMP & JASNA PETER-KATALINIC

Both of the University of Muenster, Germany

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Polyploid and Hybrid Genomics

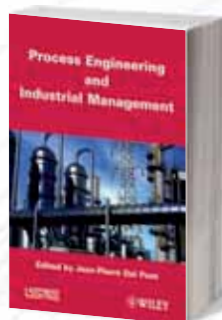
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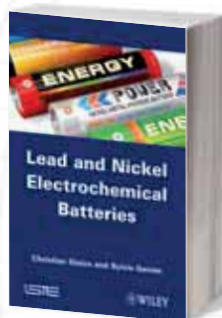
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Lead-Nickel Electrochemical Batteries

C. GLAIZE

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- ❖ Shows that the design of batteries is not fixed, nor should it ever be
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READERSHIP: Electrical engineers, industrialists, and electrochemistry engineers

SERIES: ISTE

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Multi-Objective Optimization

Developments and Prospects for Chemical Engineering

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National University of Singapore, Singapore

- ❖ Summarises recent theoretical and computational developments of Multi-Objective Optimisation, MOO, and its techniques and novel applications
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READERSHIP: Researchers and postgraduate students in chemical engineering; industrial practitioners and engineers in process design, modelling and optimisation in chemical and related process industries

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READERSHIP: Third and fourth year undergraduate and postgraduate students in chemical engineering, chemical engineers, chemists, and biotechnologists

APR 2013 • 424PP • 978-1-444-32025-1 • PR • €39.95 / 978-1-444-32024-4 • CL • €100.00

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- ❖ Provides insights into integrated separations using non-conventional arrangements, including both current and future approaches and technologies
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Pharmaceutical Blending and Mixing

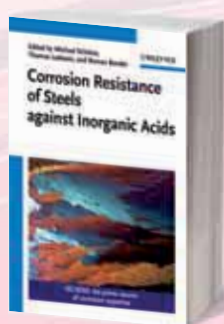
Pharmaceutical Blending and Mixing

P J CULLEN & CHRIS O'RIELLY

Dublin Institute of Technology, UK; Loughborough University, UK

- ❖ Links the science of blending with regulatory requirements associated with pharmaceutical manufacture and the FDA's PAT Initiative
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- ❖ Addresses a gap in the current literature for a dedicated reference on blending within the pharmaceutical manufacturing industry

READERSHIP: Pharmaceutical researchers, equipment designers, and manufacturing / production units, regulatory agencies, university researchers in pharmaceutical science, chemical and mechanical engineering, and bioprocessing
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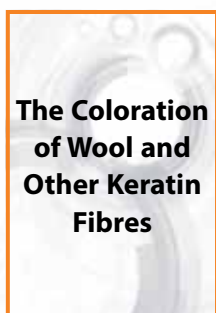
Corrosion Resistance of Steels Against Inorganic Acids

MICHAEL SCHÜTZE, THOMAS L. LADWEIN & ROMAN BENDER

Dechema, Germany; Aalen University of Applied Science, Germany; Dechema, Germany

- ❖ Discusses how metal, food, dye, fertiliser, sugar, explosive, fibre, electrochemical, feedstock, cosmetic and petrochemical depend on hydrochloric, sulfuric, nitric and phosphoric acids for storage, transportation and to induce reaction
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READERSHIP: Corrosion specialists, chemical engineers, mechanical engineers, civil engineers, materials scientists, and chemists
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The Coloration of Wool and Other Keratin Fibres

The Coloration of Wool and Other Keratin Fibres

D. LEWIS

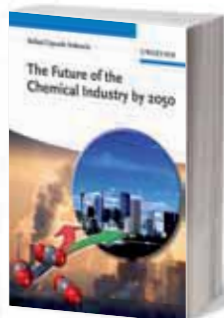
University of Leeds, UK

- ❖ Covers all general topics related to dyeing and printing of wool, wool blends and other keratin fibres
- ❖ Provides a scientific and technical knowledge on colouration of keratin fibres, and is used as part of the Wiley-Society of Dyers and Colourists Series
- ❖ Features how keratin fibres, particularly wool fibres, constitute an important natural raw material in the textile field due to its comfort and thermal proprieties

READERSHIP: Academic and industrial textile research centres, cosmetic research laboratories, dye-houses, manufacturers of dyes and dyeing auxiliaries; undergraduates and postgraduates in textile engineering and fashion & textiles

SERIES: SDC-SOCIETY OF DYERS AND COLOURISTS

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RAFAEL CAYUELA VALENCIA

- ❖ Examines the status of the chemical industry by 2050, and how the challenges of the chemical industry will be met
- ❖ Explores how the technological supremacy of the chemical industry can help put the industry in a leading position to solve some of the major global challenges

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Industrial Organic Pigments

Production, Properties, Applications

4th, Completely Revised Edition

KLAUS HUNGER, THOMAS HEBER, MARTIN U. SCHMIDT, FRIEDRICH REISINGER & STEFAN WANNEMACHER

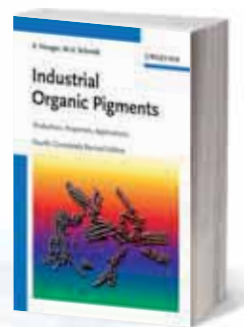
Formerly Hoechst AG, Germany; Clariant Deutschland GmbH, Germany; Johann-Wolfgang-Goethe-Universität, Germany; Clariant Deutschland GmbH, Germany; Clariant Deutschland GmbH, Germany

- ❖ Offers international standard information on the synthesis, reaction mechanisms, properties, relevant test methods, and applications of organic pigments
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READERSHIP: Practitioners in the dyes and pigments industry, paints and coatings industry, chemical industry, automobile industry and plastics industry; company libraries and students in chemistry

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Responsible
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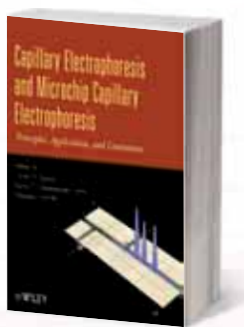
MARK RAYNOR, WILLIAM GEIGER & CAROL MEYER

- ❖ Covers the advances of measurement technology in gas analysis
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- ❖ Gives a wide range of practical applications of gas analysis including advantages, problems, and pitfalls
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Advances in
Specialty and
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Gas Analysis



Capillary Electrophoresis and Microchip Capillary Electrophoresis

Principles, Applications, and Limitations

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University of Texas, USA; University of Sao Paulo, Brazil

- ❖ Features sections on the fundamentals of electrophoretically driven separations and capillary electrophoresis, and a discussion on the application techniques
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- ❖ Includes key contributors in the areas of CE and MCE discussing topics from Dynamic coatings to Electrochemical Detection
- ❖ Discusses common limitations of the CE technique and details possible troubleshooting measures

READERSHIP: Analytical chemistry practitioners, experts in capillary electrophoresis, microfluidics, and detection at the microchip scale, and advanced undergraduate students and postgraduate students

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Foodomics

Advanced Mass Spectrometry in Modern Food Science and Nutrition

A. CIFUENTES

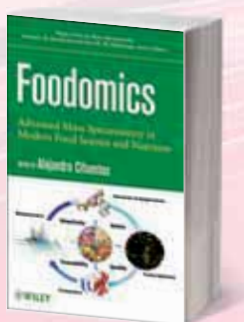
National Research Council, Spain

- ❖ Includes fundamentals, theory, methodological approaches, and important foodomic applications
- ❖ Presents the characteristics, advantages, limits and future perspectives of these new approaches in the food science and nutrition fields
- ❖ Provides a global and completely new perspective on the possibilities of “omics” approaches based on mass spectrometry techniques combined with systems biology in food science and nutrition
- ❖ Covers applications of “omics” in wine, green foodomics, nutrition and health research, and anti-aging targets and strategies

READERSHIP: Experts working and studying different topics of food science, nutrition and “omics” technologies such as researchers and PhD students from control laboratories, universities, hospitals and regulation agencies

SERIES: WILEY SERIES ON MASS SPECTROMETRY

APR 2013 • 582PP • 978-1-118-16945-2 • CL • €83.50



Surface Plasmon Enhanced, Coupled and Controlled Fluorescence

CHRIS D. GEDDES

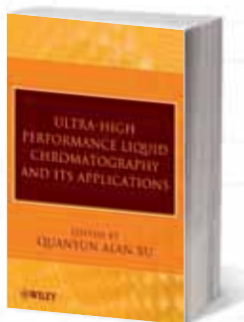
University of Maryland, USA

- ❖ Describes the current developments in surface plasmon enhanced, coupled and controlled fluorescence
- ❖ Features contributions by the world's leading scientists in the area of fluorescence and plasmonics, with cutting-edge research leading to new equipment
- ❖ Details methods used to understand solar energy conversion, detect and quantify DNA more quickly and accurately, and enhance the timeliness and accuracy of digital immunoassay

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JUN 2013 • 408PP • 978-1-118-02793-6 • CL • €100.00

Surface Plasmon Enhanced, Coupled and Controlled Fluorescence



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Q. ALAN XU

University of Texas, USA

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- ❖ Features U-HPLC topics coupled with ultra-violet detector (UV) and mass spectrometer (MS)

READERSHIP: Scientists and government agencies who utilise chromatographic techniques including academic and practitioners in the pharmaceutical, biotechnology, chemical, food, environmental and other industries

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Infrared Spectroscopic Imaging

ROHIT BHARGAVA

University of Illinois, USA

- ❖ Provides comprehensive text on a technology that starts from a beginners knowledge level and ends at the expert level, which includes a new topic, infrared spectroscopic imaging
- ❖ Features the works of an author with experience in instrumentation and all major application areas

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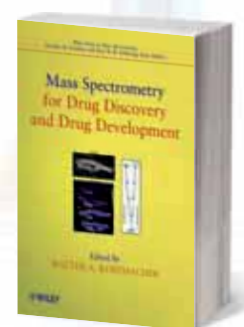
Mass Spectrometry for Drug Discovery and Drug Development

WALTER KORFMACHER

Merck Research Laboratories

- ❖ Explains how mass spectrometry is used in various stages of drug discovery and development which includes early support of medicinal chemistry, drug metabolism studies, and development assays
- ❖ Balances basic information on the role of mass spectrometry in the drug discovery process, covering advanced topics such as lipidomics, SiRNA and imaging mass spectrometry for protein and peptide assays
- ❖ Includes an introductory chapter and tutorial on MS techniques used in the field of drug discovery and development

READERSHIP: Pharmaceutical scientists that use mass spectrometry, medicinal chemists, postgraduate students in mass spectrometry, and bioanalysts in pharmaceutical drug development
 SERIES: WILEY SERIES ON MASS SPECTROMETRY
 MAR 2013 • 448PP • 978-0-470-94238-3 • CL • €80.50



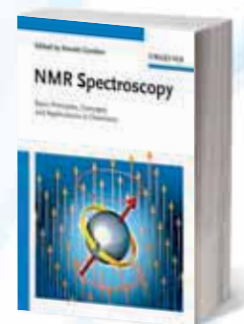
NMR Spectroscopy

HARALD GÜNTHER

University of Siegen, Germany

- ❖ Explains the topic in an efficient and accurate way with useful examples of organic chemistry, as well as a complete set of problems and solutions
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READERSHIP: Undergraduate, postgraduate, PhD students and lecturers in chemistry, biochemistry, pharmacy, and material sciences; and spectroscopists, organic chemists, analytical chemists, physical chemists, medicinal chemists, and libraries
 APR 2013 • 650PP • 978-3-527-33000-3 • PR • €60.00 / 978-3-527-33004-1 • CL • €105.00



The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging

2nd Edition

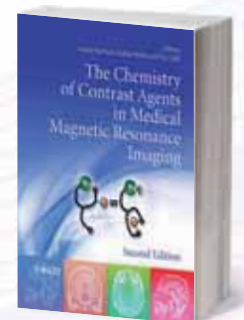
ANDRE S. MERBACH, EVA TOTH & LOTHAR HELM

University of Lausanne, Switzerland; Centre de Biophysique Moleculaire, France; Ecole Polytechnique Federale Lausanne, Switzerland

- ❖ Serves as a revised and extended volume presented in a larger format, and includes a new chapter on Nanoparticles as MRI Contrast Agents
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- ❖ Includes coloured images throughout for easy and accurate representation and interpretation

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 MAR 2013 • 528PP • 978-1-119-99176-2 • CL • €130.00

REPLACES ISBN: 978-0-471-60778-6





Integrated Solid Waste Management



Integrated Solid Waste Management

A Life Cycle Inventory

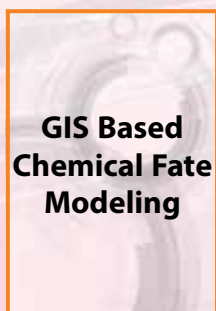
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FORBES R. MCDUGALL, PETER R. WHITE, MARINA FRANKE & PETER HINDLE

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GIS Based Chemical Fate Modeling



GIS Based Chemical Fate Modeling

Principles and Applications

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European Commission Joint Research Centre, Italy

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- ❖ Covers the methods and applications of GIS based chemical fate modelling, as well as spatial data retrieval and analysis
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- ❖ Includes practical and worked examples, as well as illustrated concepts and methods on the use of GIS functions for fate modelling which can be easily applied in most GIS packages

READERSHIP: Environmental scientists and engineers, risk assessors, toxicologists, hydrologists, and other scientists in environmental impact analysis and chemical fate modelling

APR 2013 • 368PP • 978-1-118-05997-5 • CL • €90.50



List of MAK and BAT Values 2012 – Maximum Concentrations and Biological Tolerance Values at the Workplace

EDITED BY DEUTSCHE FORSCHUNGSGEMEINSCHAFT (DFG)

Deutsche Forschungsgemeinschaft (DFG), Germany

- ❖ Features the complete list of MAK- and BAT values on a CD-ROM included in the book
- ❖ Includes the lists of substances which were reviewed in 2009/2010 and substances being examined for the establishment of MAK and BAT values in coming years
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READERSHIP: Physicians in industrial medicine, factory doctors, toxicologists, and trade association personnel

SERIES: MAK & BAT VALUES

OCT 2012 • 293PP • 978-3-527-33470-4 • PR • €95.00

REPLACES ISBN: 978-3-527-33061-4



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READERSHIP: Corporate leaders, safety managers, safety professionals, safety consultants, and regional and site managers with responsibilities for safety, and professors and students in the field

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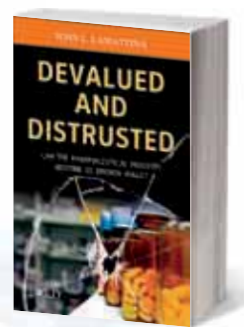
Devalued and Distrusted

Can the Pharmaceutical Industry Restore its Broken Image?

JOHN L. LAMATTINA

- ❖ Presents a balanced evaluation of the pharmaceutical industry, which describes the importance of pharmaceutical research for patients around the world
- ❖ Addresses the progress that the industry has made to measure the risks and benefits of new medicines
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Strategies, Technologies, and Applications

Y. YEO

Purdue University, USA

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- ❖ Discusses critical concepts to further developments in the field and reduce overall costs of research

READERSHIP: Researchers and scientists in the pharmaceutical, nanotechnology, nanomedicine and biotechnology industries, and postgraduate students of pharmaceutical sciences, biomedical engineering and related health sciences
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ESI MS/MS Spectra of Designer Drugs 2012

PETER RÖSNER

University of Kiel, Germany

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READERSHIP: Forensic scientists, toxicologists, clinical chemists, investigating authorities, analytical laboratories, military authorities, and the army
 MAR 2013 • 350PP • 978-3-527-33344-8 • Software* • €1950.00



High-Throughput Screening Methods in Toxicity Testing

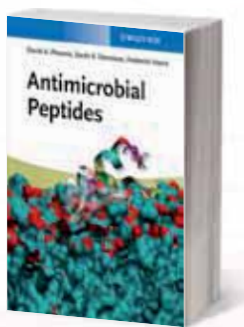
PABLO STEINBERG

University of Veterinary Medicine, Germany

- ❖ Helps toxicologists understand high-throughput methods to evaluate chemical toxicity with explanation on the advantages and limitations of each method
- ❖ Covers methods, data generation, data analysis, and applications in risk assessment for major toxicological assays
- ❖ Describes future directions for making assays cost-effective, streamlined, and easy to use
- ❖ Addresses a timely topic as toxicologists and risk assessors shift to high-throughput methods to fit new paradigms motivated by Europe's REACH legislation and the US National Research Council

READERSHIP: Veterinary and medical toxicologists, pharmacologists, analytical chemists, pharmaceutical scientists, health and environmental risk assessors, biochemist and academic researchers, industry and regulatory professionals in chemical and drug safety evaluation and risk assessment
 APR 2013 • 582PP • 978-1-118-06563-1 • CL • €100.00





Antimicrobial Peptides

DAVID A. PHOENIX, SARAH DENNISON & FRED HARRIS

All of University of Central Lancashire, UK

- ❖ Addresses a growing medical concern of classic antibiotics losing their power due to the emergence of multidrug-resistant pathogenic strains, creating a highly dangerous gap in anti-infective treatment
- ❖ Discusses the fact that peptide-based antibiotics are currently the most promising candidates for a new generation of anti-infectives and anticancer agents
- ❖ Features the works of a small team of authors presented in a comprehensive and accessible manner that is well suited for students and junior researchers

READERSHIP: Biochemists, medicinal chemists, molecular biologists, and relevant personnel in the pharmaceutical and biotechnological industries
 MAR 2013 • 256PP • 978-3-527-33263-2 • CL • €109.00



Pharmacogenomics of Human Drug Transporters

Clinical Impacts

TOSHIHISA ISHIKAWA, RICHARD B. KIM & JÖRG KÖNIG

RIKEN Yokohama Institute, Japan; University of Western Ontario, Canada

- ❖ Emphasises pharmacogenomics and its influence on drug therapy with balanced coverage on the mechanistic aspects and functional outcomes
- ❖ Explains the principles of altered drug transport in drug-drug interactions, pharmacotherapy, and personalised medicine
- ❖ Reviews individual drug transporters, including specific transporter families and clinical implications

READERSHIP: Pharmaceutical scientists, pharmacologists, biochemists, genetics and genomics researchers, clinical scientists; contract research organisations and other drug development groups, and postgraduate students
 APR 2013 • 448PP • 978-0-470-92794-6 • CL • €100.00

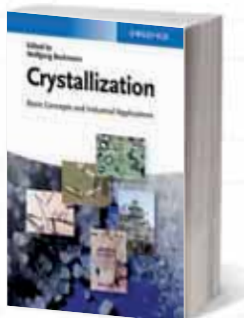


Risk Management Applications in Pharmaceutical and Biopharmaceutical Products Manufacturing

HAMID MOLLAH, HAROLD BASEMAN & MIKE LONG

- ❖ Contains both the theory and practice of risk management
- ❖ Provides the background, tools, and application of risk in pharmaceutical and biologics manufacturing and operations
- ❖ Includes case studies and specific examples, useful references and a bibliography
- ❖ Aids in assisting both industry and regulatory agencies to implement risk management approaches that are compliant and effective

READERSHIP: Pharmaceutical and biological products manufacturers, R&D and regulatory affairs professionals, medical device and food professionals, students and teachers in pharmaceutical engineering, pharmaceutical science and technology, and regulatory affairs
 SERIES: WILEY SERIES IN BIOTECHNOLOGY AND BIOENGINEERING
 APR 2013 • 422PP • 978-0-470-55234-6 • CL • €83.50



Crystallization

WOLFGANG BECKMANN

Bayer Technology Services, Germany

- ❖ Features crystallisation as indispensable in optimising industrial processes
- ❖ Includes a perfect blend of theoretical background and application oriented discussions, including the latest research developments and industrial examples
- ❖ Provides content that is drawn from the expertise of authors at leading academic institutions and pharmaceutical companies such as Bayer, AstraZeneca and Novartis

READERSHIP: Chemical engineers, pharmaceutical chemists; practitioners in pharmaceutical, chemical, food and biotechnological industry; postgraduate and Ph.D. students in chemistry and pharmaceuticals
 FEB 2013 • 368PP • 978-3-527-32762-1 • CL • €129.00

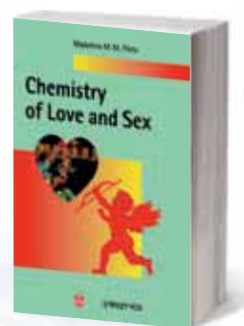
Chemistry of Love and Sex

MADALENA M. M. PINTO

University of Porto, Portugal

- ❖ Provides details on the molecular basis of emotions related to love, passion, and sex, with over 60 illustrations
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Modern Fluoroorganic Chemistry

Second, Completely Revised and Enlarged Edition

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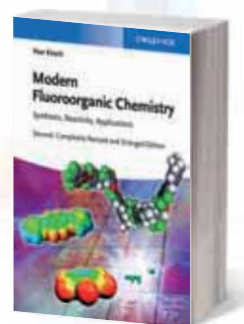
Merck KGaA, Germany

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Reactions, Mechanisms, and Structure

7th Edition

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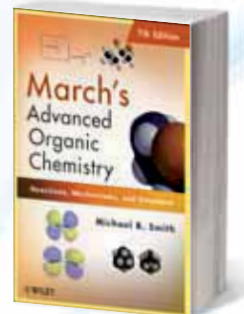
University of Connecticut, USA

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Palladium-Catalyzed Coupling Reactions

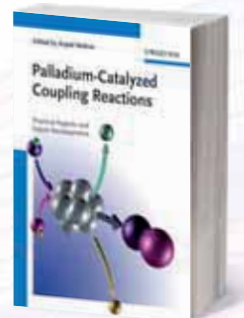
EDITED BY ÁRPÁD MOLNÁR

University of Szeged, Hungary

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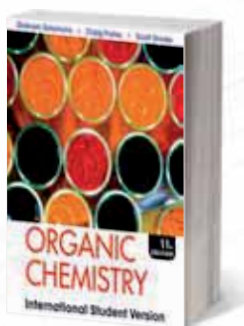
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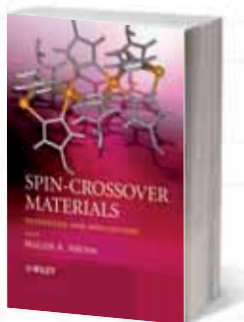
University of South Florida; Pacific Lutheran University; Columbia USA

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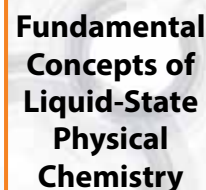
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Eindhoven University of Technology, The Netherlands

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**Fundamental
Concepts of
Liquid-State
Physical
Chemistry**

Advances in Chemical Physics, Liquid Polymorphism

Volume 152

H. E. STANLEY

Boston University, USA

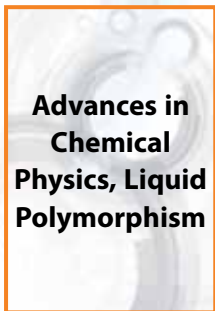
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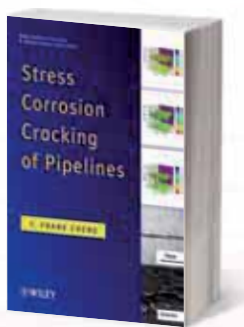
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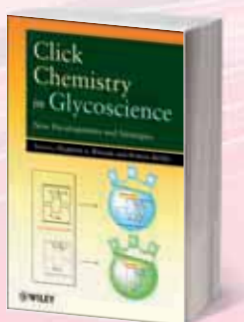
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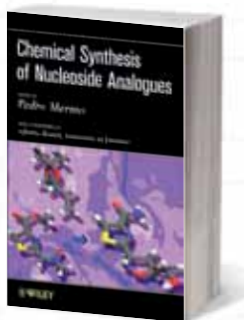
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**Glutathione
Synthesis**

Understanding Diabetes

A Biochemical Perspective

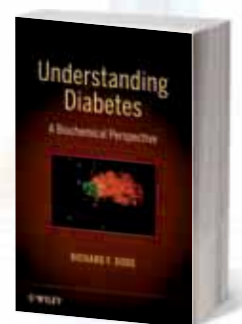
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New York University, USA

- ❖ Provides simple explanations of diabetes from a biochemical perspective, complete with glossaries, footnotes, and references to external resources within each chapter
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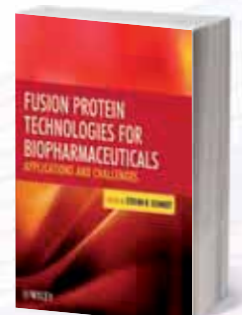
STEFAN R. SCHMIDT

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Single Molecule Studies of Protein Folding

Single Molecule Studies of Protein Folding

JANE CLARKE, ROBERT BEST & ALESSANDRO BORGIA

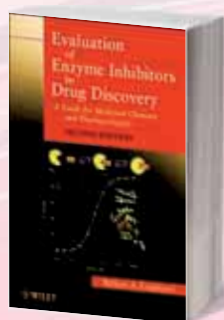
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Computational Approaches to Energy Materials

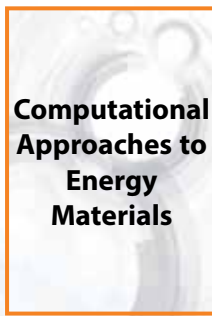
RICHARD CATLOW, ALEXEY SOKOL & ARON WALSH

All of University College London, UK

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Computational
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Energy
Materials



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Research
Methods for
the Health
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Handbook of Health Surveys Methods

TIMOTHY P. JOHNSON

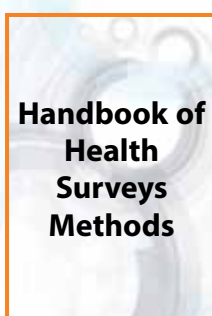
University of Illinois at Chicago, USA

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- ❖ Includes five sections that address important facets of the health survey process: design/sampling, measurement, field practices, surveys for special populations, and data management and analysis
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Handbook of
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Oxydative Ageing of Polymers

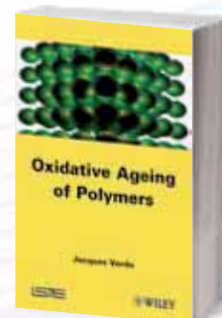
J. VERDU

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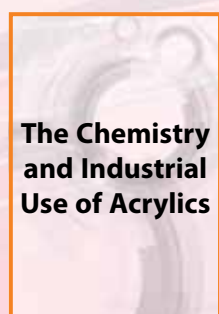
Polymer Adhesion, Friction, and Lubrication

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University of Alberta, Canada

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DR STEPHAN KABASCI

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From Blends and Composites to Gels and Complex Networks

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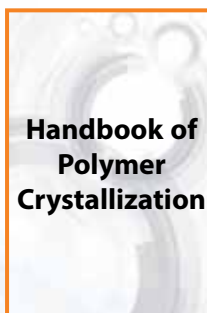
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Handbook of
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Crystals in Glass

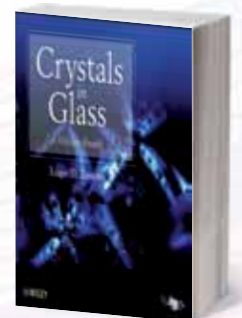
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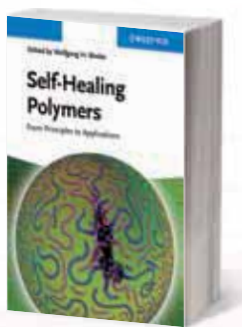
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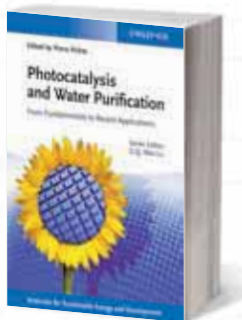
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Understanding
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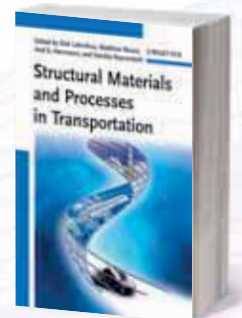
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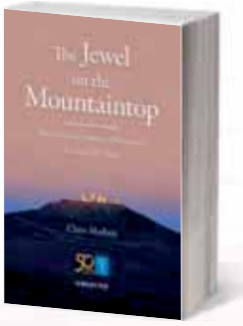
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Structural Materials
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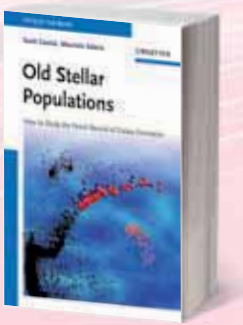
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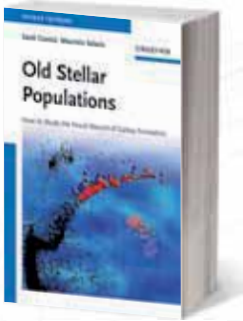
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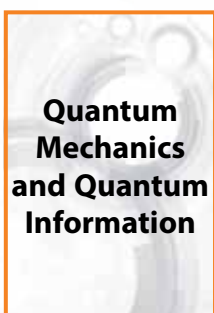
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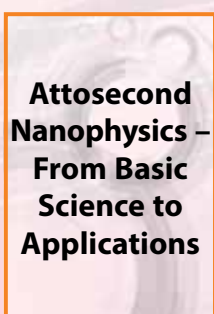
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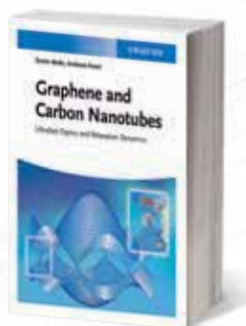
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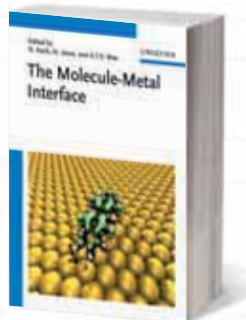
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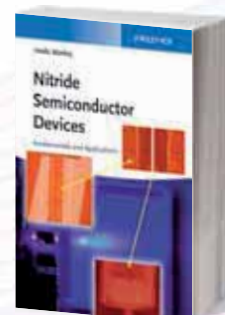
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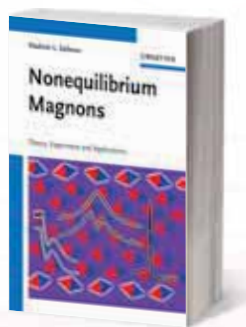
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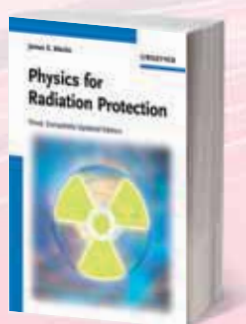
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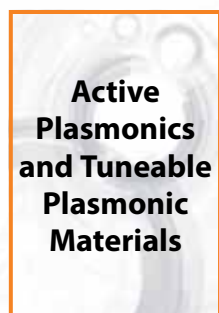
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**Nanobeam
X-Ray
Scattering**

Atomic Structure Prediction of Nanostructures, Clusters and Surfaces

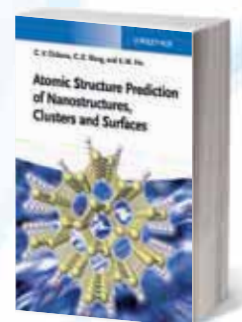
CRISTIAN V. CIOBANU, CAI-ZHUAN WANG & KAI-MING HO

Colorado School of Mines, USA

- ❖ Serves as a new and comprehensive reference to the modelling of atomic structure of nanoscale systems
- ❖ Features numerical recipes and model geometries to help professionals and researchers in nanoscience and surface science to use the techniques
- ❖ Includes problem sets that facilitate additional use of this monograph and act as supplementary reading for courses

READERSHIP: Solid state physicists and chemists, materials scientists, theoretical physicists, semiconductor physicists, university and company libraries

APR 2013 • 230PP • 978-3-527-40902-0 • CL • €85.00



Nanomedicine for Drug Delivery and Therapeutics

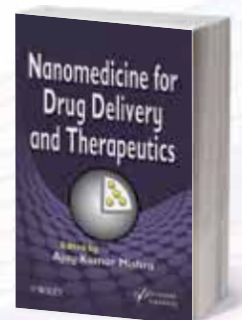
EDITED BY AJAY K. MISHRA

University of Johannesburg, South Africa

- ❖ Provides current and future information on the research and development of biomedical, clinical and nanotechnology
- ❖ Focuses on the broad area of research and applications in nanomedicine, drug delivery and therapeutics
- ❖ Presents an overview of the fundamental concepts and the numerous applications in this quickly evolving multidisciplinary area of research and practice

READERSHIP: Researchers, academics and health specialists

APR 2013 • 500PP • 978-1-118-41409-5 • CL • €147.00





NanoInnovation

MICHAEL TOMCZYK
University of Pennsylvania, USA

- ❖ Serves as an innovative, easy-to-read guide on the “nanoscale revolution”, which provides essential knowledge of nanotechnology and clearly explains the fundamentals of nanomaterials and properties
- ❖ Offers a realistic look at nanotechnology and provides an orientation in the nanoworld through major lines of research, key players in research and development as well as social, economic and political issues
- ❖ Features a level-headed discussion of critical issues for decision makers and stakeholders

READERSHIP: Materials scientists, industrial planners, engineering scientists, chemists and physicists in the industry, chemical organisations, journalists, industry politicians and management consultants
MAY 2013 • 325PP • 978-3-527-32672-3 • PR • €32.50



CBRN and Hazmat Incidents at Major Public Events

Planning and Response
DAN KASZETA
Strongpoint Security Limited

- ❖ Provides methods for planning and responding to potential hazard at any high visibility event
- ❖ Includes general planning and preparedness procedures such as planning considerations at the early stages, developing a response network and building an assessment scheme
- ❖ Describes the planning and preparedness procedures for different providers i.e. medical, fire, police, military, laboratory / scientific, and VIP protection
- ❖ Includes 14 specific scenarios of high visibility events and the methods used in them

READERSHIP: Operators and planners in multiple disciplines responsible for the planning and response of large events, private sector security providers, managers of large venues, universities, state and local government officials and hospital staff
NOV 2012 • 448PP • 978-1-118-28819-1 • CL • €53.50

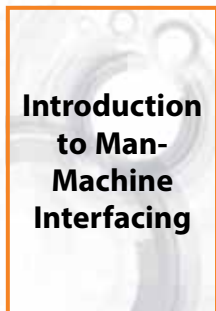


Emergency Management Exercise Design

A Practical Guide to Homeland Security Exercise and Evaluation Program Exercises
ROGER C. HUDNER
Applied Research Associates, SAIC

- ❖ Serves as the only emergency management book to date that discusses HSEEP guidelines, a federally mandated programme essential for securing federal funding
- ❖ Provides the technical information pertaining to HSEEP and combines it with first-hand knowledge to demonstrate its use on a practical level
- ❖ Includes ready-to-use scripts for a variety of scenarios and simulations
- ❖ Covers exercises for different types of disasters such as hurricanes, tornados, earthquakes, pandemics, and dirty bombs

READERSHIP: Emergency management trainees, emergency managers, officer responder units, fire and police chiefs, sheriffs, consultants, and other professionals responsible for emergency exercises, as well as undergraduates, high school and college students taking emergency management
APR 2013 • 380PP • 978-1-118-19488-1 • CL • €60.50



Introduction to Man-Machine Interfacing

DARIO FARINA & KEN YOSHIDA
Georg-August University, Germany

- ❖ Covers the essentials for PhD programmes in biomedical or neural engineering
- ❖ Presents the reader with state-of-the-art technologies for interfacing the neuromuscular system with external devices and gives an overview of the current challenges and recent advances within the field
- ❖ Includes Matlab exercises

READERSHIP: Professors, postgraduate and PhD students in biomedical engineering, electronics engineering, neuroinformatics, neurocomputation, medical informatics, neural engineering, and neuroscience
SERIES: IEEE PRESS SERIES ON BIOMEDICAL ENGINEERING
MAY 2013 • 300PP • 978-1-118-18167-6 • CL • €73.50

Biomedical Signal Processing Using Matlab

Theory and Practice

LUCA MAINARDI & ROBERTO SASSI

Politecnico di Milano; Università degli Studi di Milano

- ❖ Presents a logical step-by-step tutorial on biomedical signal processing, from the theory to the practical using Matlab coding
- ❖ Focuses on examples and practical projects for teaching the subject which makes it an ideal practical text for lab-based courses in biomedical signal processing
- ❖ Features two main sections whereby the first section, Chapters 2 to 6, introduces basic topics in biomedical signal processing, while the second section, Chapters 7 to 11, deals with advanced and novel biomedical signal processing methodologies
- ❖ Includes access to a companion website that hosts an online instructor manual with solutions of selected homework problems

READERSHIP: Lecturers, postgraduate and PhD students in biomedical engineering, and practitioners and professionals in the field of BSP
JUN 2013 • 576PP • 978-0-470-97353-0 • CL • €70.00

Biowireless

The Integration of Wireless Technologies and Smart Instruments in Biomedical Applications

M. MAHFOUZ

University of Tennessee, USA

- ❖ Provides a thorough explanation of the transition from basic engineering design to an advanced level of hardware and software implementation on various biomedical applications
- ❖ Features information on topics such as signal processing basics, types of sensing mechanisms, wireless technology, energy harvesting techniques, wireless systems in hospitals and emerging applications
- ❖ Includes reference material for more advanced topics such as application development and a companion website featuring problems with solutions and well as example codes - Matlab, Mathematica and C/C++

READERSHIP: Postgraduate students in biomedical engineering and electrical engineering, professional engineers in the design of biowireless systems, biomedical engineers, instrumentation engineers, wireless engineers, environmental engineers, senior research assistants and computer scientists

SERIES: WILEY - IEEE

JUN 2013 • 384PP • 978-1-119-94339-6 • CL • €74.95

Biomedical Photoacoustic Imaging

Theory, Practice and Applications

PAUL BEARD & BENJAMIN T. COX

- ❖ Serves as a reference text suitable for newcomers to the field, explaining the underlying physical principles of photoacoustic imaging
- ❖ Discusses many potential applications in oncology, neurology and cardiovascular in both clinical diagnosis and basic research
- ❖ Offers material that could be used to supplement existing reading lists for courses on medical ultrasound imaging, medical imaging in general and courses used to train radiographers and clinical radiologists

READERSHIP: Postgraduate students, postdoctoral researchers, engineers and scientists in the medical imaging industry, clinicians, and life scientists

SERIES: A WILEY-SCIENCE WISE CO-PUBLICATION

MAY 2013 • 600PP • 978-1-118-03206-0 • CL • €99.50

Active and Passive Vibration Damping

AMR M. BAZ

University of Maryland, USA

- ❖ Features the written work of an internationally recognised authority and pioneer
- ❖ Presents a mix of associated physical fundamentals, governing theories and optimal design strategies of various configurations of vibration damping treatments
- ❖ Includes access to a companion website that contains MATLAB software, solutions to all problems, PowerPoint slides, supporting tools that enable hands-on experience of the analysis, design, optimisation, and application to a wide range of situations

READERSHIP: Researchers in vibration damping, research engineers in structural dynamics, practicing engineers in materials and mechanical engineering, and senior undergraduates and postgraduates in vibrations and vibrations damping

JUN 2013 • 492PP • 978-1-118-48192-9 • CL • €78.00

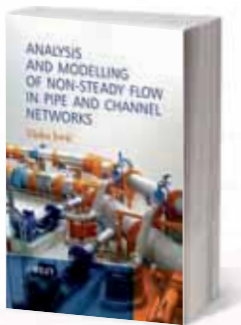
Biomedical
Signal
Processing
Using Matlab

Biowireless

Biomedical
Photoacoustic
Imaging

Active and
Passive
Vibration
Damping





Analysis and Modelling of Non-Steady Flow in Pipe and Channel Networks

VINKO JOVIC

University of Split, Croatia

- ❖ Presents the theory and practice of modelling different flows in hydraulic networks, with numerical solutions based on the finite element technique
- ❖ Features a systematic approach that addresses the topic from the fundamentals
- ❖ Includes access to a website containing the Simpip programme

READERSHIP: Engineers, practitioners and postgraduate students in civil, mechanical and environmental engineering
MAY 2013 • 552PP • 978-1-118-53214-0 • CL • €100.00



Nanoimprint Technology

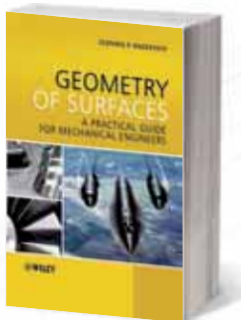
Nanotransfer for Thermoplastic and Photocurable Polymer

JUN TANIGUCHI

Tokyo University of Science, Japan

- ❖ Covers important basic knowledge on nanoimprint technology and applications
- ❖ Provides a thorough review of the state-of-the-art in nanotransfer technology
- ❖ Includes thorough coverage in the areas of nanoimprint and micro-contact printing

READERSHIP: Engineers, undergraduate and postgraduate students studying materials sciences, nanotechnology and mechanical engineering
SERIES: MICROSYSTEM AND NANOTECHNOLOGY SERIES (ME20)
JUN 2013 • 280PP • 978-1-118-35983-9 • CL • €87.50



Geometry of Surfaces

A Practical Guide for Mechanical Engineers

STEPHEN P. RADZEVICH

Principal Gear Engineer, USA

- ❖ Presents an in-depth analysis on the geometry of part surfaces and new developments in the elementary theory of enveloping surfaces
- ❖ Provides tools for solving complex engineering problems in the field of mechanical engineering
- ❖ Combines differential geometry and gearing theory

READERSHIP: Researchers and practitioners in the mechanical, automotive and aerospace engineering industries, CAD developers and postgraduate students in mechanical engineering
MAR 2013 • 264PP • 978-1-118-52031-4 • CL • €100.00



Advanced Structural Damage Detection

From Theory to Engineering Applications

TADEUSZ STEPINSKI

Uppsala University, Sweden

- ❖ Takes a multidisciplinary approach and provides a comprehensive review of main SHM techniques
- ❖ Presents real case studies and practical application of techniques for damage detection in different types of structures
- ❖ Offers both theoretical principles and feasibility studies of a number of SHM techniques
- ❖ Includes a number of new and novel data processing algorithms and demonstrates real operating prototypes

READERSHIP: Industry engineers, designers, manufacturers and postgraduate students in mechanical and civil engineering
JUN 2013 • 300PP • 978-1-118-42298-4 • CL • €90.00



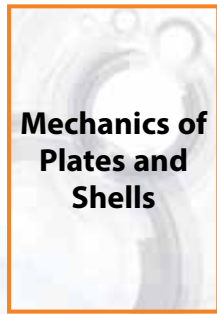
Mechanics of Plates and Shells

HOLM ALTENBACH & VICTOR EREMEYEV

Both of Otto-von-Guericke-Universität Magdeburg, Germany

- ❖ Analyses the most widely used methods and explains the foundation of the theories, especially the consequences following problem dimension reduction
- ❖ Covers advanced materials such as composites and functionally graded materials
- ❖ Uses examples to demonstrate the need for new and improved theories in advanced materials for rod, plate or shell-like structures

READERSHIP: Postgraduate students, researchers and practicing engineers in mechanical, aerospace and civil engineering
 JUN 2013 • 320PP • 978-1-119-94296-2 • CL • €81.25



**Mechanics of
Plates and
Shells**



Electromechanical Motion Systems

Design and Simulation

FREDERICK G. MORITZ

FM Systems, USA

- ❖ Covers both theory and practical information at an introductory level, allowing readers to advance to further topics
- ❖ Provides a connection between classic servo technology and the evolution of computer control and simulation
- ❖ Builds up from classic topics, facing their problems and advantages, through to design and simulation
- ❖ Includes VisSim demonstration material available on an accompanying website, enabling readers to experiment with system examples

READERSHIP: Electrical and mechanical systems design engineers, design engineers for control systems, sales and marketing personnel, engineering and company libraries, professors, postgraduate and advanced undergraduate students in mechanical engineering courses, and government labs
 JUN 2013 • 448PP • 978-1-119-99274-5 • CL • €86.50

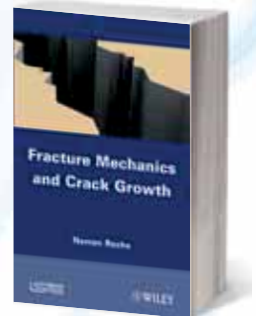


Fracture Mechanics and Crack Growth

N. RECHO

- ❖ Analyses mechanical fields close to material or geometrical singularities such as cracks
- ❖ Describes failure criteria and how it is established as a function of the singularity degrees related to these discontinuities

READERSHIP: Practitioners in the fields of engineering and materials science, mechanical engineering and failure fracture
 SERIES: ISTE
 FEB 2012 • 250PP • 978-1-848-21306-7 • CL • €212.00



Design and Analysis of Composite Structures

With Applications to Aerospace Structures

2nd Edition

CHRISTOS KASSAPOGLOU

Delft University of Technology, The Netherlands

- ❖ Includes two new chapters on composite fittings, and the application and design of a composite panel
- ❖ Provides a toolkit of analysis and design methods to generate meaningful and robust designs of complex composite structures
- ❖ Includes solutions that can be used in optimisation schemes without having to run finite element models at each iteration
- ❖ Offers a complete set of lecture slides and solutions to the exercises hosted on a companion website for instructors

READERSHIP: Engineers and postgraduate students in aerospace, mechanical, civil and marine engineering
 SERIES: AEROSPACE SERIES
 APR 2013 • 400PP • 978-1-118-40160-6 • CL • €75.00
 REPLACES ISBN: 978-1-600-86780-4



**Design and
Analysis of
Composite
Structures**



Aeroelasticity using the Finite Element Method



Aeroelasticity using the Finite Element Method

ERASMO CARRERA, MARCO PETROLO, ALBERTO VARELLO & ENRICO ZAPPINO

All of Politecnico di Torino, Italy

- ❖ Formulates and describes the details of coupling between finite elements and classical aerodynamic theories
- ❖ Proposes advanced 1D and 2D structural FE models in a form similar to the formulation used in classical beam, plate and shell theories that permit exploration of aeroelastic phenomena not considered by classical theories
- ❖ Discusses classical aeroelasticity problems related to wings and panels

READERSHIP: Researchers in continuum mechanic of solids and structures, structural analysts in industry, and undergraduate and postgraduate students in civil, mechanical and aerospace engineering

JUN 2013 • 300PP • 978-1-118-33785-1 • CL • €87.95



Multiscale Mechanics and Mechanics of Biological Materials

SHAOFAN LI

University of California, USA

- ❖ Offers a unique interdisciplinary approach to multiscale biomaterial modelling aimed at both accessible introduction and advanced levels
- ❖ Presents a breadth of computational approaches for modelling biological materials across multiple length scales, from molecular to whole-tissue scale, including solid and fluid based approaches
- ❖ Features the works of contributors that are among the most active researchers in multiscale simulations

READERSHIP: Postgraduates, professors and researchers in bio-mechanics, bioengineering and medicine, nano-mechanics, and computational mechanics, as well as industry professionals and researchers working in materials science and biological chemistry

MAR 2013 • 488PP • 978-1-118-35079-9 • CL • €87.50

Numerical Calculation of Lubrication



Numerical Calculation of Lubrication

Methods and Programs

PING HUANG

University of Technology, China

- ❖ Provides numerical solution methodologies including appropriate software for hydrodynamic and elasto-hydrodynamic lubrication of bearings
- ❖ Offers a clear introduction and orientation to all major engineering lubrication problems and their solutions
- ❖ Presents numerical programmes for specific applications in engineering, with special topics including grease lubricated bearings and gas bearings
- ❖ Equips those working in tribology and those new to the topic with the fundamental tools of calculation

READERSHIP: Postgraduate and senior undergraduate students in tribology and mechanical engineering courses, engineers and researchers in thin-film fluid mechanics

JUN 2013 • 450PP • 978-1-118-45119-9 • CL • €100.00

Modeling Electrokinetic Phenomena in Micro- and Nanofluidic Technology



Modeling Electrokinetic Phenomena in Micro- and Nanofluidic Technology

SHIZHI QIAN & SANG W. JOO

- ❖ Provides a comprehensive understanding of basic electrokinetic phenomena, corresponding mathematical models, and detailed recipes to simulate them
- ❖ Includes the most recent results on modelling electrokinetic phenomena in micro and nanofluidic technology
- ❖ Offers references that have been recently peer-reviewed in journal papers

READERSHIP: Postgraduate students and researchers in the areas of nanotechnology, mechanical engineering, micro and nanofluidics, heat transfer, thermal management, transport phenomena, and colloid science at universities, and industrial and government labs

MAY 2013 • 400PP • 978-0-470-62035-9 • CL • €90.50

Aircraft Systems Integration of Air-Launched Weapons

KEITH A. RIGBY

BAE Systems Military Air Solutions

- ❖ Collates a wide range of topics on weapons integration that is not currently covered in published literature, providing essential reading for aircraft systems engineers
- ❖ Covers all of the fundamental issues including the use of GPS to extend the effectiveness of older airframes e.g. B-52, interoperability within NATO countries, and the challenge of the design of autonomous platforms carrying weapons as part of unmanned aircraft systems
- ❖ Builds knowledge and experience quicker than would be gained on a real integration programme

READERSHIP: Weapons engineers and researchers, postgraduate students in weapons engineering, project managers, concepts designers and systems engineers

SERIES: AEROSPACE SERIES

MAY 2013 • 272PP • 978-0-470-97118-5 • CL • €81.50



Introduction to Soil Mechanics

BÉLA BODÓ & COLIN JONES

BSc BA MICE - retired geotechnical engineer; retired from the University of Wales, Newport where he was Programme Director for the Civil Engineering provision specialising in the area of Soil Mechanics and Geotechnics

- ❖ Provides full coverage of the fundamental soil mechanics and Eurocode7 with examples and problems
- ❖ Features a large collection of student problems

READERSHIP: Undergraduate students of civil engineering

APR 2013 • 400PP • 978-0-470-65943-4 • PR • €29.99

**Introduction
to Soil
Mechanics**



Structural Analysis and Design

PETER MARTI

Swiss Federal Institute of Technology in Zurich, Switzerland

- ❖ Emphasises on practical construction over calculation
- ❖ Features chapters with examples and exercises on engineering practice

READERSHIP: Civil engineers, engineering consultants, test engineers, technical colleges, and universities of applied sciences, and university libraries

JAN 2013 • 750PP • 978-3-433-02991-6 • CL • €80.00

**Structural
Analysis and
Design**

Formal Methods

Industrial Used from Model to the Code

JEAN-LOUIS BOULANGER

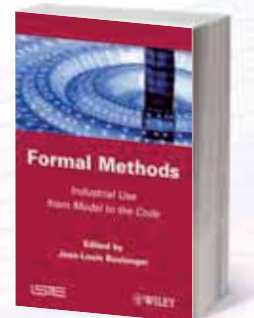
Independent Safety Assessor

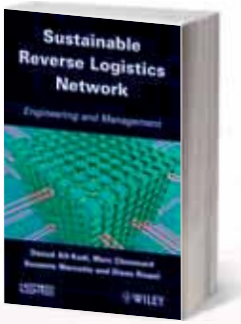
- ❖ Presents feedback from the use of "formal methods" such as proof and model-checking, and in industrial examples within the transportation domain
- ❖ Covers the topics of SAET-METEOR, the B method and B tools, model-based design using Simulink, the Simulink design verifier proof tool, the implementation and applications of Safety Critical Application Development Environment (SCADE), GATeL: A V&V Platform for SCADE models and ControlBuild
- ❖ Provides first-hand experience of people who are currently involved in the creation and evaluation of safety critical system software

READERSHIP: Practitioners in the fields of engineering and materials science, industrial engineering, and general industrial engineering

SERIES: ISTE

MAY 2012 • 978-1-848-21362-3 • CL • €125.00





Sustainable Reverse Logistics Network

Engineering and Management

DAOUD AÏT-KADI, MARC CHOUINARD, SUZANNE MARCOTTE & DIANE RIOPEL

Laval University, Canada; Laval University, Canada; Ecole des Sciences de la Gestion, UQÀM, Montréal, Canada; Ecole polytechnique de Montréal, Canada

- ❖ Discusses a value creation network integrating recovery, processing, recycling, distribution and clean removal processes
- ❖ Supplies an educational tool for engineering schools, as well as a management tool for the efficient implementation of the reverse logistics function
- ❖ Proposes generic concepts and processes that can be adapted to all businesses, and ones that aim to integrate reverse logistics

READERSHIP: Practitioners in the fields of engineering and materials science, industrial engineering and manufacturing

SERIES: ISTE

FEB 2012 • 978-1-848-21310-4 • CL • €109.00



Industrial Use of Formal Methods

Formal Verification

JEAN-LOUIS BOULANGER

Independent Safety Assessor

- ❖ Gives an explanation of formal techniques, which is less general than current available literature
- ❖ Features the experiences of people who are involved in the realisation and evaluation of software-based safety critical systems
- ❖ Presents “formal techniques” (such as proof and model-checking) on industrial examples for the transportation domain

READERSHIP: Practitioners in the fields of engineering and materials science, industrial engineering and general industrial engineering

SERIES: ISTE

978-1-848-21363-0 • CL • €125.00



Power Electronics and Energy Conversion Systems

Volume 1: Fundamentals and Hard-switching Converters

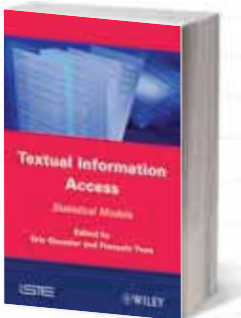
ADRIAN IOINOVICI

Holon Institute of Technology, Israel and Sun Yat-Sen University, China

- ❖ Summarises DC-to-DC converters in a reference that is accessible for researchers and designers working with power circuits
- ❖ Presents previously unpublished advancements in hard-switching converters including gallium nitride transistors, VRMs for microprocessors, and interleaving for reduced electromagnetic interference
- ❖ Includes the latest technology covered in senior undergraduate and postgraduate courses
- ❖ Offers access to a companion website with PowerPoint slides

READERSHIP: Senior undergraduate and postgraduate electrical engineering students in power electronics, practicing engineers, researchers and designers using power electronics circuits, aerospace, consumer electronics and renewable energy, power supply designers, procurement and engineering managers

FEB 2013 • 872PP • 978-0-470-71099-9 • CL • €90.95



Textual Information Access

Statistical Models

E. GAUSSIER

Grenoble Informatics Laboratory, France

- ❖ Presents statistical models that have recently been developed within several research communities to access information contained in text collections
- ❖ Focuses on the probability models used in information extraction and retrieval, text classification and clustering, opinion mining, and comprehension aids
- ❖ Revolves around the four themes of informational retrieval and ranking models, classification and clustering, multilingualism and machine translation, and emerging applications such as information exploration

READERSHIP: Practitioners in the fields of computing, computer science and information technologies

SERIES: ISTE

APR 2012 • 448PP • 978-1-848-21322-7 • CL • €152.00

Cyber Conflict

Competing National Perspectives

DANIEL VENTRE

CESDIP Laboratory

- ❖ Features the written works of researchers and experts in the fields of cyber security, cyber defense and information warfare
- ❖ Dedicates studies to describing various countries' application of information warfare principles, both in terms of global development and "local" usage and examples
- ❖ Analyses the processes of information warfare and cyber warfare through historical, operational and strategic perspectives of cyber attack

READERSHIP: Practitioners in the fields of computing, computer science and information technologies

SERIES: ISTE

APR 2012 • 352PP • 978-1-848-21350-0 • CL • €125.00



Scalable Computing and Communications

Theory and Practice

SAMEE U. KHAN, ALBERT Y. ZOMAYA & LIZHE WANG

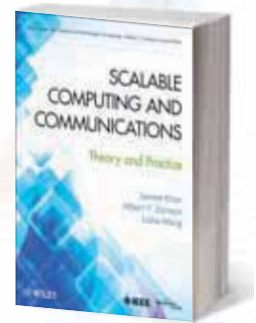
North Dakota State University, USA; University of Western Australia, Australia

- ❖ Includes chapters on cutting-edge topics in scalable computing and communications such as green communication, next generation networking and network-on-chip paradigms
- ❖ Features the works of internationally recognised researchers with chapters on basic concepts, software infrastructure and middleware, as well as applications and systems
- ❖ Incorporates case studies to illustrate concepts

READERSHIP: Researchers, engineers, and IT professionals who work in the fields of scalable computing, and postgraduate students taking courses in computer science, computer engineering and IT

SERIES: WILEY SERIES ON PARALLEL AND DISTRIBUTED COMPUTING

FEB 2013 • 896PP • 978-1-118-16265-1 • CL • €96.95



Risk Communication

A Handbook for Communicating Environmental, Safety, and Health Risks
5th Edition

REGINA E. LUNDRÉN

Pacific Northwest National Laboratory

- ❖ Includes a new chapter on social media for risk communication e.g. blogging, video and image sharing, and public health campaigns
- ❖ Features new real life examples including the Japanese Tsunami, Hurricane Irene and the Gulf oil disaster
- ❖ Presents the topic on risk communication in a highly accessible, understandable language and format
- ❖ Combines scientific research with hands-on advice from risk practitioners with more than 20 years experience in the field

READERSHIP: Practitioners, including scientists handling risk assessments, land use planners, health care practitioners and agencies, communication specialists, pharmaceutical and biotechnology firms, federal agencies, consumer product firms, and agribusinesses

JUN 2013 • 400PP • 978-1-118-45693-4 • PR • €56.95

REPLACES ISBN: 978-0-470-41689-1

Digital Color

Acquisition, Perception, Coding and Rendering

CHRISTINE FERNANDEZ-MALOIGNE, FREDERIQUE ROBERT-INACIO & LUDOVIC MACAIRE

Poitiers University, France; ISEN, France; Lille 1 University, France

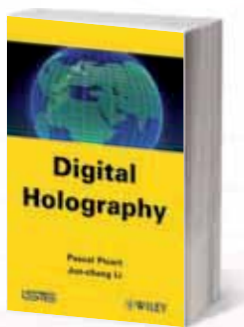
- ❖ Identifies basic concepts and recent advances in the acquisition, perception, coding and rendering of colour
- ❖ Addresses the fundamental aspects related to the science of colourimetry in relation to physiology, consistency, and colour appearance
- ❖ Focuses on technical aspects related to sensors, colour management screen, colour rendering in computer graphics and the coding, compression, protection and quality of colour images and videos

READERSHIP: Researchers, engineers, postgraduate and PhD students involved in digital colour, computing, and computer graphics

SERIES: ISTE

APR 2012 • 336PP • 978-1-848-21346-3 • CL • €125.00





Digital Holography

PASCAL PICART & JUN-CHANG LI

Université du Maine-Ecole Nationale Supérieure d'Ingénieurs du Mans, France; Kunming University of Sciences and Technologies, China

- ❖ Reveals the mathematical basics and linear filtering theory of digital holography
- ❖ Describes the fundamentals of the diffraction theory and exhaustively describes the numerical computation of diffracted fields using FFT algorithms
- ❖ Contains a chapter devoted to digital holographic interferometry with common applications

READERSHIP: Practitioners in computing, and computer graphics

SERIES: ISTE

FEB 2012 • 978-1-848-21344-9 • CL • €125.00



Fast-Tracking Your Career

Fast-Tracking Your Career

Soft Skills for Engineering & IT Professionals

W. CHOU

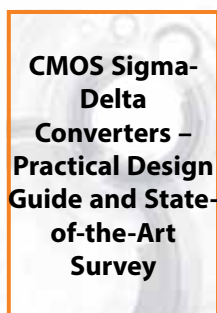
North Carolina State University, USA

- ❖ Identifies 11 core skills, which are crucial in fast-tracking your career
- ❖ Deals with a core skill and simple ways to master that skill in each chapter
- ❖ Contains 120 real life examples that scenarios engineers will come across in their day-to-day job
- ❖ Answers questions like, "How do I gain a customer's trust with enthusiasm?" and "How do I successfully network in an efficient way?"

READERSHIP: Engineers, IT professionals, and technical professionals

SERIES: IEEE PCS PROFESSIONAL ENGINEERING COMMUNICATION SERIES

MAY 2013 • 224PP • 978-1-118-52178-6 • PR • €33.50



CMOS Sigma-Delta Converters – Practical Design Guide and State-of-the-Art Survey

CMOS Sigma-Delta Converters – Practical Design Guide and State-of-the-Art Survey

DR JOSÉ DE LA ROSA & DR ROCÍO DEL RÍO

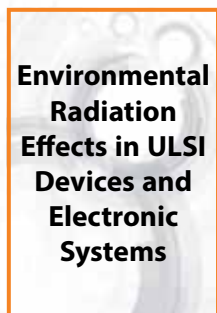
Both of University of Seville, Spain

- ❖ Offers a complete survey of sigma-delta converter modulator architectures from fundamentals to state-of-the art topologies
- ❖ Illustrates design issues at system level modelling in the MATLAB/SIMULINK environment and circuit-level implementation in Cadence
- ❖ Includes practical examples using MATLAB-based "SIMSIDES" (SIMulink Sigma-Delta Simulator) that are hosted on a companion website

READERSHIP: Researchers and electronics engineering practitioners interested in the design of high-performance data converters integrated in nanometer CMOS technologies, mixed-signal designers, and electrical engineering undergraduates and postgraduates

SERIES: WILEY - IEEE

APR 2013 • 432PP • 978-1-119-97925-8 • CL • €69.50



Environmental Radiation Effects in ULSI Devices and Electronic Systems

Environmental Radiation Effects in ULSI Devices and Electronic Systems

EISHI H. IBE

Hitachi, Ltd, Japan

- ❖ Presents faults and failures induced by wide variety of radiation fields including electrons, alpha-rays, muons, gamma rays, neutrons and heavy ions
- ❖ Provides an understanding of how electronic systems are shut down due to environmental radiation by constructing physical models and numerical algorithms
- ❖ Covers both terrestrial and avionic-level conditions
- ❖ Includes source code samples in the companion website, and a detailed background information of various modelling techniques in each chapter

READERSHIP: Researchers and postgraduates in nuclear and space radiation, semiconductor physics and electron devices, and other areas of applied physics modelling, and general readers

JUN 2013 • 400PP • 978-1-118-47929-2 • CL • €TBA



Global Navigation Satellite Systems, Inertial Navigation, and Integration

3rd Edition

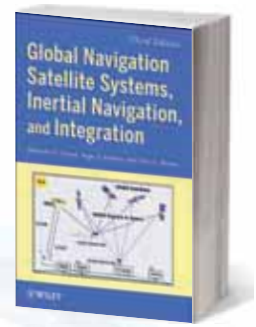
MOHINDER S. GREWAL, ANGUS P. ANDREWS & CHRIS G. BARTONE

California State University at Fullerton, USA; Rockwell Science Center, USA; Ohio University, USA

- ❖ Addresses state-of-the art integration techniques for global navigation satellite systems and inertial navigational systems
- ❖ Focuses on Kalman filtering and its applications to GPS/INS in one volume
- ❖ Includes a solutions manual for instructors and a software that demonstrates Kalman filter algorithms with GNSS and INS data sets

READERSHIP: Senior undergraduates, postgraduates, researchers and practitioners in control engineering
MAR 2013 • 584PP • 978-1-118-44700-0 • CL • €80.50

REPLACES ISBN: 978-0-470-04190-1



Operator-based Nonlinear Control Systems Design and Applications

MINGCONG DENG

Tokyo University of Agriculture and Technology, Japan

- ❖ Uses operator-theoretic approach
- ❖ Includes coloured images of systems that are downloadable from book landing page
- ❖ Covers the application of operator-theoretic approach on network controlled systems also known as vibration control systems

READERSHIP: Nonlinear system control theorists, practicing control system design engineers and theory engineers, applied mathematicians and postgraduate students in control systems engineering

SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING
JUN 2013 • 300PP • 978-1-118-13122-0 • CL • €66.95

Operator-based
Nonlinear
Control
Systems
Design and
Applications

Electromagnetic Simulation Using the FDTD Method

2nd Edition

DENNIS M. SULLIVAN

University of Idaho, USA

- ❖ Organises information in a tutorial fashion, starting with the simplest programmes and guiding the reader up to complex, three-dimensional programmes
- ❖ Provides the foundation for learning the FDTD method in the first four chapters
- ❖ Substantiates chapter five with information on new applications, including the FDTD method used in the design and analysis of highly resonant radio frequency coils that are often also used for MRI
- ❖ Includes MATLAB and C programming languages downloadable from the book support site

READERSHIP: Professional engineers, as well as undergraduate and postgraduate engineering students
MAY 2013 • 256PP • 978-1-118-45939-3 • CL • €60.50

REPLACES ISBN: 978-0-780-34747-2

Electromagnetic
Simulation
Using the FDTD
Method

Laser in Manufacturing

J. PAULO DAVIM

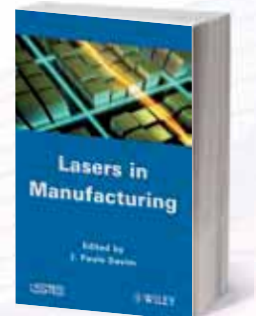
University of Aveiro, Portugal

- ❖ Addresses the fundamentals and recent research advances in LASER in manufacturing
- ❖ Focuses on an emerging area with a wide variety of applications, including electronics, moulds and dies, and biomedical applications
- ❖ Includes information on laser drilling, cutting, machining, welding, ablation, converting, engraving, microjet, dressing, rapid prototyping, micro/nano manufacturing, surface modification, and cladding
- ❖ Features contributions from experts with vast experience in academia and research in manufacturing, materials and mechanical engineering with special emphasis in machining and tribology

READERSHIP: Undergraduates, postgraduates, academics, manufacturing researchers, mechanical, materials and manufacturing engineers, and all professionals in related fields of LASER manufacturing

SERIES: ISTE

MAR 2012 • 978-1-848-21369-2 • CL • €125.00



Guide to State-of-the-Art Electron Devices



Guide to State-of-the-Art Electron Devices

J. N. BURGHARTZ

Institute for Microelectronics Stuttgart, Germany

- ❖ Includes information on a full range of electron device types such as photovoltaic devices, semiconductor manufacturing and VLSI technology and circuits, covered by IEEE Electron and Devices Society (EDS)
- ❖ Features the works contributed by internationally respected members of the electron devices community
- ❖ Serves as a timely desk reference with fully-integrated colour and a unique layout with sidebars to highlight the key terms
- ❖ Discusses historical developments and future trends to give a more rounded picture of the topics covered

READERSHIP: Present and potential new members of the IEEE Electron Device Society (EDS), R&D managers, engineers in the semiconductor industry, applied scientists, circuit designers, and professors and postgraduate students

SERIES: WILEY - IEEE

MAR 2013 • 344PP • 978-1-118-34726-3 • CL • €28.50

Incremental Learning in Intelligent Systems

Incremental Learning in Intelligent Systems

SEIICHI OZAWA, SHAONING PANG & NIKOLA KASABOV

- ❖ Serves as the first book that covers both single task and multiple task incremental learning, which will become one of the key technologies in the machine learning fields
- ❖ Provides thorough coverage of increment learning theories and practical applications including pattern recognition, time-series prediction, outlier detection, adaptive robotics, bioinformatics, and biomedical diagnosis
- ❖ Helps readers develop new learning theories and algorithms and to build new intelligent systems
- ❖ Features the works of renowned international experts from Japan, South Korea and New Zealand

READERSHIP: Researchers and postgraduate students in machine learning, pattern recognition, data mining and knowledge engineering

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

APR 2013 • 350PP • 978-0-470-87917-7 • CL • €76.95

Imbalanced Learning

Imbalanced Learning

Foundations, Algorithms, and Applications

HAIBO HE & YUNQIAN MA

University of Rhode Island, USA; Honeywell Labs

- ❖ Serves as the first comprehensive book on imbalanced learning with contributions from industry experts and academia
- ❖ Provides a critical review of state-of-the-art techniques, as well as the principles and foundation of imbalanced learning
- ❖ Illustrates critical applications of imbalanced learning in real-world problems

READERSHIP: Professionals in machine intelligence and machine learning, industrial researchers and R&D engineers, postgraduate students in electrical engineering, machine learning, data mining, and computational intelligence

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

APR 2013 • 300PP • 978-1-118-07462-6 • CL • €80.00

Type-2 Fuzzy Logic Control

Type-2 Fuzzy Logic Control

Introduction to Theory and Applications

JERRY MENDEL

University of Southern California, USA

- ❖ Includes experiment and simulation results, as well as computer programmes that can be downloaded
- ❖ Provides background information and application of type-2 fuzzy logic with extensive literature survey
- ❖ Discusses the scope of research questions

READERSHIP: Conventional or fuzzy control systems researchers and practitioners in industry ranging from automotive to consumer electronics to biomedicine, and undergraduates and postgraduates

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

MAY 2013 • 384PP • 978-1-118-27839-0 • CL • €66.95

Complex-Valued Neural Networks

Advances and Applications

AKIRA HIROSE

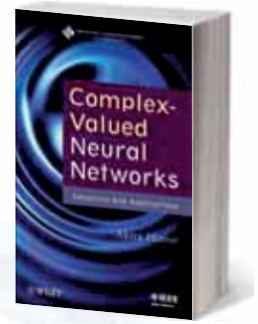
University of Tokyo, Japan

- ❖ Demonstrates the advanced theories of Complex-Valued Neural Networking through a wide range of applications
- ❖ Covers information on conventional Complex-Valued Neural Networks, Quaternionic Neural Networks and Clifford-Algebraic Neural Networks

READERSHIP: Advanced level computational intelligence theorists, mathematicians interested in computational intelligence, artificial intelligence, machine learning theories and algorithms, as well as electromagnetic theorists

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

MAR 2013 • 320PP • 978-1-118-34460-6 • CL • €83.50



Flight Formation Control

JOSEP GUERRERO & ROGELIO LOZANO

Universitat Politècnica de Catalunya

- ❖ Helps students and academics to better understand coordination and flight formation control
- ❖ Develops robust consensus strategies and distributed formation control for multi-UAV systems

READERSHIP: Students and practitioners in the fields of engineering and materials science, electrical and electronics engineering, intelligent systems and agents, and robotics

SERIES: ISTE

FEB 2012 • 978-1-848-21323-4 • CL • €125.00



Medical Robotics

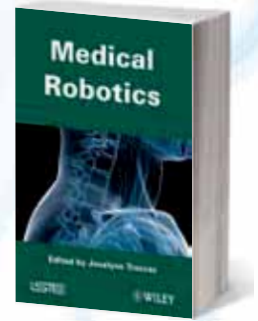
JOCELYNE TROCCAZ

- ❖ Focuses on the design and control of medical robots
- ❖ Offers a broad view of the domain of medical robotics, the keys to evolution in the field of medical robots and the preparation for the future of medical robotics
- ❖ Presents the evolution of medical robotics over three decades in terms of architecture, design and control, and the main scientific and clinical contributions to the field of medical robotics

READERSHIP: Practitioners and students in the fields of engineering and materials science, electrical and electronics engineering, intelligent systems and agents, and robotics

SERIES: ISTE

JAN 2012 • 978-1-848-21334-0 • CL • €169.00



Advanced Dynamic-system Simulation

Model-replication Techniques with DESIRE

2nd Edition

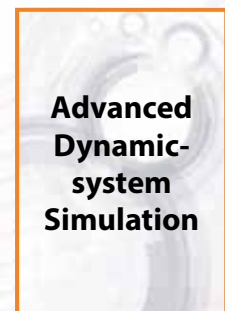
GRANINO A. KORN

University of Arizona, USA

- ❖ Features works written by the leading engineer who created DESIRE, which is useful for applications in computer science, finance and environmental science
- ❖ Provides instructions on how to implement modern simulation software such as DESIRE
- ❖ Includes two new chapters on Neural Networks, as well as an open-source software CD, which contains 200 example programmes that readers can edit and use in experiments

READERSHIP: Computer scientists and engineers, upper level undergraduate and postgraduate students in engineering and computer science who are using the DESIRE software

APR 2013 • 250PP • 978-1-118-39735-0 • CL • €73.50



Contemporary Issues in Systems Science and Engineering

Contemporary Issues in Systems Science and Engineering

MENGCHU ZHOU, HAN-XIONG LI & MARGOT WEIJNEN

City University of Hong Kong, China; Delft University of Technology, The Netherlands

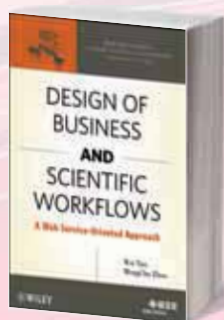
- ❖ Includes 27 chapters based on different discrete events, complete with discussions and conclusions
- ❖ Features works contributed by world-renowned systems engineers
- ❖ Enables readers to grasp each event holistically without getting into detailed engineering knowledge

READERSHIP: Systems engineers, systems or sub-systems designers; and mechanical, electrical and industrial engineers

SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

MAY 2013 • 800PP • 978-1-118-27186-5 • CL • €99.50

REPLACES ISBN: 978-1-118-15234-8



Design of Business and Scientific Workflows

A Web Service-Oriented Approach

HUAMIN ZHOU

- ❖ Presents updated research and development results on the composition technologies of web services for sophisticated service requirements from various users and communities
- ❖ Includes fundamental methods such as Petri nets and social network analysis to advance the theory and applications of workflow design and web service composition
- ❖ Covers practical and real applications of platforms such as personalised healthcare and Biomedical Informatics Grid

READERSHIP: Systems engineers, project managers, enterprise architects, and software developers of enterprise software

SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

APR 2013 • 200PP • 978-1-118-17133-2 • CL • €80.50



Designing High Availability Systems

Designing High Availability Systems

DFSS and Classical Reliability Techniques with Practical Real Life Examples

S. RANGANATHAN

- ❖ Features the works of authors who are experts in designing and delivering high availability systems with various experiences in industrial and defence industries
- ❖ Presents real life design and analysis, and ways in which to effectively integrate various design and analysis tools such as six sigma, failure analysis, and reliability analysis
- ❖ Includes MATLAB codes that can be downloaded to recreate problem sets presented in the book, as well as PowerPoint slides that outline the problem solving processes

READERSHIP: Systems engineers, software and hardware corporate architects and Six Sigma black belts

MAY 2013 • 390PP • 978-1-118-55112-7 • CL • €60.50

A Value Approach to Product and Systems Development

A Value Approach to Product and Systems Development

S. I. WEISS

- ❖ Integrates the technical, productivity, and user elements in product and system development
- ❖ Presents the results of over twenty years' of research and practice at the Stanford Center for Professional Development
- ❖ Contains numerous illustrations, case studies, and online material

READERSHIP: Postgraduate students in aerospace, mechanical, civil, electrical, and material engineering, and management science and engineering, as well as practicing engineers and medical product developers

MAY 2013 • 250PP • 978-1-118-33154-5 • CL • €63.50

Reliability Engineering

KAILASH C. KAPUR

University of Washington, USA

- ❖ Provides problems and solutions manual, and class-tested materials
- ❖ Helps readers set guiding principles that can be used to design and manage reliability programmes for the contemporary world
- ❖ Teaches readers to design process capability, considering potential failure modes, sites and mechanisms obtained from the physics of failure, analysis, and life cycle profile
- ❖ Explains how to integrate reliability methods and techniques in the Six Sigma process and design

READERSHIP: Professionals interested in the practical aspects of reliability, upper undergraduate and postgraduate students in related fields, safety and supportability teams; and university and company libraries
SERIES: WILEY SERIES IN SYSTEMS ENGINEERING AND MANAGEMENT
OCT 2012 • 480PP • 978-1-118-14067-3 • CL • €93.50



**Reliability
Engineering**

An Introduction to Nuclear Materials

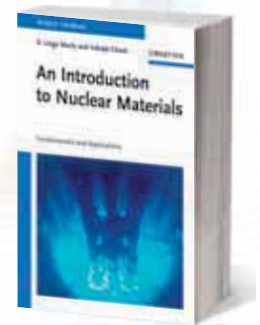
Fundamentals and Applications

K. LINGA MURTY & INDRAJIT CHARIT

Both of North Carolina State University, USA

- ❖ Covers both fundamental and advanced aspects of nuclear materials beginning with an overview of nuclear reactor systems, to help familiarise readers with varied designs
- ❖ Presents sophisticated concepts of nuclear materials in a lucid and accessible manner, and emphasises recent developments and outstanding problems in the subject
- ❖ Includes a summary and recommended references and problems in each chapter, as well as an appendix that contains useful property data relevant for nuclear reactor applications

READERSHIP: Postgraduate and undergraduate students, nuclear physicists, practitioners in the nuclear industry, engineers in power technology, and libraries
DEC 2012 • 398PP • 978-3-527-41201-3 • CL • €129.00



**Locational
Marginal
Pricing (LMP)
in Electricity
Markets**

Locational Marginal Pricing (LMP) in Electricity Markets

ZUYI LI

Global Energy Markets Solutions, USA

- ❖ Presents a detailed and in-depth introduction to the economic and technical foundations of modern electricity markets operating with locational marginal price (LMP), the key to understanding today's market operation
- ❖ Covers the important topics of transmissions and financial transmission rights, planning issues, and the relation to renewable sources
- ❖ Includes various illustrative examples and end-of-chapter problems for use as homework exercises
- ❖ Provides access to a companion website that links to the author's own page filled with further research in power markets and LMP, class projects, MATLAB codes and a solutions manual

READERSHIP: Senior undergraduate and postgraduate students in electrical power engineering, smart grid and renewable energy, and practicing engineers and analysts in power utilities and independent system operators

SERIES: WILEY - IEEE

MAY 2013 • 350PP • 978-1-118-35942-6 • CL • €69.50



Automated Fault and Disturbance Analysis

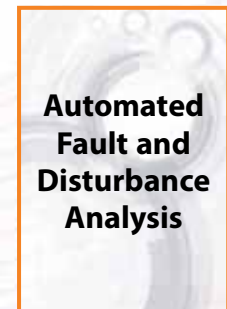
Smart Analysis for Smart Grids

MLADEN KEZUNOVIC

Texas A&M University, USA

- ❖ Introduces general concepts of faults and disturbances in power systems
- ❖ Describes how the 2018 intelligent systems technology can be successfully implemented to automate analysis of extensive data sets
- ❖ Assesses benefits of automation e.g. improved data collection, enhanced risk management capabilities, reliable decision making
- ❖ Provides a useful guide for utility engineers needing to automate their processes, presenting systems design and discussing deployment strategies

READERSHIP: Practicing engineers and utility managers in the power distribution industries, as well as senior undergraduates and postgraduates in power engineering, control and communications technologies
JUN 2013 • 300PP • 978-1-118-09726-7 • CL • €80.00



**Automated
Fault and
Disturbance
Analysis**

Extruded Cables for High Voltage Direct Current Transmission

Extruded Cables for High Voltage Direct Current Transmission

Advances in Research and Development

GIOVANNI MAZZANTI & MASSIMO MARZINOTTO

University of Bologna, Italy; Terna S.p.A, Italy

- ❖ Covers the fundamentals of HVDC cable transmission theory, HVDC cable design and insulation material and engineering
- ❖ Contains 100 images, including 30 black and white photo images
- ❖ Demonstrates the capabilities of life modelling i.e. how long the cable should last

READERSHIP: Power electric engineers specialising in high power cable engineering, high power cable manufacturers and insulation material engineers

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

JUN 2013 • 480PP • 978-1-118-09666-6 • CL • €83.50

Fundamentals and Application of Lithium-ion Battery Management in Electric Drive Vehicles

Fundamentals and Application of Lithium-ion Battery Management in Electric Drive Vehicles

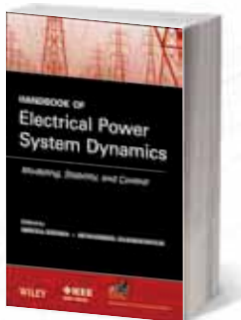
EDITED BY SAN PING JIANG

Curtin University of Technology, Australia

- ❖ Serves as a theoretical and technical guide to the electric vehicle lithium-ion battery management system
- ❖ Uses simulation technology, schematic diagrams and case studies to explain and offer detailed analysis of battery charge and discharge control principles
- ❖ Equips the reader with the understanding and concept of the power battery, providing a clear cognition of the application and management of lithium-ion batteries in electric vehicles
- ❖ Provides readers with a complete collection of case studies

READERSHIP: Researchers and professionals working in energy technologies, utility planners and system engineers, and postgraduate engineering students

JUN 2013 • 300PP • 978-1-118-41478-1 • CL • €95.00



Handbook of Electrical Power System Dynamics: Modeling, Stability, and Control

M. EREMIA

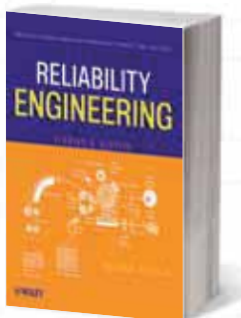
University "Politehnica" of Bucharest, Romania

- ❖ Includes over 600 figures and 1,200 equations to support new algorithms and theories on modelling, control and stability assessment
- ❖ Features the contributions of world-class experts from both academia and industry
- ❖ Covers information on alternative energy systems i.e. wind & solar

READERSHIP: Smart grid and power electric systems engineers and analysts, and postgraduate students

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

MAR 2013 • 1008PP • 978-1-118-49717-3 • CL • €96.95



Reliability Engineering

2nd Edition

ELSAYED A. ELSAYED

- ❖ Includes the computer software, Reliability Analysis Software2122, that provides useful tools for reliability estimation, failure time distributions, and a wide range of accelerated life models
- ❖ Offers problems at the end of each chapter and engineering examples to illustrate its application
- ❖ Features class-tested material at world-renowned reliability engineering programme at Rutgers University

READERSHIP: Senior undergraduates and postgraduate students in industrial and systems, mechanical, and electrical engineering programmes, as well as courses in life data analysis and statistics

SERIES: WILEY SERIES IN SYSTEMS ENGINEERING AND MANAGEMENT

JUN 2012 • 792PP • 978-1-118-13719-2 • CL • €129.00

Plug-In Vehicles – Grid Integration and Operations

GANESH KUMAR VENAYAGAMOORTHY & AHMED Y. SABER

Both of Missouri University of Science and Technology, USA

- ❖ Describes the integration of plug-in hybrid vehicles as an important part of a smart grid
- ❖ Presents the facts that emission from the power system and the transportation sector are the main factors of global warming
- ❖ Shows the amount of emission reduction from power system and the transportation sector with optimisation models
- ❖ Suggests that the reduction of electricity cost is possible by intelligently controlling and scheduling plug-in vehicles in a smart grid

READERSHIP: Power system engineers, industry professionals and researchers in power systems, plug-in vehicles, smart grid and the transportation sector

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

MAY 2013 • 400PP • 978-1-118-16809-7 • CL • €66.95

**Plug-In
Vehicles – Grid
Integration
and
Operations**

The Selection Process of Biomass Materials for the Production of Bio-Fuels and Co-firing

N. ALTAWELL

- ❖ Provides vital, ample, accurate and detailed data of a number of energy crops and their use by scientists working for energy generating company
- ❖ Tackles the selection issue related to biomass materials and the production of a new hybrid biofuel
- ❖ Includes the basics of biofuel and biofuels co-firing
- ❖ Introduces a useful matrix that includes not only technical and scientific factors, but also business factors such as environmental and human health factors

READERSHIP: Engineers, researchers, businessmen and economists who are involved in the renewable energy and biomass energy fields

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

JUN 2013 • 350PP • 978-1-118-54266-8 • CL • €83.50

**The Selection
Process of
Biomass
Materials for
the Production
of Bio-Fuels and
Co-firing**

Electrothermics

JAVAD FOULADGAR

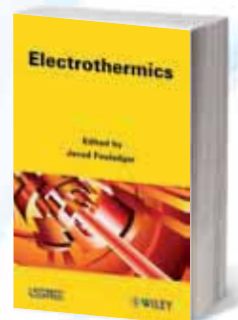
University of Nantes, France

- ❖ Focuses primarily on the analysis and design of induction heating of poor electrical conduction materials
- ❖ Studies the innovative applications of inductive plasma installation or transformers, thermo inductive non-destructive testing and carbon-reinforced composite materials heating
- ❖ Features tested and validated experimental models
- ❖ Contains chapters about mathematical tools for coupled electromagnetic and thermal phenomena, radio frequency inductive plasma installation, low frequency plasma transformers, the feasibility of the thermo inductive technique for non-destructive testing, and the use of induction heating in the lifecycle of carbon-reinforced composite materials

READERSHIP: Practitioners and students in the fields of engineering and materials science, electrical and electronic engineering, and electronic materials

SERIES: ISTE

MAR 2012 • 978-1-848-21242-8 • CL • €125.00



Smart Sensor Systems

Emerging Technologies and Applications

GERARD C. M. MEIJER

SensArt, The Netherlands

- ❖ Complements *Smart Sensor Systems*, published in Sept 2008, in both contents and scope with added practical applications
- ❖ Gives detailed coverage of sensor principles and characterisation, measurement techniques and, signal and data processing techniques as applied in smart sensor systems
- ❖ Includes access to a supplementary website that hosts case studies and solutions to the problems in the book

READERSHIP: Engineers and scientists involved in the design and application of sensor systems, R&D departments and laboratories of industrial companies and research institutes, and senior undergraduates and postgraduates

MAY 2013 • 312PP • 978-0-470-68600-3 • CL • €69.50

**Smart Sensor
Systems**



IPv6 Deployment and Management

TIMOTHY ROONEY

- ❖ Serves as a guide for readers to learn IPv6, understand the implications of deploying and not deploying IPv6, how to go about creating a plan to deploy IPv6, and how to deploy and manage IPv6 within an IPv4 network
- ❖ Features a guest introduction from Vint Cerf, a renowned computer scientist

READERSHIP: IP network engineers and managers in the information technology field, network engineering and operations organisations
 SERIES: IEEE PRESS SERIES ON NETWORK MANAGEMENT
 MAR 2013 • 256PP • 978-1-118-38720-7 • PR • €50.50



Real-Time Embedded Systems

JIACUN WANG

Monmouth University, USA

- ❖ Teaches readers how to programme an embedded computer, design for reliability and incorporate design patterns aimed especially at embedded systems development with reading suggestions
- ❖ Includes a chapter on practical issues concerning software reliability, aging, rejuvenation, security, power management, multi-core programming, and system function allocation
- ❖ Provides case studies in finite state machines, model-checking, real-time software design with Unified Modelling Language (UML), how to make engineering trade-offs of space, power use and performance
- ❖ Defines and explains software design for Object-Oriented (OO) design, real-time UML, Input/Output (I/O) devices and software architectures, and model-checking tool, NuSMV

READERSHIP: Industrial practitioners involve in real-time and embedded software design, development and management responsibilities; undergraduate and postgraduate students in computer engineering, computer science, information technology, and software engineering faculties
 SERIES: QUANTITATIVE SOFTWARE ENGINEERING SERIES
 APR 2013 • 500PP • 978-1-118-11617-3 • CL • €83.50



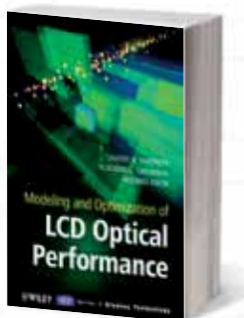
Pico-projection Systems

DR EDWARD BUCKLEY

Pixtronix Inc.

- ❖ Explains the basic concepts behind pico-projectors, and explores safety implications and potential markets
- ❖ Focuses on system level considerations rather than component level issues
- ❖ Includes LED-based and laser-based projection architectures, representing the two major candidate technologies currently under active development with comparable sub-sections for each to help highlight the comparative merits of the technologies

READERSHIP: Product development professionals in the consumer electronics and display industries, and investors who wish to obtain a balanced viewpoint of the future potential for such technologies
 SERIES: WILEY SERIES IN DISPLAY TECHNOLOGY
 MAY 2013 • 256PP • 978-1-119-95095-0 • CL • €77.50



Modeling and Optimization of Liquid Crystal Displays

HOI-SING KWOK, VLADIMIR G. CHIGRINOV & DMITRY A. YAKOVLEV

Hong Kong University of Science & Technology, China; Hong Kong University of Science & Technology, China; Saratov State University, Russia

- ❖ Presents a number of methods and techniques for the modelling and optimisation of liquid crystal devices, specific to the optical characteristics
- ❖ Contains information dealing with problems concerning polarisation optics, optics of anisotropic media, and optics of stratified media
- ❖ Highlights the importance of modelling to the LCD industry, including case studies from companies that are using the technology
- ❖ Includes a trial version of the modelling software

READERSHIP: Engineers and researchers involved in development and application of liquid crystal devices, postgraduate and PhD students studying liquid crystals or related topics such as material science or condensed matter physics
 SERIES: WILEY SERIES IN DISPLAY TECHNOLOGY
 MAY 2013 • 384PP • 978-0-470-68914-1 • CL • €75.00

VSC-FACTS, HVDC and PMU

Analysis, Modelling and Simulation in Power Grids

ENRIQUE E. ACHA, RODRIGO GARCÍA-VALLE, LUIGI VANFRETTI, ANTONIO DE LA VILLA JAÉN,
BEHZAD KAZEMTABRIZI & PEDRO RONCERO

University of Glasgow, UK; Technical University of Denmark, Denmark; KTH Royal Institute of Technology, Sweden; University of Seville, Spain; University of Glasgow, UK; University of Castilla-la Mancha

- ❖ Addresses new FACT power system application areas that have emerged over the past five years, including state estimation, constrained optimal power flow (OPF), and harmonic penetration
- ❖ Presents studies of FACTS dynamic performance and control, and the exploitation of phasor measurement units (PMU) for advanced FACTS monitoring, analysis and control
- ❖ Facilitates hands-on experience in modelling, analysis and simulation of electrical power networks with FACTS-HVDC-VSC equipment, through MATLAB routines and suitable data
- ❖ Comes with a companion website hosting software-based case studies

READERSHIP: Utility engineers, engineers in equipment design and manufacturing, academics and research students

JUN 2013 • 450PP • 978-1-119-97398-0 • CL • €94.50

Electricity Production from Renewables Energies

BENOIT ROBYNS, ARNAUD DAVIGNY, BRUNO FRANCOIS, ANTOINE HENNETON &
JONATHAN SPROTEN

Ecole des Hautes Etudes d'Ingénieur, France; Ecole des Hautes Etudes d'Ingénieur, France; Ecole Centrale de Lille, France; Ecole des Hautes Etudes d'Ingénieur, France; Ecole des Hautes Etudes d'Ingénieur, France

- ❖ Provides a better understanding of new technologies of electricity generation
- ❖ Presents the issues, sources, and means of conversion into electricity using a general approach
- ❖ Develops the notions of scientific basis to understand the main technical characteristics of renewable energy conversion

READERSHIP: Practitioners in the fields of engineering and materials science, electrical and electronic engineering, and power electronics

SERIES: ISTE

MAR 2012 • 978-1-848-21390-6 • CL • €109.00

Transformers and Inductors for Power Electronics

Theory, Design and Applications

WILLIAM HURLEY & WERNER WÖLFLE

National University of Ireland, UK; Convertec Ltd., UK

- ❖ Presents a rigorous approach to magnetic design with an emphasis on the fundamentals of electromagnetics
- ❖ Contains topics related to magnetic circuits and components that arise in power electronics including inductors, transformers, energy conversion, converters and automotive electronics
- ❖ Features a broad range of applications from modern power conversion systems including innovations in converters for transmission from renewable sources
- ❖ Includes end-of-chapter problems, worked examples in MATLAB and an accompanying website containing reference material related to the chapters in the book

READERSHIP: Senior undergraduate and postgraduate students in electrical engineering and electrical energy systems; and practicing engineers working with power supplies and energy conversion systems

APR 2013 • 392PP • 978-1-119-95057-8 • CL • €62.95

Advances in Electric Power and Energy

Forecasting in Electric Power Systems

MOHAMED E. EL-HAWARY

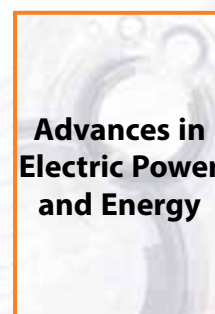
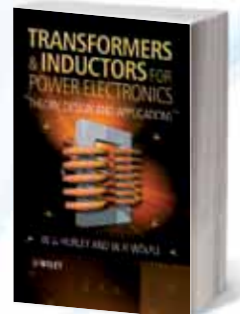
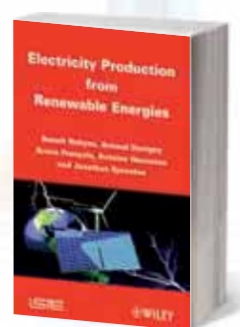
Dalhousie University, Canada

- ❖ Introduces advanced methods of time-series forecasting, as well as neural networks
- ❖ Deals with price forecasting in a competitive market
- ❖ Includes estimation of post-storm restoration times for electric power distribution systems

READERSHIP: Engineers and researchers in power system planning and operation; and postgraduate students

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

JUN 2013 • 400PP • 978-1-118-17134-9 • CL • €73.50



Fundamentals of Power Integrity

Fundamentals of Power Integrity

JOSEPH T. DIBENE II

Intel Corporation

- ❖ Features a unique focus on computer systems and silicon level power delivery unavailable elsewhere
- ❖ Offers detailed analysis of common problems in the industry
- ❖ Includes multiple exam problems and a detailed bibliography of references at the end of each chapter
- ❖ Provides tutorials at the end of the book, including sections on selected numerical methods, Fourier transformations, and other related topics

READERSHIP: Engineers in chip design industry, specifically physical design and packaging
MAY 2013 • 500PP • 978-1-118-09143-2 • CL • €83.50

Pulsewidth Modulated Dc-to-Dc Power Conversion

Pulsewidth Modulated Dc-to-Dc Power Conversion

Circuits, Dynamics, and Control Schemes

B. J. CHOI

University of Southampton, UK

- ❖ Provides comprehensive coverage of PWM DC-to-DC converters
- ❖ Includes text, problems, and simulation examples which have been continuously class-tested, revised, and updated, and a separate solution manual for 250 end-of-chapter problems
- ❖ Offers over 750 pages of PowerPoint lecture slides and over 180 PSpice Source Codes that are available for download free

READERSHIP: Professional engineers and postgraduate students
SERIES: IEEE PRESS SERIES ON POWER ENGINEERING
APR 2013 • 650PP • 978-1-118-18063-1 • CL • €93.50

Ultra-Capacitors in Power Conversion Systems

Ultra-Capacitors in Power Conversion Systems

Analysis, Modeling and Design in Theory and Practice

PETAR J. GRBOVIÆ

HUAWEI Technologies, Germany

- ❖ Provides a comprehensive insight into the ultra-capacitors theory, modelling and design from an application perspective
- ❖ Focuses on the practical aspects of power conversion and ultra-capacitor integration with power electronics systems
- ❖ Describes design procedures and control schemes for several different case studies
- ❖ Includes end-of-chapter exercises and design examples

READERSHIP: Power electronics engineers and professionals, industrial design engineers, application engineers, academic specialists, and upper undergraduates, postgraduates and PhD students in power electronics
SERIES: WILEY – IEEE
MAR 2013 • 300PP • 978-1-118-35626-5 • CL • €75.50

3D Face Modeling, Analysis and Recognition

MOHAMED DAUDI, ANUJ SRIVASTAVA & REMCO VELTKAMP

Telecom Lille 1; Florida State University, USA; Universiteit Utrecht, Netherlands

- ❖ Covers a wide range of applications including biometrics, 3D animation, facial surgery, forensics, and video communications
- ❖ Contains numerous exercises and algorithms
- ❖ Includes a section specifically on applications, making the book of interest to both those in research and industry

READERSHIP: Researchers, engineers, postgraduate and PhD students in the fields of image processing, pattern recognition, biometrics, face recognition, face modelling, facial surgery, video communications, 3D animation, and surveillance
JUN 2013 • 320PP • 978-0-470-66641-8 • CL • €75.50



Signal and Image Processing for Biometrics

EDITED BY AMINE NAIT-ALI & REGIS FOURNIER

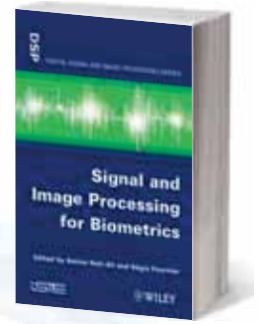
University of Paris 12, France; University Paris-Est Créteil, France

- ❖ Discusses numerous signal and image processing techniques that are very often used in biometric applications, such as algorithms related to hand feature extraction, speech recognition, 2D/3D face biometrics, and video surveillance
- ❖ Provides Matlab codes so that readers can easily reproduce some basic simulation results

READERSHIP: Final year undergraduate students, postgraduate students, engineers and researchers in the fields of computer engineering and applied digital signal and image processing

SERIES: ISTE

JUL 2012 • 336PP • 978-1-848-21385-2 • CL • €125.00



Digital Terrestrial Television Broadcasting

Technology and System

J. SONG

Tsinghua University, China

- ❖ Covers the fundamentals of channel coding and modulation technologies with emphasis on DTTB systems and Chinese DTTB standard
- ❖ Discusses the technologies used for DTTB receivers such as synchronisation, channel estimation and equalisation
- ❖ Introduces the SFN network using the successful implementation of DTMB in Hong Kong as an example

READERSHIP: Researchers, engineers, service providers, market analysts, policy makers, IT staff working in broadcasting, and universities

SERIES: THE COMSOC GUIDES TO COMMUNICATIONS TECHNOLOGIES

MAY 2013 • 300PP • 978-1-118-13053-7 • PR • €46.95

**Digital
Terrestrial
Television
Broadcasting**

Scale Issues in Remote Sensing

JIANFENG WENG

McGill University, Canada

- ❖ Examines fundamental theories with up-to-date scaling techniques
- ❖ Features the works of an editor who is a renowned authority in the Geographic Information Science community, and a team of internationally known contributors

READERSHIP: Geographic information scientists, cartographer, remote sensing imaging analysts, and postgraduate students in geosciences, GI sciences and geographic image analysis

APR 2013 • 380PP • 978-1-118-30504-1 • CL • €80.50

**Scale Issues
in Remote
Sensing**

Handbook of Coal-Fired Power Generation

JAMES G. SPEIGHT

CD-WINC, USA

- ❖ Details the manner in which coal properties can influence electricity production
- ❖ Describes the relevant clean coal technologies in an understandable manner and the role of coal in energy security scenarios
- ❖ Presents a realistic overview of the future of electricity generation from coal

READERSHIP: Engineers, managers, and technicians working in the coal industry

SERIES: POWER GENERATION

APR 2013 • 500PP • 978-1-118-20846-5 • CL • €130.00

**Handbook of
Coal-Fired
Power
Generation**

Wafer Manufacturing: Shaping of Single Crystal Silicon Wafers

Wafer Manufacturing: Shaping of Single Crystal Silicon Wafers

IMIN CAO & MILIND BHAGAVAT

SUNY at Stony Brook, USA

- ❖ Highlights the fundamentals of wafer manufacturing and recent research advances
- ❖ Presents information on the challenges of new uses of wafers such as SOI, Strained Silicon, MEMS and MOEMS
- ❖ Includes information on the wafering of various crystal ingots such as III-V and II-VI compounds, silicon carbide, and lithium niobates

READERSHIP: Engineers and industrial practitioners in manufacturing and semiconductor industries involved in wafer production, postgraduate students, research institutes and laboratories, and members of relevant professional organisations

JUN 2013 • 336PP • 978-0-470-06121-3 • CL • €100.00

Grid Integration of Electric Vehicles in Open Electricity Markets

Grid Integration of Electric Vehicles in Open Electricity Markets

QIUWEI WU

Technical University of Denmark, Denmark

- ❖ Explores the field of electric vehicles (EVs), including the impact of EV charging and discharging on transmission and distribution networks, optimal EV charging management, and EV battery technology and modelling
- ❖ Covers EV integration alongside electricity market design for EV integration and the interaction between EVs with different electricity markets
- ❖ Presents the latest research in EV integration technology and results of the 2018live'[J6] projects
- ❖ Provides up-to-date case studies and examples to help readers to carry out similar studies

READERSHIP: Power engineers, grid operators, researchers in EVs and power systems, policy makers, research professors, postgraduate and undergraduate students, distribution and transmission companies, and EV manufacturers and market professionals

MAY 2013 • 300PP • 978-1-118-44607-2 • CL • €78.50



AC Electric Motors Control

Advanced Design Techniques and Applications

FOUAD GIRI

Université de Caen Basse-Normandie, France

- ❖ Acts as a single source reference for all the knowledge needed to understand how an electric machine works and how it can be “observed” and “controlled” by means of modern multivariable and nonlinear control techniques
- ❖ Focuses on advanced nonlinear control design, which is needed in this important field of control systems, where robust and accurate speed and torque control devices are needed
- ❖ Presents design techniques leading to a robust output using modern nonlinear and adaptive control techniques
- ❖ Includes contributions from top researchers in the field

READERSHIP: AC motor system drive designers, R&D engineers in electrical engineering in electrical motor drive control, senior undergraduates, postgraduates and researchers both in academia and working in the field of advanced control of AC motor drives

MAY 2013 • 500PP • 978-1-118-33152-1 • CL • €88.00

Flexible and Printed Electronics Explained

Flexible and Printed Electronics Explained

Technology and Commercial Applications

JUTTA E. M. RASP

FPExperts, Germany

- ❖ Presents a comprehensive overview of flexible and printed electronics, explaining the most up-to-date advances, predictions for the future of the technology, and its commercial applications
- ❖ Serves as the only book to date that provides the business aspects of the topic alongside an explanation of the technology
- ❖ Describes the history of these electronics as well as recent progresses made over the past five years
- ❖ Provides an explanation of the major physics, chemistry and electronics behind each technical solution, and applications that cover areas such as displays, sensors and smart fabrics, and security

READERSHIP: Engineers working in flexible electronics and semiconductor and electronics industry, portfolio managers and marketing and sales executives, users and evaluators of the technology; and lecturers, postgraduates and final year undergraduates in electronics

APR 2013 • 448PP • 978-1-118-45184-7 • CL • €72.50

Stochastic Modeling and Analysis of Telecoms Networks

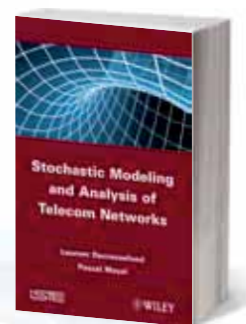
L. DECREUSEFOND

Télécom ParisTech, France

- ❖ Presents a wide list of results on stability, performances and comparison of systems
- ❖ Addresses the stochastic modelling of telecommunication networks by introducing the main mathematical tools of Markov processes, real and spatial point processes, and stochastic recursions
- ❖ Proposes a comprehensive mathematical construction of the foundations of stochastic network theory
- ❖ Provides a complete presentation of stochastic recursions, from an ergodic theoretical perspective to spatial point processes

SERIES: ISTE

MAR 2012 • 978-1-848-21238-1 • CL • €152.00



Crowdsourcing for Speech Processing

Applications to Data Collection, Transcription and Assessment

MAXINE ESKENAZI, GINA-ANNE LEVOW, HELEN MENG, GABRIEL PARENT &

DAVID SUENDERMANN

Carnegie Mellon University, USA; University of Washington, USA; The Chinese University of Hong Kong, China; Amazon.com, USA; Baden-Wuerttemberg Cooperative State University, Germany

- ❖ Provides an insightful and practical introduction to crowdsourcing as a means of rapidly processing speech data
- ❖ Addresses important aspects of this new technique that should be mastered before attempting a crowdsourcing application
- ❖ Offers speech researchers the hope that they can spend less time dealing with the data gathering/annotation bottleneck, allowing them to focus on the scientific issues

READERSHIP: Researchers and practitioners in speech research groups involved in speech processing, sociolinguistics and other areas of linguistics where speech data is to be gathered and transcribed; and senior undergraduates and postgraduates

APR 2013 • 368PP • 978-1-118-35869-6 • CL • €75.50



Sound Visualization and Manipulation

YANG-HANN KIM & JUNG-WOO CHOI

Both of Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

- ❖ Serves as the first book to combine both the visualisation and manipulation of sound technologies in one comprehensive volume
- ❖ Presents the basic concepts using simple one-dimensional cases and extends the concept to three-dimensional cases, for easier understanding of the fundamental concepts with minimal mathematics
- ❖ Provides a solid understanding of associated physics as well as mathematical concepts behind the technologies, and addresses diffraction problems by using Kirchhoff-Helmholtz integral equation
- ❖ Uses extensive examples demonstrating the benefits and drawbacks of various applications, including beamforming and acoustic holography

READERSHIP: Postgraduate and senior undergraduate students, acoustic engineers, audio and noise control system developers, and environmental engineers

JUN 2013 • 400PP • 978-1-118-36847-3 • CL • €90.00



Propagation Channel Characterization, Parameter Estimation, and Modeling for Wireless Communications

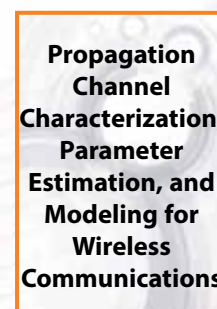
X. YIN

Tongji University, China

- ❖ Presents technical explanations that are illustrated with examples
- ❖ Discusses results applied to 4G communication systems and other emerging communication systems, such as relay, CoMP, and vehicle-to-vehicle rapid time-variant channels
- ❖ Serves as a comprehensive tutorial for students and a complete reference for engineers in industry
- ❖ Includes programme downloads for readers and solution manual for instructors in the companion website

READERSHIP: Postgraduate students and researchers and engineers involved in wireless communications equipment R&D

MAY 2013 • 350PP • 978-1-118-18823-1 • CL • €95.00





Initial Synchronisation of MIMO Transceivers

Initial Synchronisation of MIMO Transceivers

CDMA, MC-CDMA, OFDM, UWB and Cooperative Systems

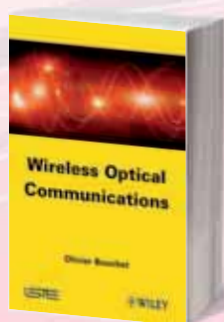
LAJOS HANZO, S-H WON & L. L. YANG

- ❖ Investigates the fundamental characteristics of code acquisition schemes using co-located MIMO
- ❖ Serves as the first book that focuses on MIMO-aided transceiver synchronisation issues
- ❖ Provides comprehensive coverage of code acquisition schemes

READERSHIP: Researchers in telecommunication, mobile and wireless communication, and engineers in telecommunication antennas, transceiver design and radar

SERIES: IEEE SERIES ON DIGITAL & MOBILE COMMUNICATION

MAY 2013 • 500PP • 978-1-118-07206-6 • CL • €90.00



Wireless Optical Telecommunications

OLIVIER BOUCHET

France Telecom Research and Development, France

- ❖ Discusses free space optics that are already used for the exchange of current information and its many benefits
- ❖ Focuses on wireless optical communications and the implementation of real complete systems
- ❖ Provides a wide range of information on wireless optical communication and useful concepts that relate to propagation, optics and photometry, and safety

SERIES: ISTE

APR 2012 • 320PP • 978-1-848-21316-6 • CL • €125.00



802.11ac Wireless Computer Networking Standard

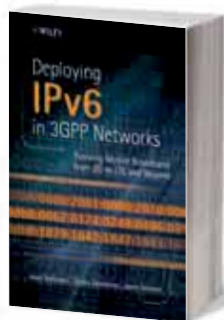
802.11ac Wireless Computer Networking Standard

JOONSUK KIM & MATTHEW FISCHER

- ❖ Provides a brief history on 802.11ac, as well as its purpose and goal
- ❖ Covers the main features of physical layer specifications in detail
- ❖ Features the works of authors who are leading experts in the field

READERSHIP: Wireless LAN and wireless computer network engineers and architects, wireless device designers, network engineers and network risk managers

JUN 2013 • 300PP • 978-1-118-50526-7 • PR • €46.50



Deploying IPv6 in 3GPP Networks

Evolving Mobile Broadband from 2G to LTE and Beyond

T. SAVOLAINEN

Nokia Research Center, Finland

- ❖ Serves as a practical guide that enables mobile operators to deploy IPv6 with confidence, written by highly respected authors in the IPv6/mobile world
- ❖ Provides an explanation of the technical background for some not-so-obvious design choices, what to concentrate on, and what transition strategies should be used by vendors and operators
- ❖ Offers an overview of the technology, including IPv4-embedded and mapped addresses, translation, encapsulation, mesh vs. hub-spoke, and scalability concerns
- ❖ Describes the 3GPP network architectures, protocol architectures, protocol headers, signalling sequences, and command line script snippets

READERSHIP: Professionals working on transitioning 3GPP networks to IPv6, IP experts moving from fixed networking background to mobile networks, and university students studying IP and IPv6 works on 3GPP networks

SERIES: NSN/NOKIA SERIES

MAY 2013 • 384PP • 978-1-118-39829-6 • CL • €62.50



Pervasive Information Management Systems

VIJAY KUMAR

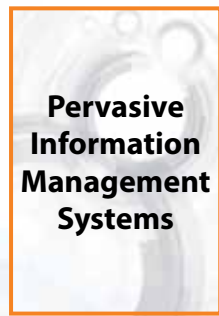
University of Missouri at Kansas City, USA

- ❖ Fully revised and updated second edition of Mobile Database Systems, 2006
- ❖ Features comprehensive coverage on Mobile Database Systems (MDS) management
- ❖ Includes case studies relating to cell phones, Bluetooth technology, and automobile navigation systems, including exercises and examples at the end of each chapter
- ❖ Offers discussions on sensor technology, stream data processing, mobile database security and contextual processing at the end of each chapter

READERSHIP: Researchers, teachers and postgraduate students at educational and research institutions and companies, who will use the book in courses on mobile computing

JUN 2013 • 400PP • 978-1-118-02424-9 • CL • €63.50

REPLACES ISBN: 978-0-471-46792-2



Pervasive Information Management Systems

Practical Implementation of Error Correction Codes

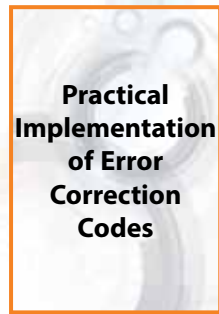
REED-MULLER & ALEXANDER KRAVTCHENKO

Both of Ubiso GmbH, Germany

- ❖ Covers a range of commonly used block codes, from the well-established Reed-Muller, BCH and Reed-Solomon codes, to the latest Low Density Parity Check codes
- ❖ Begins with algebraic basics and simple implementation examples and develops through to advanced LDPC codes
- ❖ Shows the hardware and software implementations of both traditional and modern codes
- ❖ Includes the implementation of probabilistic decoding mechanisms used in DVB-xx, WiMax (IEEE 802.16e), LAN (IEEE 802.11n), Wave WPAN (IEEE 802.15.3c) and IEEE 802.3an (10GBase-T) Ethernet

READERSHIP: Engineers who implements error correction codes in their applications, system, DSP and algorithms engineers, academics and postgraduate students in the mobile, wireless and network communications, medical, and bioinformatics fields

APR 2013 • 416PP • 978-1-118-34172-8 • CL • €68.95



Practical Implementation of Error Correction Codes



Wireless Networking

A Look at the Past, Present, and Future of the Wireless Internet

JACK L. BURBANK, JULIA ANDRUSENKO, JARED S. EVERETT & WILLIAM T.M. KASCH

- ❖ Focuses on real life networking challenges and solutions
- ❖ Features the written works of wireless network instructors at The Johns Hopkins University
- ❖ Serves as a 'one-stop shop' reference covering all existing wireless technologies with a global wired networking prospective

READERSHIP: Practical engineers in the field of wireless networking, and students

MAY 2013 • 640PP • 978-1-118-12238-9 • CL • €90.00



Wireless Networking

Network Coding

KHALDOUN AL AGHA

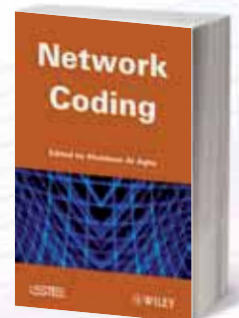
University Paris-South, France

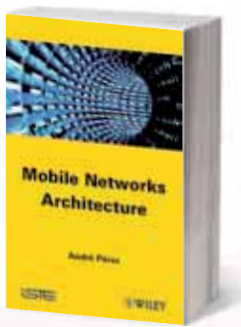
- ❖ Explains network coding and provides a set of studies showing the improvements in security, capacity and performance of fixed and mobile networks
- ❖ Discusses the relatively new area of research in network coding, and how it has evolved from the theoretical level to become a tool used to optimise the performance of communication networks i.e. wired, cellular and ad hoc
- ❖ Presents network coding as a tool to enhance the existing protocols and algorithms in a network or for applications such as peer-to-peer and TCP

READERSHIP: University students studying coding, and researchers and practitioners in sectors of all industries where digital communication is used

SERIES: ISTE

APR 2012 • 304PP • 978-1-848-21353-1 • CL • €109.00





Mobile Networks Architecture

ANDRE PEREZ

- ❖ Explains the evolution of mobile architecture
- ❖ Summarises the various relevant packet systems
- ❖ Describes how the increase in the rate of data transmission between networks and mobiles have caused an evolution in technology

READERSHIP: Practitioners and students in engineering and materials science, electrical and electronics engineering, communication technology and networks

SERIES: ISTE

JAN 2012 • 978-1-848-21333-3 • CL • €109.00



Fundamentals of Cognitive Radio

SIMON HAYKIN

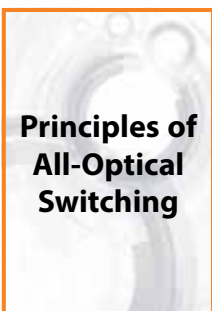
McMaster University, Canada

- ❖ Features the use of cognition to enhance wireless communications systems
- ❖ Presents the fact that cognitive computers are able to match the human brain in tasks of object detection, tracking, and control
- ❖ Suggests that cognition can be applied to alleviate problems with traditional energy systems

READERSHIP: Postgraduate students taking courses on cognitive radio networks, communication engineers, telecommunication professionals, design engineers and system

SERIES: WILEY SERIES ON COGNITIVE DYNAMIC SYSTEMS

JUN 2013 • 450PP • 978-1-118-30296-5 • CL • €96.95



Principles of All-Optical Switching

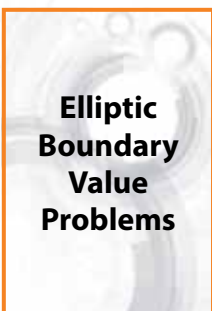
CHUN FEI LI

Harbin Institute of Technology, China

- ❖ Summarises all-optical switching theory and technology, also detailing the most up-to-date research on the topic
- ❖ Analyses designs for all-optical switches and discusses the technological platforms for realising these devices
- ❖ Reviews the main relations governing the nonlinear effects involved, and the alternatives to building optical switches
- ❖ Summarises the physical concepts and fundamental principles of optical switching, such as nonlinear interferometers, all-optical bistable devices, optical limiters and nanophotonics

READERSHIP: Researchers, scientists, engineers, technical and R&D staff, as well as postgraduate and senior undergraduate students in the fields of optical technologies, optoelectronic devices, integrated photonic circuits, and optical systems

MAY 2013 • 350PP • 978-1-118-18838-5 • CL • €100.00



Elliptic Boundary Value Problems

Basic Theory and Approximation

IVAR STAKGOLD & MICHAEL J. HOLST

University of Delaware, USA; University of California, San Diego, USA

- ❖ Features coverage on approximation methods and theory, including best linear approximation in linear spaces, finite element and wavelet methods for linear equations, and methods for nonlinear equations
- ❖ Provides examples and applications from a wide variety of applications in engineering and physical sciences, as well as an up-to-date bibliography
- ❖ Includes discussions on main topics such as nonlinear problems, partial differential equations, operator theory, Hilbert and Banach spaces, and the theory of distributions
- ❖ Outlines careful derivations of equations that arise in applications, including the treatment of variational methods and perturbation theory

READERSHIP: Senior undergraduate and postgraduate students in applied analysis and boundary value problems in partial differential equations, and mathematicians, physicists, engineers, and scientists who use applied mathematics

SERIES: PURE AND APPLIED MATHEMATICS: A WILEY SERIES OF TEXTS, MONOGRAPHS AND TRACTS

MAY 2013 • 480PP • 978-1-118-13526-6 • CL • €76.95



An Introduction to Optimization

4th Edition

EDWIN K. P. CHONG & STANISLAW H. ZAK

Colorado State University, USA; Purdue University, USA

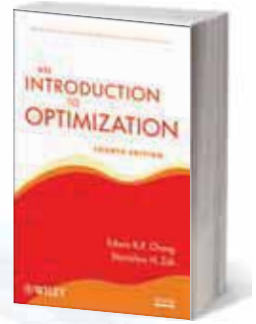
- ❖ Features a new chapter on integer programming and expanded coverage on one-dimensional methods and linear matrix inequalities
- ❖ Provides an up-to-date, accessible introduction to optimisation theory and methods with emphasis on engineering design and additional exercises in almost every chapter
- ❖ Includes improvements to the organisation, discussion and reviews of basic definitions, notations, and relations from linear algebra to geometry, and calculus and unconstrained optimisation problems
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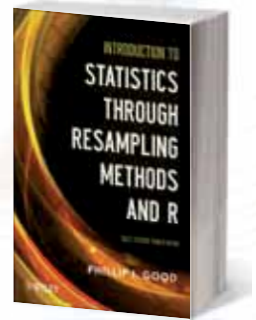
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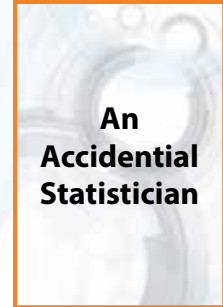
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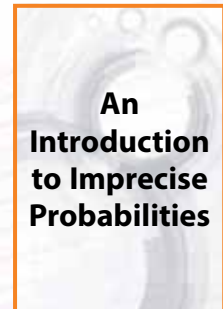
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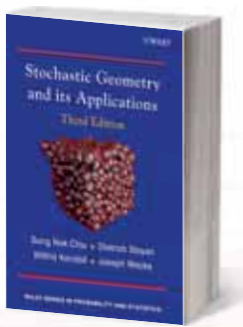
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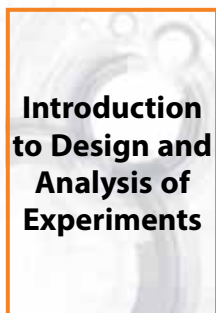
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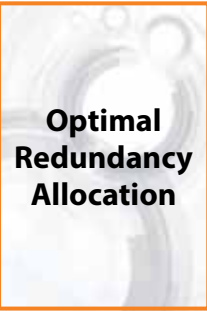
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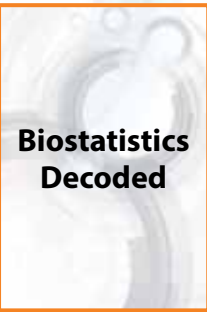


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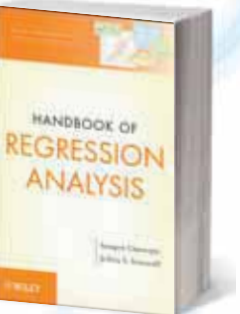
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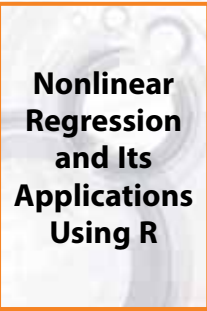
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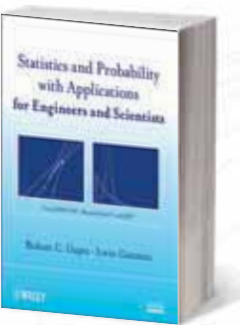
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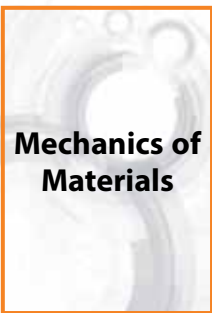
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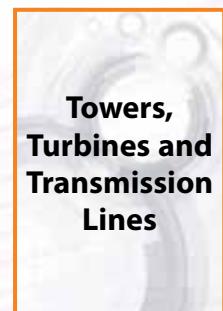
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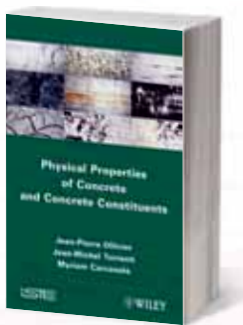
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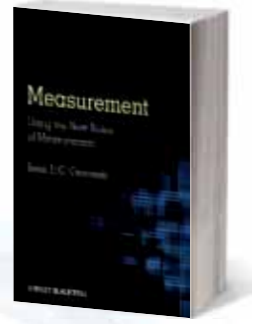
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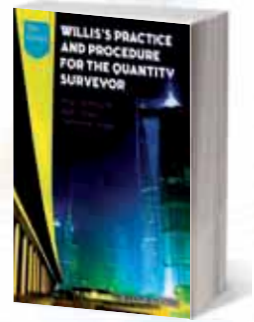
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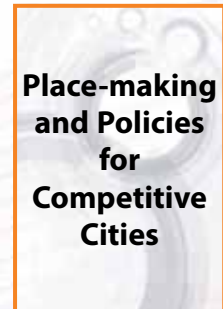
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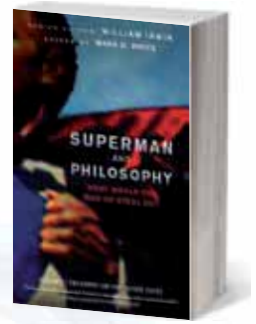
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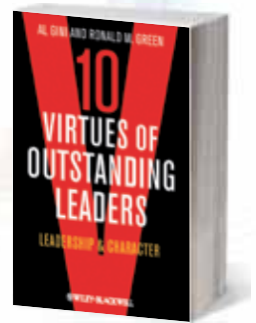
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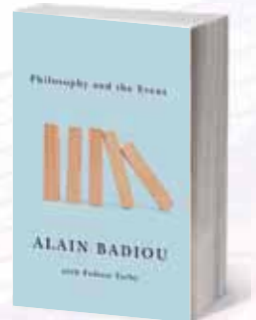
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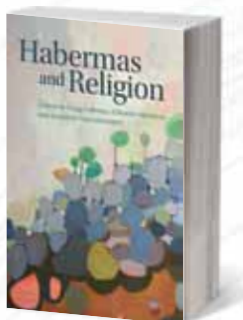
New School For Social Research, New York, USA

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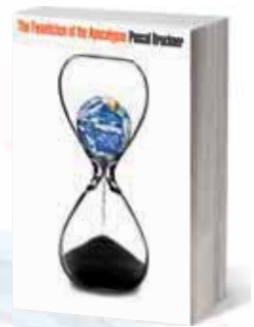
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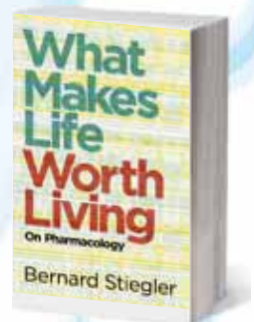
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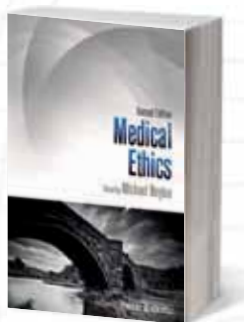
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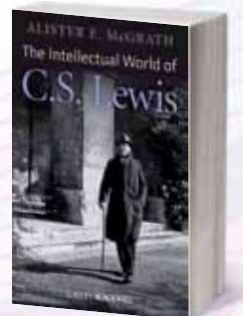
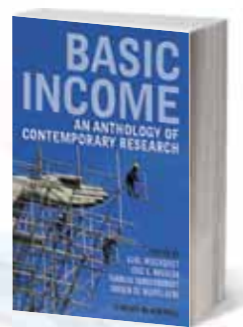
The Intellectual World of C. S. Lewis

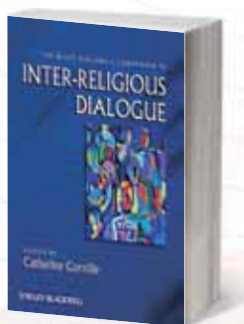
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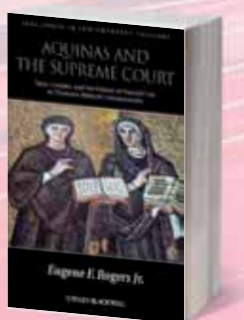
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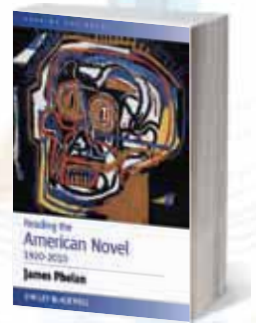
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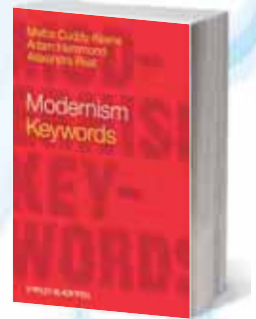
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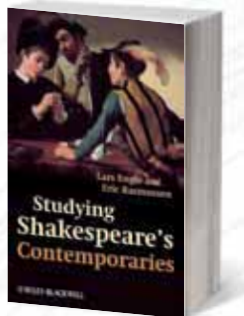
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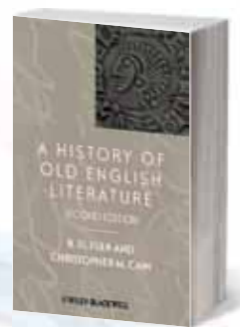
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- ❖ Revised with extensive reference to the latest scholarship that has evolved over the last decade
- ❖ Provides exceptionally broad-ranging coverage, including Anglo-Latin literature and other marginal texts
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An Annotated Syntax Reader

Lasting Insights and Questions

EDITED BY RICHARD S. KAYNE, THOMAS LEU & RAFFAELLA ZANUTTINI

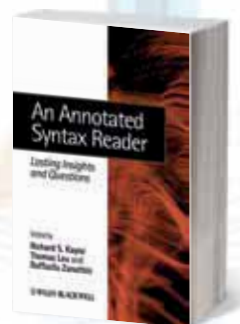
New York University, USA; Université du Québec à Montréal, Canada; Yale University, USA

- ❖ Brings together a collection of seminal articles in syntax, published over the last 40 years, that demonstrate the empirical and theoretical foundations of current syntactic theory
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University of California, Los Angeles, USA; New York University, USA

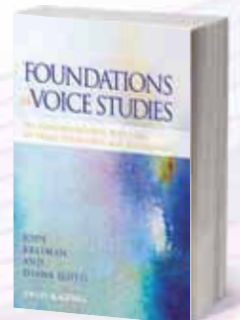
- ❖ Provides a comprehensive introduction to the multifaceted role that voice quality plays, illustrating why listeners hear what they do and how they reach conclusions based on voice quality
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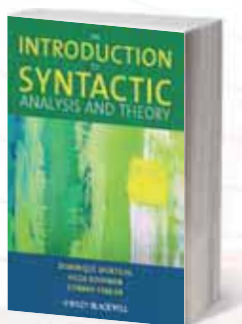
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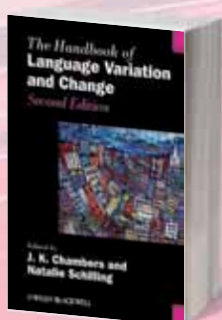
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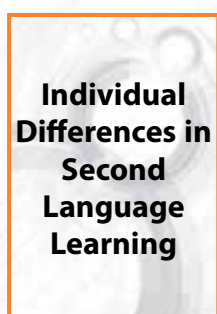
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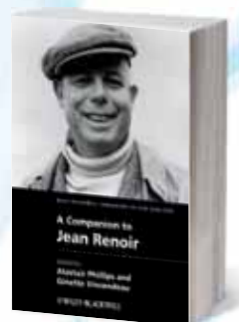
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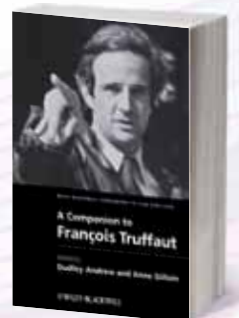
A Companion to Francois Truffaut

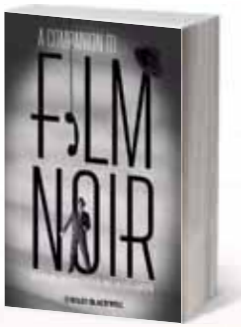
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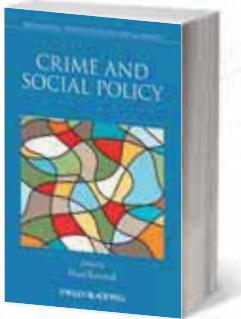
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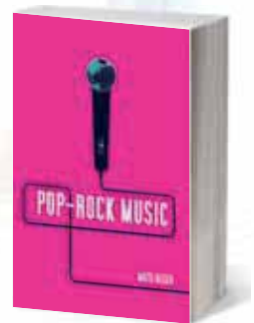
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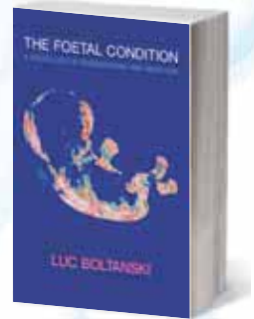
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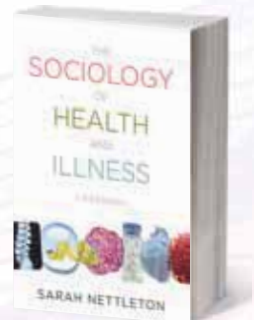
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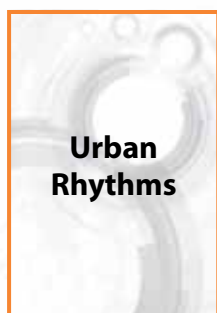
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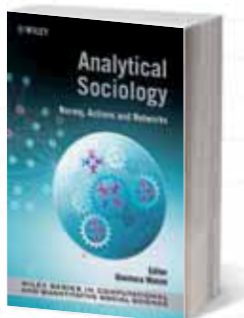
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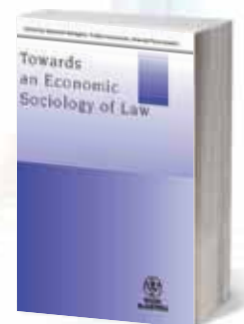
EDITED BY DIAMOND ASHIAGBOR, PRABHA KOTISWARAN & AMANDA PERRY-KESSARIS

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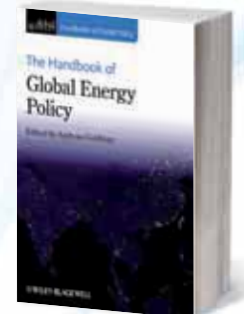
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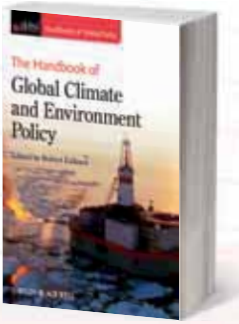
University of Sydney, Australia

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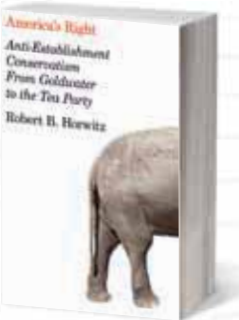
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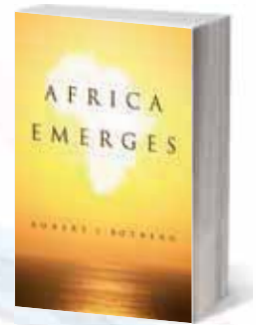
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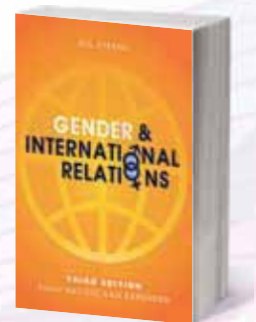
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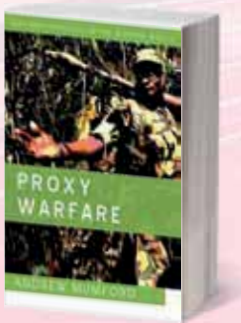
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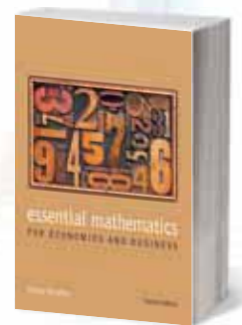
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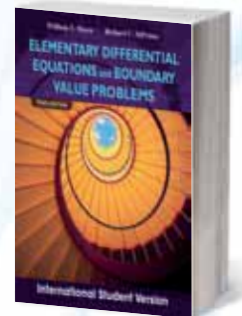
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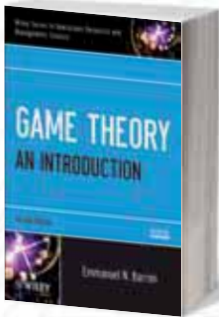
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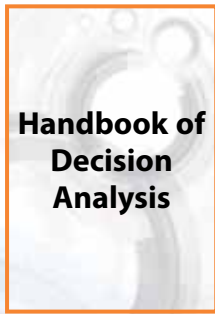
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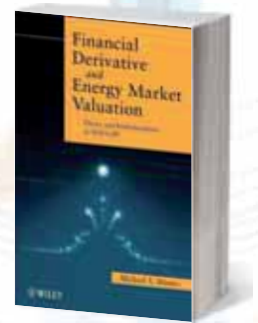
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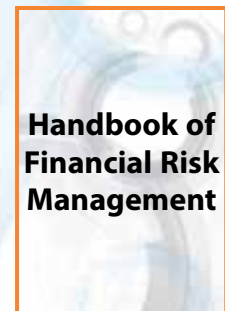
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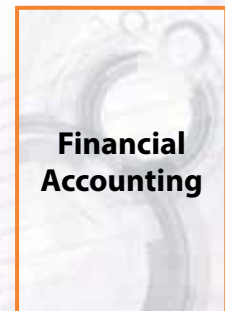
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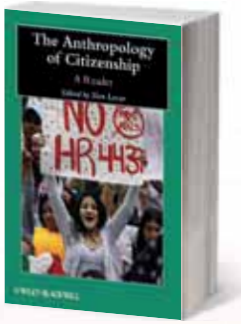
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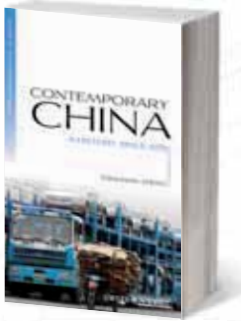
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A History since 1978

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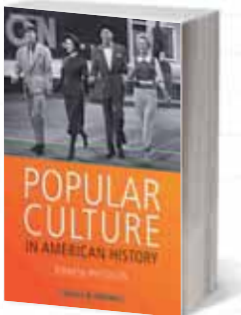
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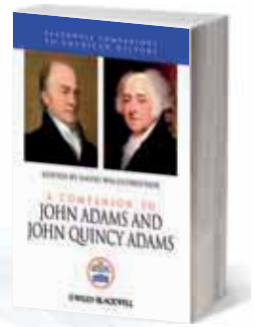
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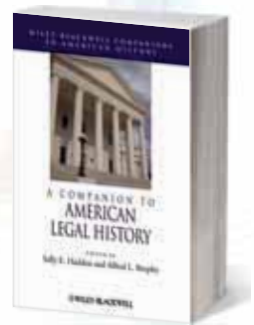
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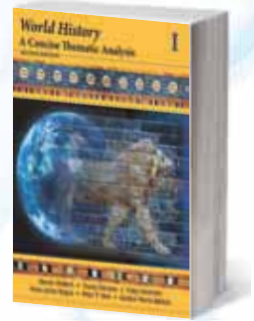
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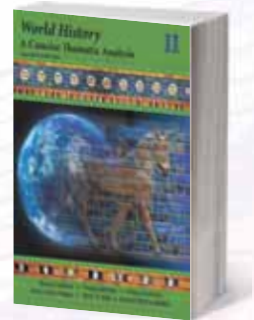
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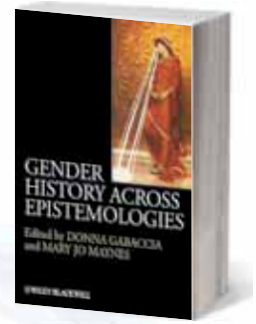
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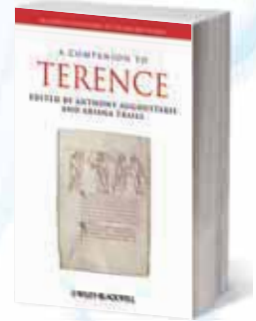
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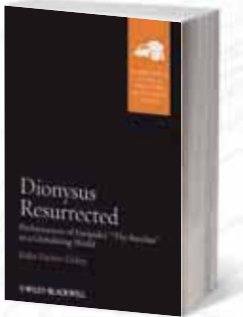
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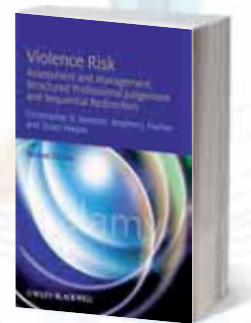
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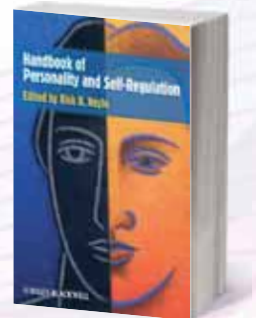
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SPECIAL PRICE





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- ❖ Offers concrete suggestions for how psychologists can effectively respond to the challenges of globalization through research, teaching, and action

READERSHIP: Undergraduate and postgraduate students in psychology, sociology, anthropology, economics, international relations, global studies, public health, and political science

SERIES: JOURNAL OF SOCIAL ISSUES (JOSI)

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Methods and Design

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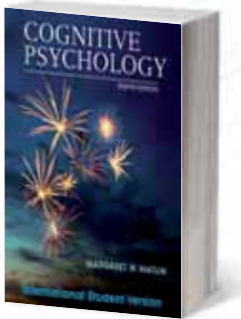
Western Carolina University, USA and Towson University, USA

- ❖ Research examples range from contemporary research to classic studies in order to illustrate various methodological points and enhance critical thinking
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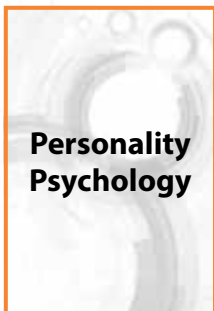
MARGARET W. MATLIN

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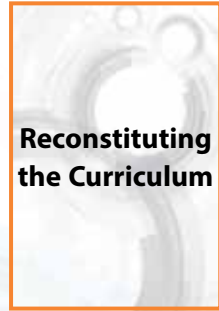
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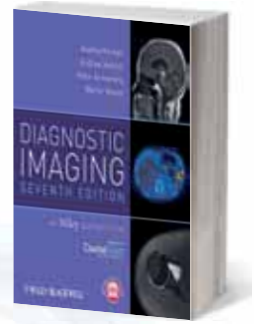
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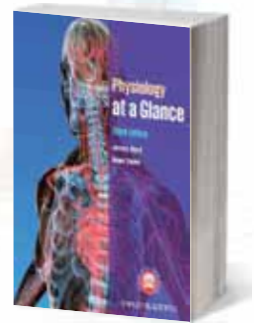
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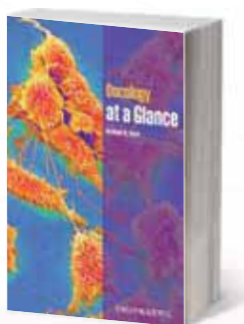
READERSHIP: Undergraduate medical students, and junior doctors

SERIES: AT A GLANCE

APR 2013 • 264PP • 978-0-470-67131-3 • PR • €27.99

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SERIES: AT A GLANCE

APR 2013 • 136PP • 978-1-118-36969-2 • PR • €24.99



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Lecture Notes: Clinical Pharmacology and Therapeutics

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Glasgow Royal Infirmary, Glasgow, UK; University of Glasgow, Glasgow, UK

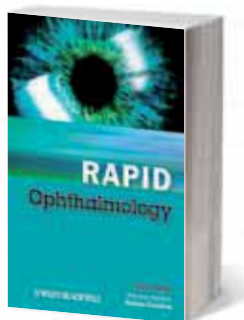
- ❖ A one-stop resource for the application of pharmacological knowledge to real-life clinical situations – ideal for supporting pharmacology and prescribing within the clinical years and as a junior doctor
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SERIES: LECTURE NOTES

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- ❖ Written by students for students and so highly relevant for medical students and junior doctors

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4th Edition

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A Guide for Students in Medicine and The Health Sciences

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How to Assess Students and Trainees in Medicine and Health

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READERSHIP: Health sciences educators and clinicians who must assess and mentor students and trainees

SERIES: HOW TO

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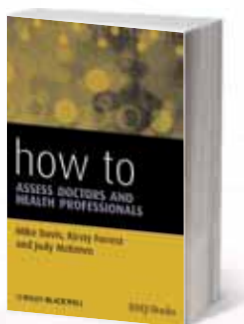
READERSHIP: Foundation programme trainees, specialist registrars, General Practitioner trainees and junior doctors, medical students, nurses, healthcare professionals

SERIES: HOW TO

MAR 2013 • 136PP • 978-1-118-39383-3 • PR • €24.99

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SERIES: HOW TO

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READERSHIP: General practitioners, practice nurses, cancer care nurses, surgeons and oncologists in training, medical students

SERIES: ABC

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A Practical Guide

2nd Edition

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- ❖ Written by a leader in the field of CPD for Allied Health Professionals
- ❖ Revised and updated in light of the very latest regulatory requirements
- ❖ Includes strategies that individuals can adopt irrespective of managerial support

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The Implementation of Change in Clinical Practice

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- ❖ Provides a model for health professionals, policy makers and researchers to assess new techniques and select and implement change in their own organizations
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READERSHIP: Health care providers, staff involved in quality assessment, policy makers and researchers; postgraduate students of health policy and health management

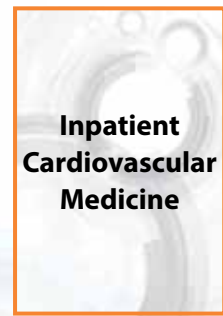
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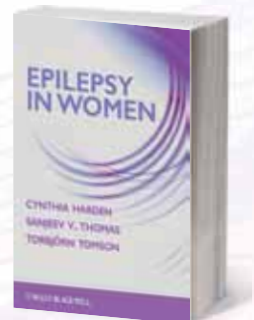
Epilepsy in Women

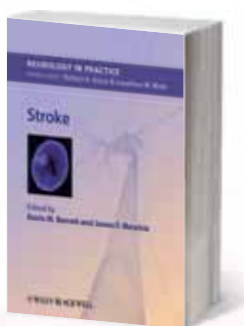
CYNTHIA HARDEN, SANJEEV V. THOMAS & TORBJORN TOMSON

Comprehensive Epilepsy Care Institute, North Shore, USA – Institute for Medical Sciences and Technology, Trivandrum, India - Department of Clinical Neuroscience, Karolinska Institutet

- ❖ Practical clinical approach: comprehensive guide on the diverse biological, clinical and psychosocial problems of women with epilepsy and their effective management
- ❖ Covers all ages of women – from the onset of menstruation through reproductive years to post menopause
- ❖ Multinational author team with international, cross cultural approach

READERSHIP: Primary: Neurologists, epileptologists, obstetrician-gynecologists and general practitioners
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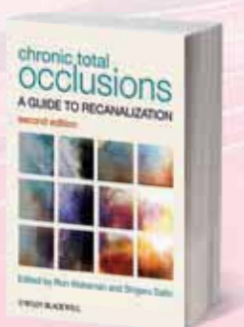
Stroke

KEVIN M. BARRETT & JAMES F. MESCHIA

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- ❖ Clinical 'in the office'/'at the bedside' guide following the patient journey
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- ❖ Caution' warning boxes – hints on avoiding problems, perhaps via contraindications

READERSHIP: Neurologists and cardiologists
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A guide to recanalization

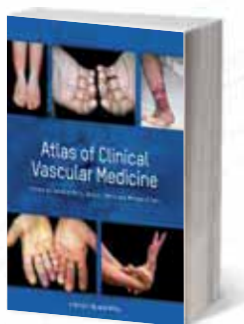
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- ❖ Covers all aspects of CTO treatment and management, from indications to wires and devices to expert tips/tricks for key procedures to a final section of challenging patient cases
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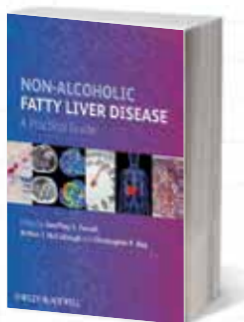


Atlas of Clinical Vascular Medicine

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A Practical Guide

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- ❖ Updated information on this increasingly prevalent disorder
- ❖ Editors from leading institutions
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READERSHIP: Practicing hepatologists and clinicians interested in this disorder
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Pituitary Disorders

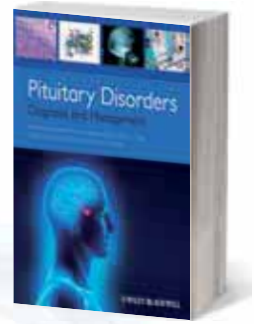
Diagnosis and Management

EDWARD LAWS, SHEREEN EZZAT, SYLVIA ASA & LINDA RIO

Brigham & Women's Hospital, MA, USA; Princess Margaret Hospital, Canada; University of Toronto, Canada

- ❖ Highly clinical and practical resource for all various pituitary disorders
- ❖ Guidance on initial investigations through to diagnosis and clinical management for endocrinologists and endocrinology residents as well primary care physicians who initially see patients with such disorders
- ❖ Includes guidance on complications, psychological and psychosocial effects and long term management
- ❖ Editorial team is represented by key names in pituitary and clinical endocrinology with contributions from some of the world's top physicians in the field

READERSHIP: Primary: consultant/specialist endocrinologists and residents/fellows in training and endocrinology nurses. Secondary: general physicians
APR 2013 • 392PP • 978-0-470-67201-3 • PR • €85.00



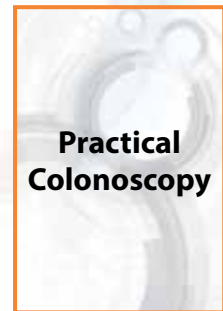
Practical Colonoscopy

JEROME D. WAYE, JAMES AISENBERG & PETER H. RUBIN

Mount Sinai Hospital, New York, USA; Mount Sinai Medical Center, New York, USA; Mount Sinai Medical Center, New York, USA

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MAY 2013 • 224PP • 978-0-470-67058-3 • CL • €54.99



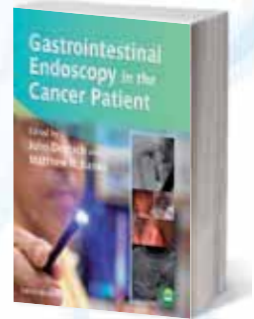
Gastrointestinal Endoscopy in the Cancer Patient

JOHN C. DEUTSCH & MATTHEW R. BANKS

Essential Health Systems, Duluth, MN, USA; University College London Hospitals NHS Trust, London, UK

- ❖ Comprehensive in its coverage of GI cancer from both the gastroenterologists and the oncologists perspective
- ❖ Consistent approach to the structure of the contents list, each section following a clear pattern
- ❖ Includes first-class videos of endoscopy being performed
- ❖ Full colour throughout with high-quality illustrations for clarity

JUN 2013 • 436PP • 978-0-470-67246-4 • CL • €130.00



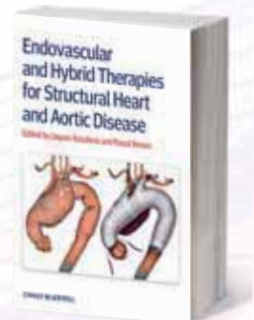
Endovascular and Hybrid Therapies for Structural Heart and Aortic Disease

JACQUES KPODONU & RAOUL BONAN

Northwestern Memorial Hospital

- ❖ A comprehensive, highly visual and practical guide with clear guidance to each procedure, possible complications, expert tips and tricks, and follow up
- ❖ Covers both well-tested procedures and leading edge approaches
- ❖ Includes expert guidance on the latest endovascular and hybrid techniques for the treatment of structural heart disease
- ❖ Provides a review of the pertinent anatomy, information on patient evaluation, relevant imaging modalities, available devices

APR 2013 • 321PP • 978-0-470-65639-6 • CL • €120.00





Interactive Haematology Imagebank DVD

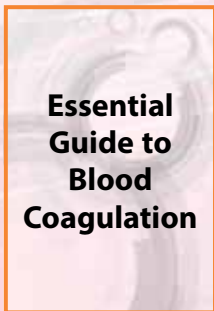
BARBARA J. BAIN

St. Mary's Hospital, London, UK

- ❖ Fully comprehensive to the visual aspects of haematology: morphology of blood films, bone marrow aspirates and trephine biopsies, cytogenetics, immunophenotyping, haemoglobinopathy investigations, blood transfusion, haemostasis and thrombosis, clinical haematology and treatment complications
- ❖ An invaluable advanced learning tool with a unique visual reference on all aspects of this speciality
- ❖ Contains over 2000 high resolution digital images with detailed captions
- ❖ Includes an interactive self-assessment with illustrated and self-evaluation questions
- ❖ Incorporates a 2000 word glossary, with separate detailed listings of oncogenes and 200 CD numbers

APR 2013 • 4PP • 978-0-470-67049-1 • SOFTWARE* • €225.00

REPLACES ISBN: 978-1-444-34996-2



Essential Guide to Blood Coagulation

2nd Edition

MARGARETA BLOMBÄCK & JOVAN ANTOVIC

Department of Molecular Medicine and Surgery, Coagulation Research, Karolinska Institutet; Clinical Chemistry, Karolinska University Hospital, Stockholm, Sweden

- ❖ A practical guide to blood coagulation, updated with new information on anticoagulant drugs and the latest treatment strategies available for patients
- ❖ Includes treatment strategies for key bleeding disorders and diseases
- ❖ Incorporates the latest antithrombotic treatment guidelines and newest anticoagulant drugs
- ❖ Highlights simple tests that can be used in the laboratory to aid diagnosis
- ❖ Special patients (HIV-infected, uraemic) and complications (the transplant and paediatric patient) included

APR 2013 • 208PP • 978-1-118-28879-5 • PR • €44.99



Quality in Laboratory Hemostasis and Thrombosis

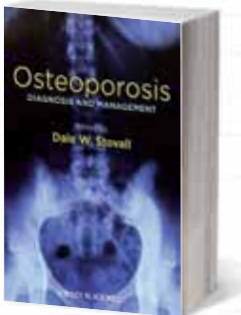
2nd Edition

STEVE KITCHEN, JOHN D. OLSON & F. ERIC PRESTON

Royal Hallamshire Hospital, Sheffield, UK; University of Texas Health Science Center, San Antonio, Texas, USA; University of Sheffield, Sheffield, UK

- ❖ Covers all aspects of quality control and haemostasis to help implement a quality program in the haemostasis laboratory
- ❖ Includes molecular genetic testing discussed in respect to haemophilia, von Willebrand's disease and familial thrombophilia
- ❖ Details a quality program that, when put into place, will help to improve standards in testing. All of the authors are internationally recognised for their work in hemostasis and thrombosis
- ❖ New chapter devoted to quality control in platelet function testing and fibrinolysis testing

APR 2013 • 302PP • 978-0-470-67119-1 • CL • €79.99



Osteoporosis

Diagnosis and Management

DALE STOVALL

Director of the OB/GYN Residency Program Riverside Medical Group, VA

- ❖ First book on contemporary approaches to osteoporosis
- ❖ Fuses science and clinical content
- ❖ Aimed at 'generalist specialists', eg gynecologists, rather than specialists in osteoporosis
- ❖ Looks at early identification and prevention as well as treatment
- ❖ Includes coverage of osteoporosis in men as well as women

READERSHIP: Primary: gynecologists / Secondary: endocrinologists, urologists, rheumatologists, family physicians

JUL 2013 • 256PP • 978-1-119-96891-7 • CL • €79.99

Practical Pediatric and Adolescent Gynecology

PAULA J. ADAMS HILLARD

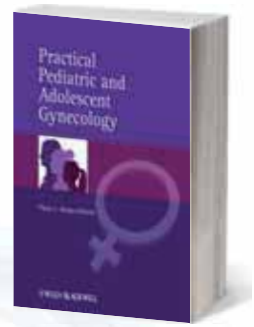
M.D., Professor of Obstetrics and Gynecology at Stanford University School of Medicine and Chief of the Division of Gynecologic Specialties

- ❖ Clinical 'in the office'/'at the bedside' guide
- ❖ Algorithms and guidelines
- ❖ 'Tips and Tricks' boxes – hints on improving outcomes perhaps via practical technique, patient questioning etc.
- ❖ 'Caution' warning boxes – hints on avoiding problems, perhaps via contraindications
- ❖ 'Science Revisited' – quick reminder of the basic science principles necessary for understanding

READERSHIP: Practical approach primarily for office-based gynecologists and trainee gynecologists. Large potential secondary market with pediatricians, general and family practitioners

SERIES: GIP - GYNAECOLOGY IN PRACTICE

APR 2013 • 408PP • 978-0-470-67387-4 • CL • €77.99



Fat Removal

Body Contouring and Cellulite Control

MATTHEW AVRAM MD, JD

Assistant Professor of Dermatology at Harvard Medical School

- ❖ Offers a practical approaches to implementing fast removal
- ❖ Includes both invasive and non-invasive techniques
- ❖ Written by one of the world's leading dermatologists

READERSHIP: Cosmetic dermatologists, plastic surgeons, aesthetic medical practitioners

JUL 2013 • 252PP • 978-1-444-33428-9 • CL • €89.99



Botulinum Toxins in Dermatology

Cosmetic and Clinical Applications

JOEL L. COHEN

Director of AboutSkin Dermatology and DermSurgery in Englewood and Lone Tree, Colorado, USA

- ❖ Best practice on the contemporary use of botulinum toxin in combination with other therapies
- ❖ Includes a DVD to illustrate how toxins should be used for best results for patients in a range of situations
- ❖ Practical and comprehensive - toxins, applications and techniques

READERSHIP: Dermatologists and trainee dermatologists

JUL 2013 • 400PP • 978-1-444-33825-6 • CL • €124.99



Nutrition and Development

Short and Long-Term Consequences for Health

BNF (BRITISH NUTRITION FOUNDATION)

British Nutrition Foundation, London, UK

- ❖ New title in the British Nutrition Foundation's authoritative Task Force series
- ❖ Offers a complex review on the value of nutrition to our health and the importance of it during critical phases of development
- ❖ Addresses the factors involved in the vulnerabilities in early development, the relationship between nutrition during critical phases of development and disease risk later in life and makes recommendations for public health
- ❖ Edited and written by leading experts in the field

READERSHIP: Nutritionists, dietitians and those working in developmental programming. Libraries within universities, medical schools and research establishments

SERIES: BRITISH NUTRITION FOUNDATION

APR 2013 • 392PP • 978-1-444-33678-8 • PR • €59.99





Practical Transfusion Medicine

4th Edition

MICHAEL F. MURPHY, DERWOOD H. PAMPHILON & NANCY M. HEDDLE

University of Oxford, Oxford, UK; University of Bristol, Bristol, UK; McMaster University, Hamilton, Ontario, Canada

- ❖ A new edition of this award-winning book which provides a concise and user-friendly guide focusing on the clinical aspects of transfusion medicine
- ❖ The first edition won a BMA book award and the third edition was highly commended
- ❖ Fully revised and updated with an improved layout and a new chapter on cytokines in transfusion medicine
- ❖ Greater internationality: the previous Editors have been joined by Nancy Heddle from Canada, winner of the International Women in Transfusion award in 2009

READERSHIP: Primary: transfusion medicine specialists and haematologists Secondary: laboratory technicians and medical personnel working in blood banks

MAY 2013 • 546PP • 978-0-470-67051-4 • CL • €89.99

REPLACES ISBN: 978-1-405-18196-9



Abdominal Organ Retrieval and Transplantation Bench Surgery

GABRIEL ONISCU, JOHN FORSYTHE & JOHN FUNG

Royal Infirmary of Edinburgh; Royal Infirmary of Edinburgh; Cleveland Clinic, Ohio, USA

- ❖ Covers all aspects of retrieval and bench surgery of the abdominal organs, including organ retrieval logistics and organ preservation; retrieval and bench surgery of the kidney, liver, pancreas and intestine; *in situ* and *ex situ* liver splitting; multi-organ retrieval; paediatric age-specific aspects of retrieval and bench surgery
- ❖ Features detailed colour illustrations of standard techniques
- ❖ Includes practice learning points for each procedure and thorough guidance on dealing with anatomical variations
- ❖ Decision algorithms for both common and challenging clinical scenarios will help support readers

READERSHIP: Transplant surgeons and specialists, donor retrieval teams, others involved in abdominal organ transplantation

JUN 2013 • 256PP • 978-0-470-65786-7 • CL • €93.99



Identification of Pathogenic Fungi

2nd Edition

COLIN CAMPBELL, ELIZABETH JOHNSON & DAVID W. WARNOCK

Health Protection Agency, Bristol; Health Protection Agency, Bristol; Centers for Disease Control & Prevention, Atlanta, Georgia

- ❖ A fully updated new edition from world renowned experts in medical mycology
- ❖ Features new colour photographs of key species and their microscopic features
- ❖ Includes the latest antifungal drugs, updated taxonomic information, new agents of infection, and new infection associations
- ❖ Endorsed by the Health Protection Agency

READERSHIP: Infectious disease specialists, clinical microbiologists, mycologists, those in the food industry, in agricultural science, and drug testing

APR 2013 • 336PP • 978-1-444-33070-0 • CL • €89.99

REPLACES ISBN: 978-0-901-14439-3 (Public Health Laboratory Service)



Infectious Disease Surveillance

2nd Edition

NKUCHIA M. M'IKANATHA, RUTH LYNFIELD, CHRIS A. VAN BENEDEEN & HENRIETTE DE VALK

Pennsylvania Department of Health; Minnesota Department of Health; Centers for Disease Control and Prevention, Atlanta, Georgia; Institut de Veille Sanitaire, France

- ❖ Portrays both the conceptual framework and practical aspects of infectious disease surveillance
- ❖ Designed to improve the tracking of infectious diseases and to serve as a starting point in the development of new surveillance systems
- ❖ Includes over 45 chapters from over 100 contributors, with topics organized into six sections
- ❖ **Section One** highlights the critical role surveillance plays in public health; **Section Two** describes surveillance systems based on logical program areas; **Sections Three and Four** explore the uses of the internet and wireless technologies; **Sections Five and Six** discuss legal and ethical considerations

READERSHIP: Frontline public health practitioners, epidemiologists, and clinical microbiologists who are engaged in communicable disease control; and trainees in public health, applied epidemiology, postgraduate medicine and nursing programs

MAY 2013 • 722PP • 978-0-470-65467-5 • CL • €110.00

REPLACES ISBN: 978-1-405-14266-3

Premature Ejaculation

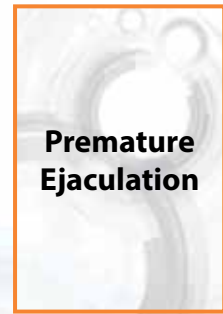
Diagnosis and Treatment

MARCEL WALDINGER

Haga Hospital Leyenberg, Netherlands

- ❖ Provides a practical approach to clinical diagnosis and treatment of premature ejaculation
- ❖ Includes 'Tips and Tricks' boxes – hints on improving outcomes perhaps via practical technique, patient questioning
- ❖ 'Caution' warning boxes – hints on avoiding problems, perhaps via contraindications
- ❖ 'Science Revisited' – quick reminder of the basic science principles necessary for understanding
- ❖ Algorithms and guidelines for ease of use

SERIES: SMIP - SEXUAL MEDICINE IN PRACTICE
 MAY 2013 • 224PP • 978-0-470-65936-6 • CL • €64.99



Premature
Ejaculation

Atlas of Male Genito Urethral Surgery

ASIF MUNEEB

University College London

- ❖ Covers new techniques in penile and urethral surgery
- ❖ Step-by-step illustrated approach
- ❖ Provides surgical tips for improved results
- ❖ Contains DVD of procedures

READERSHIP: Urologists and andrologists
 JUN 2013 • 180PP • 978-1-444-33556-9 • CL • €99.99



Atlas of Male
Genito
Urethral
Surgery

The Textbook of Pharmaceutical Medicine

7th Edition

JOHN P. GRIFFIN, JOHN POSNER & GEOFFREY R. BARKER

Director, Asklepion Consultancy Ltd; Independent Consultant in Pharmaceutical Medicine; Independent Consultant in Pharmaceutical Medicine

- ❖ Now in its seventh edition, represents the standard reference for all those working in pharmaceutical medicine
- ❖ Recognised text for the UK Faculty of Pharmaceutical Diploma
- ❖ Reflects the enormous changes in the pharmaceutical environment, many of which have occurred since 2009 when the last edition was published
- ❖ New chapters and new authors in each section, and more consideration given to ethical issues across all areas of the book

READERSHIP: Students studying for the UK Faculty of Pharmaceutical Diploma, practising pharmaceutical medicine physicians in the pharmaceutical industry and academia, contract research organizations and government regulatory agencies
 MAY 2013 • 784PP • 978-0-470-65987-8 • CL • €187.50



Review Questions for MRI

2nd Edition

CAROLYN KAUT ROTH & WILLIAM FAULKNER

Fellow SMRT (Section for Magnetic Resonance Technologists); Director Technologist Continuing Education and MRI Internship Programs for Technologists, University of Pennsylvania Heal Systems, Philadelphia, Pennsylvania; University of Pennsylvania Heal Systems, Philadelphia

- ❖ Bestselling text for Magnetic Resonance Imaging revised and updated to reflect new ARRT guidelines for the MRI boards
- ❖ Offers students a comprehensive review of the principles and applications of MRI to prepare them for the examination
- ❖ Must have self-assessment tool for independent study
- ❖ Written by leaders in the field of MRI

READERSHIP: Students and practicing MRI technologists preparing for the MRI boards
 APR 2013 • 336PP • 978-1-444-33390-9 • PR • €34.99



Review
Questions for
MRI



Medical Imaging

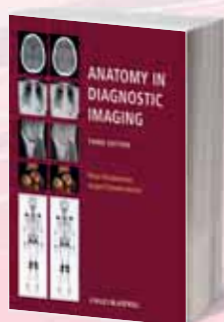
Essentials for Physicians

ANTHONY B. WOLBARST, PATRIZIO CAPASSO & ANDREW R. WYANT

All University of Kentucky, USA

- ❖ A concise introduction to imaging
- ❖ Addresses the science and technology of image formation, a field of critical importance to this audience
- ❖ Includes realistic, clinical case examples throughout
- ❖ Thorough use of images in diagnosis and interpretation

MAY 2013 • 384PP • 978-0-470-50570-0 • CL • €53.50



Anatomy in Diagnostic Imaging

3rd Edition

PETER FLECKENSTEIN, PETER SAND MYSCHEZKY & JORGEN TRANUM-JENSEN

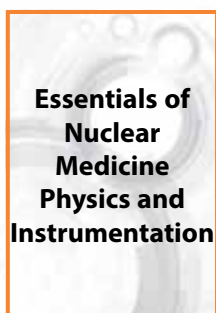
University of Copenhagen

- ❖ A basic atlas of anatomy applied to diagnostic imaging covering entire human body
- ❖ Employs all imaging modalities used in clinical practice; x-ray, CT, MR, ultrasound and scintigraphy
- ❖ Features over 800 high quality images
- ❖ New edition expanded to include extra coverage on MR scanning and for the first time, covers the increasingly popular PET scanning

READERSHIP: Medical students, radiologists, radiographers and other medical personnel working with diagnostic imaging

MAY 2013 • 476PP • 978-1-405-13991-5 • PR • €59.99

REPLACES ISBN: 978-8-716-12336-7



Essentials of Nuclear Medicine Physics and Instrumentation

3rd Edition

RACHEL A. POWSNER, MARK R. PALMER & EDWARD R. POWSNER

Boston University School of Medicine, Massachusetts; Gross Pointe Farms, Michigan

- ❖ This new revision offers simplified text and additional illustrations
- ❖ Includes new coverage of CT and of the latest technologies, such as hybrid / dual scanning systems: PET/CT and SPECT/CT
- ❖ Contains new discussions of the latest technology based on solid state detectors and new scanner designs optimized for specific dedicated imaging applications such as cardiac, breast or thyroid
- ❖ Expanded coverage of image reconstruction and processing techniques and new material on methods of image display

APR 2013 • 240PP • 978-0-470-90550-0 • PR • €53.50



Sports Nutrition

Encyclopaedia of Sports Medicine

2nd Edition

RONALD J. MAUGHAN

Loughborough University, UK

- ❖ Comprehensive coverage of nutrition as it relates to athletic performance
- ❖ Written by leading experts from the fields of nutrition, sports science, and sports medicine
- ❖ Published in conjunction with the Medical Commission of the International Olympic Committee
- ❖ Outlines the current state of knowledge from the biochemistry and physiology of eating to practical guidance for trainers, coaches, physicians, and other professionals
- ❖ Includes topics such as weight management, supplements, and planning diets for optimal training and performance

READERSHIP: Practitioners in sports medicine including trainers, coaches, physicians, and other professionals

SERIES: THE ENCYCLOPAEDIA OF SPORTS MEDICINE

JUN 2013 • 704PP • 978-1-118-27576-4 • CL • €129.99

Evidence-Based Pediatric Oncology

3rd Edition

ROSS PINKERTON, AG SHANKAR & KATHERINE MATTHAY

Mater Children's Hospital, Brisbane; University of California at San Francisco

- ❖ Renowned reference for pediatric oncologists presenting best evidence for treatment of children and adolescents with cancer
- ❖ Ground-breaking text on the management of childhood cancers, covering all tumor types occurring in children and young adults
- ❖ Each topic includes commentaries from the world's leading experts
- ❖ Internationally relevant with contributions from the UK, US and Australia

READERSHIP: Pediatric oncologists, pediatricians, pediatric oncology nurse specialists, paediatric nurse specialists

SERIES: EVIDENCE-BASED MEDICINE

APR 2013 • 320PP • 978-0-470-65964-9 • CL • €99.95

REPLACES ISBN: 978-1-405-14268-7



Business Basics for Dentists

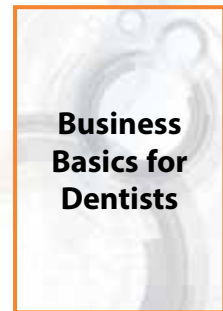
DAVID O. WILLIS

Department of Diagnosis and General Dentistry, University of Louisville, Louisville, Kentucky, USA

- ❖ Written by a practicing dentist who is also an M.B.A. and certified financial planner
- ❖ Applies core business principles to the specifics of dental practice
- ❖ Web site includes handouts, checklists, forms, etc.

READERSHIP: predoctoral dental students, dental residents, and practicing dentists

APR 2013 • 384PP • 978-1-118-26606-9 • PR • €TBA



Surgical Essentials of Immediate Implant Dentistry

JAY R. BEAGLE

Private practice, Indianapolis, Indiana, USA

- ❖ Surveys surgical techniques for all scenarios of extraction and immediate placement
- ❖ Provides essential evidence-based information on immediate implant placement
- ❖ Highly illustrated with more than 250 clinical photographs

READERSHIP: Oral and maxillofacial surgeons, periodontics, prosthodontics, and all dentists with an interest in implant placement

FEB 2013 • 120PP • 978-0-813-81606-7 • CL • €49.99



The Orthodontics Mini Implant Clinical Handbook

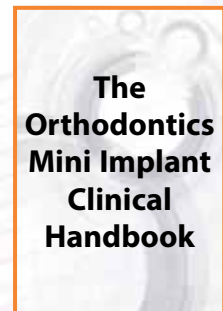
RICHARD COUSLEY

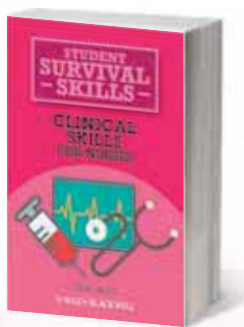
Consultant Orthodontist for the Peterborough & Stamford Hospitals NHS Foundation Trust

- ❖ The must-have book for trainee and practicing orthodontists, providing essential theoretical and clinical mini-implant information
- ❖ Aimed at enabling clinicians to easily introduce skeletal anchorage into their practice across a wide variety of common clinical scenarios
- ❖ A step-by-step approach helps guide the reader through the most common clinical uses for orthodontic mini-implants including: incisor retraction, molar distalisation, transverse and asymmetry corrections, and orthognathic surgery uses
- ❖ In full colour and highly illustrated throughout with useful clinical tips and laboratory descriptions

READERSHIP: Practicing and trainee orthodontists

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Clinical Skills for Nurses

Student Survival Skills

CLAIRE BOYD

North Bristol NHS Trust, Bristol, UK

- ❖ A handy, portable introduction to both the knowledge and practical procedures that first year nursing students require
- ❖ Provides words of wisdom and advice from real-life student nurses
- ❖ Pocket-sized for portability on clinical placement
- ❖ Examples and questions based on real life nursing & healthcare examples
- ❖ Ties in with the NMC standards for pre-registration education and the Essential Skills Clusters

READERSHIP: Pre-registration adult nursing students, health care assistants, assistant practitioners, students returning to practice

SERIES: STUDENT SURVIVAL SKILLS

APR 2013 • 220PP • 978-1-118-44877-9 • PR • €9.99



Medicine Management for Nurses

Student Survival Skills

CLAIRE BOYD

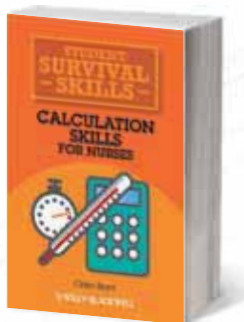
North Bristol NHS Trust, Bristol, UK

- ❖ A concise, pocket-sized companion to the subject of medicines management and drug administration, aimed at student nurses, assistant practitioners, and newly qualified registered nurses
- ❖ Developed by students for students: tips, advice and words of wisdom from real-life students included throughout
- ❖ Ties in with the NMC standards for pre-registration education and the Essential Skills Clusters
- ❖ Includes activities for the reader throughout to test understanding

READERSHIP: Pre-registration nursing students, primarily in year 1. Nursing students on 'top-up' degrees

SERIES: STUDENT SURVIVAL SKILLS

APR 2013 • 264PP • 978-1-118-44885-4 • PR • €9.99



Calculations Skills for Nurses

Student Survival Skills

CLAIRE BOYD

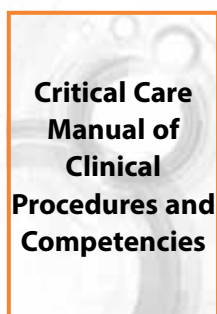
North Bristol NHS Trust, Bristol, UK

- ❖ A pocket-sized, portable textbook for pre-registration nursing students to use in the classroom or on their clinical placement
- ❖ Developed by students for students: tips, advice and words of wisdom from real-life students included throughout
- ❖ An essential topic applicable to all fields of nursing – with examples from adult, mental health, paediatric and midwifery
- ❖ Ties in with the NMC standards for pre-registration education and the Essential Skills Clusters

READERSHIP: Pre-registration nursing students, primarily in year 1. Nursing students on 'top-up' degrees

SERIES: STUDENT SURVIVAL SKILLS

APR 2013 • 216PP • 978-1-118-44889-2 • PR • €9.99



Critical Care Manual of Clinical Procedures and Competencies

JANE MALLETT, JOHN ALBARRAN & ANNETTE RICHARDSON

Head of Nursing Practice, Education and Research; University of the West of England

- ❖ Provides essential evidence-based procedures for all critical care practitioners
- ❖ Includes a robust competency framework that can be used by all disciplines
- ❖ Underpins best practice by drawing on the best available evidence
- ❖ Follows a systematic approach to providing care
- ❖ Facilitates the development of critical care knowledge and skills
- ❖ Provides benchmarks to help assess and develop clinical practice
- ❖ Indicates areas where specialist training is needed

READERSHIP: Qualified nurses and nursing students, critical care nurses, intensive care nurses

MAY 2013 • 536PP • 978-1-405-12252-8 • PR • €29.99

Numeracy in Children's Nursing and Healthcare

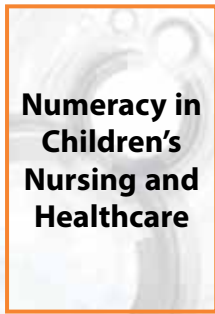
Skills for Practice

ARIJA PARKER

University of Central Lancashire, Preston, UK

- ❖ An accessible, user-friendly guide to the essential skills associated with maths and numeracy in children's nursing
- ❖ Full of interactive features to bring the subject to life
- ❖ Offers hints and tips throughout that link numeracy into children's nursing practice
- ❖ Instils students and nurses with confidence and competence when working with numbers and calculating drug doses

READERSHIP: Pre- registration Child Branch Students; Registered Children's Nurses and healthcare practitioners
JUN 2013 • 300PP • 978-0-470-65839-0 • PR • €19.99



Numeracy in Children's Nursing and Healthcare

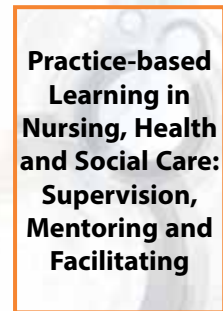
Practice-based Learning in Nursing, Health and Social Care: Supervision, Mentoring and Facilitating

IAN SCOTT & JENNY SPOUSE

University of Worcester, Worcester, UK; Formerly City University, London, UK

- ❖ A practical text that promotes effective professional learning in the workplace
- ❖ Accessible guidance for new and experienced practice educators, mentors and facilitators alike, in all areas of health and social care
- ❖ Written by authors with extensive experience in the field
- ❖ Uniquely focuses on the professional development of the mentor/facilitator themselves
- ❖ Provides case studies throughout showing how to engage in formal theories of professional practice

READERSHIP: Any practitioner who is involved in facilitating learning, teaching and assessing learners in practice, in the fields of health and social care
MAR 2013 • 256PP • 978-0-470-65606-8 • PR • €26.99



Practice-based Learning in Nursing, Health and Social Care: Supervision, Mentoring and Facilitating

Reflective Practice in Nursing

5th Edition

CHRIS BULMAN & SUE SCHUTZ

Both of Oxford Brookes University, Oxford, UK

- ❖ 5th edition of a successful textbook for nursing students and nurses
- ❖ A practical, evidence-based introduction to this essential subject area
- ❖ Includes activities, examples and exercises throughout to bring this topic to life
- ❖ Extensively updated, with brand new chapters on writing reflectively, clinical supervision, and reflection and clinical expertise

READERSHIP: Nursing students and practitioners
APR 2013 • 264PP • 978-0-470-65810-9 • PR • €25.99

REPLACES ISBN: 978-1-405-17360-5



Essentials for Occupational Health Nursing

ARLENE GUZIK

Business Health Resources, Inc. and Lakeside Occupational Medical Centers, Largo, Florida, USA

- ❖ Practical and accessible guide to occupational health nursing
- ❖ Addresses occupational health issues from the employer perspective
- ❖ Covers the role of the OHN, cultural issues, and US regulations
- ❖ Provides case studies on fitness for duty and medical monitoring

READERSHIP: occupational health nurses, community health nurses, graduate programs in occupational health nursing and community health nursing, primary care nurse practitioner programs

MAR 2013 • 456PP • 978-0-813-80689-1 • PR • €37.99





Caring for Children with Special Healthcare Needs and Their Families

A Handbook for Healthcare Professionals

LINDA L. EDDY

Washington State University, Vancouver, Washington, USA

- ❖ Practical guide to providing optimal healthcare to children with special needs
- ❖ Addresses physical and developmental disabilities
- ❖ Utilized individual and family theory to serve the family as a whole

READERSHIP: pediatric nurse practitioners, registered nurses, healthcare technicians, physician assistants and social services professionals
MAR 2013 • 232PP • 978-0-813-82082-8 • PR • €37.99

Supporting a Physiologic Approach to Pregnancy and Birth

Supporting a Physiologic Approach to Pregnancy and Birth

A Practical Guide

MELISSA AVERY

University of Minnesota School of Nursing, Minneapolis, Minnesota, USA

- ❖ Provides current evidence and practical suggestions to promote physiologic birth within the US health care system
- ❖ Presents the latest evidence available on practical approaches and minimal interventions
- ❖ Explores in-hospital and out-of-hospital care methods
- ❖ Coverage includes physiology and supportive approach methods; interventions such as touch therapies, water immersion and acupuncture; and organizational approaches including the current status of policies and recommendations for change

READERSHIP: practicing midwives, graduate students in midwifery, other members of the labor team, physicians, nurse leaders, nurse administrators, and policy makers
JUN 2013 • 256PP • 978-0-470-96286-2 • PR • €TBA

Occupational Therapy and Older People

2nd Edition

ANITA ATWAL & ANNE MCINTYRE

Brunel University, London; Brunel University, London

- ❖ Promotes pro-active ageing and innovation in the practice of occupational therapy with older people
- ❖ Adopts the framework of the WHO International Classification of Functioning, Disability and Health
- ❖ Reveals the diversity of occupational performance considerations in older age through specialist contributions
- ❖ Includes case studies, narratives and user perspectives providing a comprehensive resource for students and a basic working reference for clinicians

READERSHIP: Primary: occupational therapy students; Secondary: occupational therapists
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Rheumatology Practice in Occupational Therapy

Promoting Lifestyle Management

LYNNE GOODACRE & MAGGIE MCARTHUR

University of Central Lancashire, UK; University of East Anglia, UK

- ❖ A valuable new handbook in a core area of Occupational Therapy practice – the first guide to promote a truly person-centred approach
- ❖ Draws on unique personal narratives from people living with rheumatic disease and from therapists working with them
- ❖ Written by highly experienced authors with extensive experience in clinical and research contexts
- ❖ Includes helpful resource sections at the end of each chapter

READERSHIP: Practicing occupational therapists, OT students preparing for practice, physiotherapists
APR 2013 • 232PP • 978-0-470-65516-0 • PR • €29.99

Rheumatology Practice in Occupational Therapy

Statistics for Veterinary and Animal Science

3rd Edition

AVIVA PETRIE & PAUL WATSON

Eastman Dental Institute, University of London, UK; Royal Veterinary College, UK

- ❖ An introductory text which assumes no previous knowledge of statistics, and is written in a non-mathematical way, the emphasis being on understanding the underlying concepts and correctly interpreting computer output
- ❖ The data sets from the examples in the book are available as electronic files to download from the book's companion website at www.wiley.com/go/petrie/statisticsforvets
- ❖ New chapters on: reporting guidelines; critical appraisal of randomized controlled trials and observational studies in the published literature; and specialist topics including ethical issues of animal investigations, spatial statistics, veterinary surveillance, and statistics in molecular and quantitative genetics

READERSHIP: Students and researchers of veterinary and animal science

MAY 2013 • 424PP • 978-0-470-67075-0 • PR • €34.99

REPLACES ISBN: 978-1-405-12781-3



**Statistics for
Veterinary
and Animal
Science**

BSAVA Manual of Canine and Feline Radiography and Radiology

A Foundation Manual

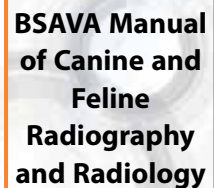
FRASER MCCONNELL & ANDREW HOLLOWAY

University of Liverpool, Small Animal Teaching Hospital, UK; Centre for Small Animal Studies, Animal Health Trust, UK

- ❖ This Foundation Manual replaces the classic *BSAVA Manual of Diagnostic Imaging* as an introduction for veterinary students, nurses and new graduates
- ❖ The Manual includes many high-quality radiographic reproductions, with paired drawings to illustrate normal anatomy and key features of interpretation
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- ❖ Moves on to imaging of the various body systems, with each chapter covering radiographic anatomy, the merits of radiographic assessment, and the use of a systematic diagnostic approach

READERSHIP: Veterinary students and new graduates, veterinary nurses

MAY 2013 • 330PP • 978-1-905-31944-2 • PR • €78.00



**BSAVA Manual
of Canine and
Feline
Radiography
and Radiology**

BSAVA Manual of Rabbit Imaging, Surgery and Dentistry

FRANCES HARCOURT-BROWN & JOHN CHITTY

Harcourt-Brown Ltd, UK; JC Exotic Pet Consultancy Ltd, UK

- ❖ Utilises the growing knowledge and expertise becoming available for the care of these increasingly popular pets
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- ❖ Highly illustrated throughout and featuring step-by-step Operative Techniques
- ❖ Follows the practical approach that is the hallmark of BSAVA Manuals

READERSHIP: General practitioners, veterinary students and veterinary nurses

JUN 2013 • 336PP • 978-1-905-31941-1 • PR • €75.00



**BSAVA Manual
of Rabbit
Imaging,
Surgery and
Dentistry**

BSAVA Manual of Canine and Feline Ophthalmology

3rd Edition

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Davies Veterinary Specialists, UK; University of Wisconsin-Madison Veterinary Medical Teaching Hospital, USA

- ❖ This new edition of one of BSAVA's most popular Manuals has been extensively revised, drawing on the expertise of a predominantly new roster of authors
- ❖ The Manual focuses on common ophthalmic conditions in dogs and cats, structured into examination and clinical techniques, followed by the diagnosis and treatment of common ocular diseases
- ❖ Provides an accessible source of practical information for general practitioners, veterinary students, nurses and technicians as well those working toward specialist qualifications
- ❖ Utilises a problem-oriented approach to common clinical presentations

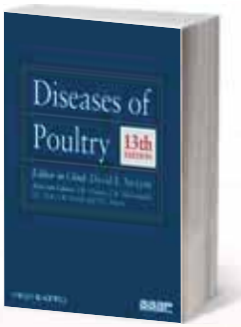
READERSHIP: General practitioners, veterinary students and veterinary nurses

JUN 2013 • 350PP • 978-1-905-31942-8 • PR • €89.00

REPLACES ISBN: 978-0-905-21454-2



**BSAVA Manual
of Canine and
Feline
Ophthalmology**



Diseases of Poultry

13th Edition

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- ❖ Provides comprehensive coverage of all aspects of poultry diseases, including pathogenesis, diagnostics, epidemiology, and control methods
- ❖ Maintains its position as the international definitive reference on diseases of poultry
- ❖ Includes new information on recently developed diagnostic tools, zoonotic infection for poultry pathogens, conceptual operational biosecurity, and disease control in organic production systems

READERSHIP: poultry veterinarians, veterinary diagnosticians, poultry scientists, students specializing in poultry health, and government officials who deal with poultry health

JUN 2013 • 1400PP • 978-0-470-95899-5 • CL • €158.99



Veterinary Ophthalmology

5th Edition

KIRK N. GELATT, BRIAN C. GILGER & THOMAS J. KERN

University of Florida, USA; North Carolina State University, USA; Cornell University, USA

- ❖ Fully revised edition of the gold-standard reference on veterinary ophthalmology
- ❖ Offers unparalleled coverage of diseases and treatment of the animal eye
- ❖ Written by an international group of leading veterinary ophthalmologists
- ❖ Updated and expanded to include recent advances in the field, with new chapters on ophthalmic genetics and DNA tests, surgical and laser applications, camelid ophthalmology, and marine mammals and penguins, with a new companion website offering the images from the book for download and references linked to PubMed at www.wiley.com/go/gelatt/ophthalmology

READERSHIP: Ophthalmology specialists and residents, as well as practitioners with a special interest in ophthalmology and veterinary students

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Canine Sports Medicine and Rehabilitation

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Canine Sports Productions, USA; Canine Rehabilitation Institute, USA

- ❖ Presents complete information on sports medicine and rehabilitation in dogs
- ❖ Includes illustrations and photographs throughout to demonstrate the concepts
- ❖ Describes clinical cases to illustrate the clinical relevance
- ❖ Provides must-have information for any veterinarian working with canine athletes or rehab patients

READERSHIP: veterinarians, including rehabilitation practitioners, orthopedic surgeons, neurosurgeons, and physiotherapists

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Radiography of the Dog and Cat

Guide to Making and Interpreting Radiographs

MICHAEL C. MUHLBAUER & STEPHEN K. KNELLER

Veterinary Imaging Specialists, PC, USA; College of Veterinary Medicine, University of Illinois at Urbana-Champaign, USA

- ❖ Provides a practical guide to making and interpreting quality radiographs
- ❖ Offers concrete guidance for improving the quality of radiographs and the accuracy of diagnosis
- ❖ Includes complete evaluation checklists, extensive differential diagnoses, and numerous figures and line drawings
- ❖ Serves as both a fast access manual to key information and as a more detailed reference to specific diseases, disorders, and abnormal radiographic findings

READERSHIP: Small animal practitioners, veterinary students, and radiologists

APR 2013 • 392PP • 978-1-118-54747-2 • CL • €TBA

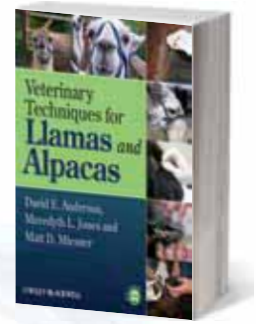
Veterinary Techniques for Llamas and Alpacas

DAVID ANDERSON, MATT MIESNER & MEREDYTH JONES

University of Tennessee at Knoxville, USA; Kansas State University, USA; Texas A&M University, USA

- ❖ Presents a step-by-step guide to performing procedures in llamas and alpacas
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- ❖ Color photographs illustrate the concepts described

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Cell and Molecular Biology

7th Edition

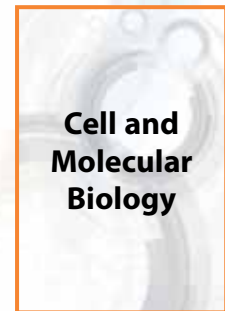
GERALD KARP

Formerly of the University of Florida, Gainesville, USA

- ❖ Written for an introductory course in cell and molecular biology, this text elaborates on fundamental concepts
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- ❖ A high-quality art and photo program helps students visualize complex processes

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Key Topics in Conservation Biology 2

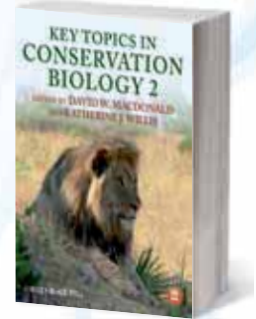
DAVID W. MACDONALD & KATHERINE J. WILLIS

Both from University of Oxford, UK

- ❖ Includes a new set of multidisciplinary reviews of key issues and methods in conservation biology written by some of the world's top experts
- ❖ Builds upon the very influential first volume, *Key Topics in Conservation Biology*, published in 2006
- ❖ Explores an additional 25 cutting-edge issues in modern biodiversity conservation, including controversial subjects such as setting conservation priorities and balancing the focus on species and ecosystems
- ❖ Includes chapters on major ecosystems, such as forests, islands and both fresh and marine waters, along with case studies of the conservation of major taxa: plants, butterflies, birds and mammals

READERSHIP: Postgraduates in conservation biology and conservation science, as well as undergraduates in conservation in a variety of disciplines
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Invasion Ecology

2nd Edition

JULIE LOCKWOOD, MARTHA HOOPES & MICHAEL MARCHETTI

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- ❖ Serves as the second edition of the first established teaching textbook on invasion ecology, a subject of increasing importance
- ❖ Features the works of world-leading experts in the field who apply their teaching expertise to the text
- ❖ Covers many basic ecological theories and purposefully situates them within the context of a multi-stage invasion process
- ❖ Provides an applied tone and emphasises ways of testing the utility of invasion theories using a variety of investigative techniques (e.g. observation, modelling, and experimentation)

READERSHIP: Upper level undergraduate and postgraduate students taking invasion ecology courses as part of their undergraduate and postgraduate degrees in ecology, conservation, and applied ecology

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Data Analysis in Vegetation Ecology



Data Analysis in Vegetation Ecology

2nd Edition

OTTO WILDI

Swiss Federal Institute for Forest, Snow and Landscape Research, Switzerland

- ❖ Serves as a succinct and accessible text on the subject
- ❖ Offers clear illustrations, examples and case studies relating to real world phenomena in order to explain complex concepts and operations
- ❖ Highlights both the potential and limitations of the methods used, and the final interpretations
- ❖ Provides suggestions on the use of the most widely used statistical software in vegetation ecology and methods to analyse the data, now including practical examples of 'R'

READERSHIP: Researchers and academics in the areas of vegetation and community ecology, biologists, botanists, zoologists and geographers, as well as postgraduate students and advanced undergraduates taking vegetation and plant science

MAY 2013 • 320PP • 978-1-118-38403-9 • PR • €TBA / 978-1-118-38404-6 • CL • €75.00

REPLACES ISBN: 978-0-470-66102-4 • PR / 978-0-470-66101-7 • CL

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Measurements for Terrestrial Vegetation

2nd Edition

CHARLES D. BONHAM

Colorado State University, USA

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Annual Plant Reviews: Plant Nuclear Structure, Genome Architecture and Gene Regulation



Annual Plant Reviews: Plant Nuclear Structure, Genome Architecture and Gene Regulation

Volume 46

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Annual Plant Reviews: Peptide Signals in Plants

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- ❖ Illustrates the growing importance of peptide signals in plant sciences research

READERSHIP: Plant scientists, biochemists, physiologists, molecular biologists, libraries in all universities and research establishments where biological sciences are studied and taught, pharmacognosts, pharmacologists and agricultural scientists

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Seed Genomics

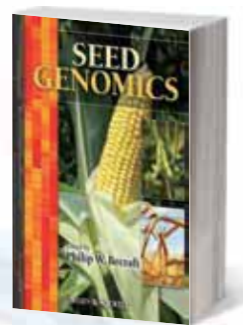
PHILIP W. BECRAFT

Iowa State University, USA

- ❖ Features an up-to-date review of seed genomics, from basic seed biology to practical applications in crop science
- ❖ Provides a thorough background understanding of seed biology from a basic science perspective
- ❖ Looks at translational science applications to agricultural and industrial use of seeds
- ❖ Serves as a valuable resource for advanced graduate students, post-doctorates, researchers and professionals in the plant and crop sciences, written by a leading team of seed scientists

READERSHIP: Crop science industry personnel and researchers, seed science researchers, cellular and molecular biologists, plant biologists, advanced students in crop and plant sciences, seed conservationists, ecologists and botanists

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- ❖ Covers key crops with high potential for use as biofuels
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- ❖ Serves as part of the *Biomass and Biofuels* book series

READERSHIP: Biomass and biofuels researchers, crop geneticists, biotechnologists, genomicists, research institutes, crop science industry personnel, as well as advanced postgraduate students studying crop breeding, genetics, biomass production and biofuels

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- ❖ Offers chapters written by leading researchers in this rapidly growing field

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Spatial and Spatio-Temporal Geostatistical Modeling and Kriging

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- ❖ Includes methods for selecting valid covariance function from the empirical counterpart that overcome the existing limitations of the traditional methods, with innovative developments in the kriging process
- ❖ Presents an up-to-date account of strategies for dealing with data evolving in space and time
- ❖ Features R code and examples throughout the book and in the accompanying website

READERSHIP: Statisticians, economists, researchers, postgraduate students and practitioners in mining, soil science, hydrology, geology, hydrogeology, oceanography, climate and environment, and atmospheric science forestry

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Basin Analysis

Principles and Application to Petroleum Play Assessment
3rd Edition

PHILIP A. ALLEN & JOHN R. ALLEN

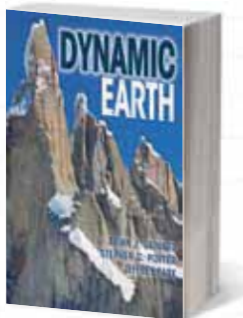
Imperial College London, UK; BHP Billiton, Australia

- ❖ A new edition of a well established best-selling text with a quantitative approach to basin analysis
- ❖ Includes a major new chapter on the application of basin analysis to petroleum systems and an increase in the use of seismic reflection data to illustrate structural and stratigraphic styles
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Physics and Chemistry of the Deep Earth

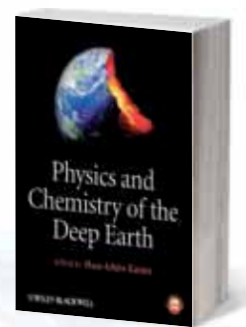
SHUN-ICHIRO KARATO

Yale University, USA

- ❖ Summarises current understanding of the structure and properties of the deep earth, written for advanced students and researchers from diverse fields of earth science
- ❖ Integrates the elements of geophysics and geochemistry, with contributions from a group of high-profile international researchers
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MAY 2013 • 383PP • 978-0-470-65914-4 • CL • €85.00



Fire Phenomena and the Earth System

An Interdisciplinary Guide to Fire Science

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- ❖ Offers an in-depth look at deep time (geological record) as well as modern systems
- ❖ Includes state-of-the-art information and ideas across all research areas within fire science

READERSHIP: Researchers working in ecology and forestry, paleontology, earth system science, climate modelling, biogeochemistry, carbon system science and black carbon, environmental and combustion sciences, and geoscience fields where fire phenomena occasionally plays an important role, and fire safety engineers

MAY 2013 • 624PP • 978-0-470-65748-5 • CL • €65.00



Ecohydraulics

An Integrated Approach

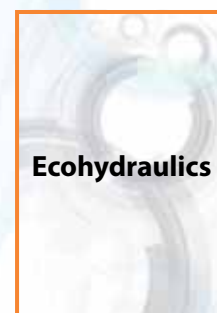
PAUL KEMP, ATLE HARBY, IAN MADDOCK & PAUL J. WOOD

University of Southampton, UK; SINTEF Energy Research, Norway; University of Worcester, UK; Loughborough University, UK

- ❖ Serves as a major global research level text that focuses on ecohydraulics, outlining the development of the subject and highlighting its interdisciplinary research
- ❖ Provides a wide geographic coverage that encapsulates the wide range of approaches, case studies and methods used to conduct ecohydraulic research
- ❖ Considers a range of techniques, including modelling and field-based methods with case studies and examples included from across the globe, including different climates, river management problems and affected biota

READERSHIP: Academics and postgraduate researchers in physical geography, earth sciences, environmental science, environmental management, civil engineering, biology, zoology, botany and ecology; professionals in related fields, as well as final year undergraduates taking River Science, River Management, Hydroecology or Ecohydraulics

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Trace Metals in Aquatic Systems

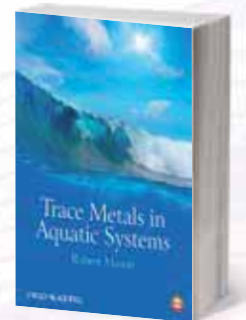
ROBERT MASON

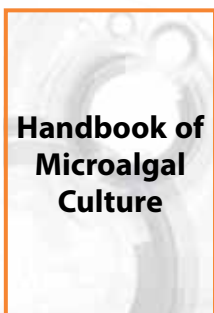
University of Connecticut, USA

- ❖ Provides a detailed examination of the concentration, form and cycling of trace metals and metalloids through the aquatic biosphere
- ❖ Offers the latest research findings on metals pathways in aquatic systems
- ❖ Includes sections dealing with the atmosphere, the ocean, lakes and rivers
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READERSHIP: Postgraduate or upper level undergraduate students studying environmental chemistry, environmental engineering or a related programme as part of a degree in Marine Chemistry, Geochemistry or Geosciences, as well as engineers and managers working in related fields

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**Handbook of
Microalgal
Culture**



Handbook of Microalgal Culture

2nd Edition

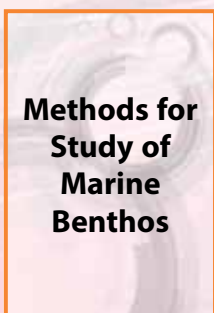
AMOS RICHMOND & QIANG HU

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Benthos**



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Lobsters



Lobsters

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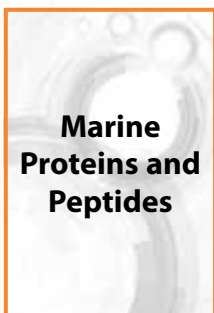
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Milk and Dairy
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Wines from Grape Dehydration

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Wines from
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Dehydration





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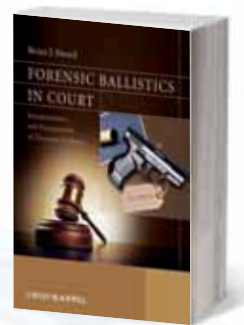
BRIAN J. HEARD

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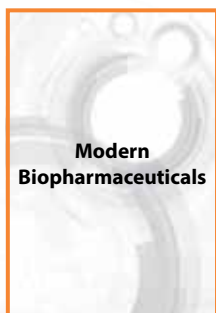
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Modern Biopharmaceuticals

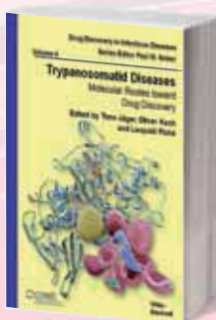
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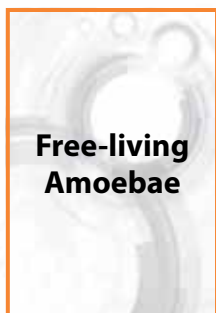
Drug Discovery for Trypanosomatid Diseases

TIMO JÄGER, OLIVER KOCH, LEOPOLD FLOHÉ & PAUL M. SELZER

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**Free-living
Amoebae**

Free-living Amoebae

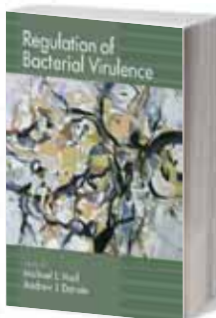
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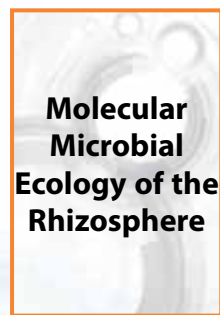
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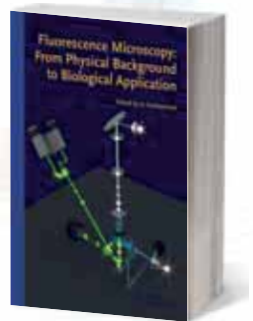
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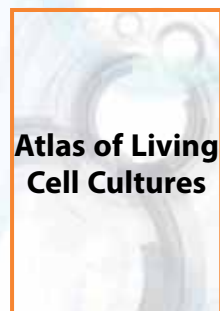
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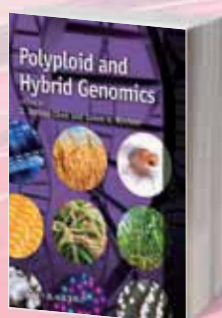
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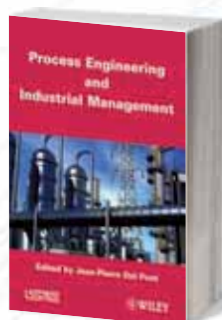
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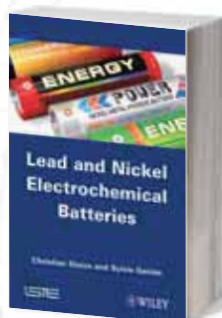
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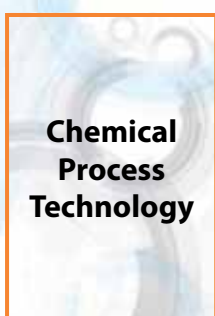
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Pharmaceutical Blending and Mixing

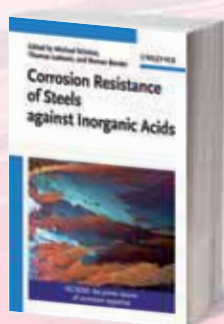
Pharmaceutical Blending and Mixing

P J CULLEN & CHRIS O'RIELLY

Dublin Institute of Technology, UK; Loughborough University, UK

- ❖ Links the science of blending with regulatory requirements associated with pharmaceutical manufacture and the FDA's PAT Initiative
- ❖ Features contributions from leading academic and industrial experts that provide an informed and industrially-relevant perspective on the topic of mixing in the manufacturing pharmaceuticals industry
- ❖ Addresses a gap in the current literature for a dedicated reference on blending within the pharmaceutical manufacturing industry

READERSHIP: Pharmaceutical researchers, equipment designers, and manufacturing / production units, regulatory agencies, university researchers in pharmaceutical science, chemical and mechanical engineering, and bioprocessing
MAY 2013 • 400PP • 978-0-470-71055-5 • CL • €100.00



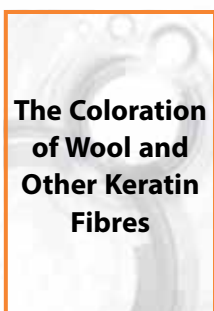
Corrosion Resistance of Steels Against Inorganic Acids

MICHAEL SCHÜTZE, THOMAS L. LADWEIN & ROMAN BENDER

Dechema, Germany; Aalen University of Applied Science, Germany; Dechema, Germany

- ❖ Discusses how metal, food, dye, fertiliser, sugar, explosive, fibre, electrochemical, feedstock, cosmetic and petrochemical depend on hydrochloric, sulfuric, nitric and phosphoric acids for storage, transportation and to induce reaction
- ❖ Features must-have information for all scientist and engineers involved in production processes, and the construction of industrial plants and transport business
- ❖ Includes a handy table of synonym dictionary of trade and common names of all materials included, which is a great help for users in view of matching different norms of the various local markets

READERSHIP: Corrosion specialists, chemical engineers, mechanical engineers, civil engineers, materials scientists, and chemists
OCT 2012 • 682PP • 978-3-527-33520-6 • CL • €229.00



The Coloration of Wool and Other Keratin Fibres

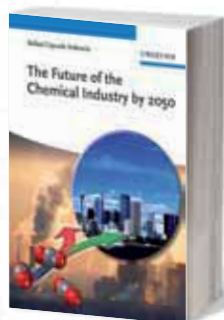
The Coloration of Wool and Other Keratin Fibres

D. LEWIS

University of Leeds, UK

- ❖ Covers all general topics related to dyeing and printing of wool, wool blends and other keratin fibres
- ❖ Provides a scientific and technical knowledge on colouration of keratin fibres, and is used as part of the Wiley-Society of Dyers and Colourists Series
- ❖ Features how keratin fibres, particularly wool fibres, constitute an important natural raw material in the textile field due to its comfort and thermal proprieties

READERSHIP: Academic and industrial textile research centres, cosmetic research laboratories, dye-houses, manufacturers of dyes and dyeing auxiliaries; undergraduates and postgraduates in textile engineering and fashion & textiles
SERIES: SDC-SOCIETY OF DYERS AND COLOURISTS
MAY 2013 • 376PP • 978-1-119-96260-1 • CL • €100.00



The Future of the Chemical Industry by 2050

RAFAEL CAYUELA VALENCIA

- ❖ Examines the status of the chemical industry by 2050, and how the challenges of the chemical industry will be met
- ❖ Explores how the technological supremacy of the chemical industry can help put the industry in a leading position to solve some of the major global challenges

READERSHIP: Practitioners in the chemical industry, including chemists, chemical engineers, and process engineers
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Industrial Organic Pigments

Production, Properties, Applications

4th, Completely Revised Edition

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- ❖ Provides the reader with useful hints on which pigment is best for a given application

READERSHIP: Practitioners in the dyes and pigments industry, paints and coatings industry, chemical industry, automobile industry and plastics industry; company libraries and students in chemistry

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REPLACES ISBN: 978-3-527-60242-1

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THOMAS HOLLOWAY & SCOTT OLIVIER

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- ❖ Presents the environmental effects of hydraulic fracturing

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READERSHIP: Researchers in business, science and innovation theory, postgraduate and MBA students, and professionals in science policy

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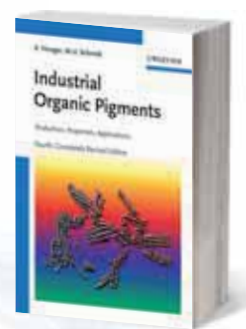
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- ❖ Gives a wide range of practical applications of gas analysis including advantages, problems, and pitfalls
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READERSHIP: Users in the petroleum, semiconductor, plastics, aerospace and automotive industries such as analytical chemists, process engineers, materials scientists, chemical engineers, lab managers, specialty gas managers, and postgraduate students

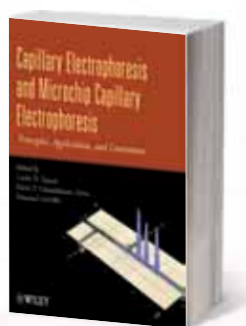
MAY 2013 • 352PP • 978-1-118-06566-2 • CL • €66.95



Induced
Hydraulic
Fracturing

Responsible
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Advances in
Specialty and
Electronic
Gas Analysis



Capillary Electrophoresis and Microchip Capillary Electrophoresis

Principles, Applications, and Limitations

CARLOS D. GARCÍA, EMANUEL CARRILHO & KARIN Y. CHUMBIMUNI-TORRES

University of Texas, USA; University of Sao Paulo, Brazil

- ❖ Features sections on the fundamentals of electrophoretically driven separations and capillary electrophoresis, and a discussion on the application techniques
- ❖ Provides details on specific Capillary Electrophoresis (CE) and Microchip CE (MCE) applications such as aerosol analysis, forensics, chemical warfare agents, pharmaceuticals, and food analysis
- ❖ Includes key contributors in the areas of CE and MCE discussing topics from Dynamic coatings to Electrochemical Detection
- ❖ Discusses common limitations of the CE technique and details possible troubleshooting measures

READERSHIP: Analytical chemistry practitioners, experts in capillary electrophoresis, microfluidics, and detection at the microchip scale, and advanced undergraduate students and postgraduate students

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Foodomics

Advanced Mass Spectrometry in Modern Food Science and Nutrition

A. CIFUENTES

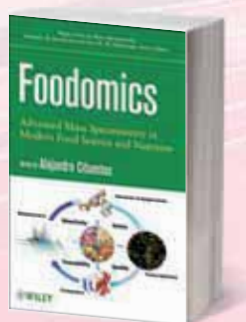
National Research Council, Spain

- ❖ Includes fundamentals, theory, methodological approaches, and important foodomic applications
- ❖ Presents the characteristics, advantages, limits and future perspectives of these new approaches in the food science and nutrition fields
- ❖ Provides a global and completely new perspective on the possibilities of “omics” approaches based on mass spectrometry techniques combined with systems biology in food science and nutrition
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SERIES: WILEY SERIES ON MASS SPECTROMETRY

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Surface Plasmon Enhanced, Coupled and Controlled Fluorescence

CHRIS D. GEDDES

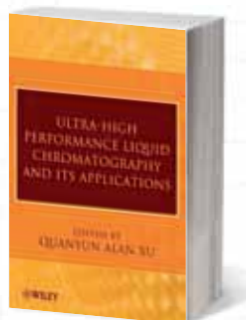
University of Maryland, USA

- ❖ Describes the current developments in surface plasmon enhanced, coupled and controlled fluorescence
- ❖ Features contributions by the world's leading scientists in the area of fluorescence and plasmonics, with cutting-edge research leading to new equipment
- ❖ Details methods used to understand solar energy conversion, detect and quantify DNA more quickly and accurately, and enhance the timeliness and accuracy of digital immunoassay

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JUN 2013 • 408PP • 978-1-118-02793-6 • CL • €100.00

Surface Plasmon Enhanced, Coupled and Controlled Fluorescence



Ultra-High Performance Liquid Chromatography and Its Applications

Q. ALAN XU

University of Texas, USA

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- ❖ Features U-HPLC topics coupled with ultra-violet detector (UV) and mass spectrometer (MS)

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ROHIT BHARGAVA

University of Illinois, USA

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- ❖ Features the works of an author with experience in instrumentation and all major application areas

READERSHIP: PhD students working with FTIR imaging, research groups using imaging in materials analysis, biomedical optics, pathology and forensics, and practitioners involved in optics, image processing and signal processing such as chemometrics
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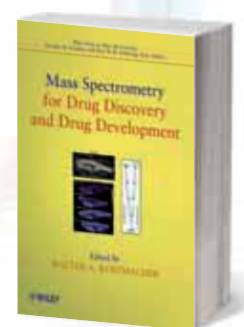
Mass Spectrometry for Drug Discovery and Drug Development

WALTER KORFMACHER

Merck Research Laboratories

- ❖ Explains how mass spectrometry is used in various stages of drug discovery and development which includes early support of medicinal chemistry, drug metabolism studies, and development assays
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- ❖ Includes an introductory chapter and tutorial on MS techniques used in the field of drug discovery and development

READERSHIP: Pharmaceutical scientists that use mass spectrometry, medicinal chemists, postgraduate students in mass spectrometry, and bioanalysts in pharmaceutical drug development
 SERIES: WILEY SERIES ON MASS SPECTROMETRY
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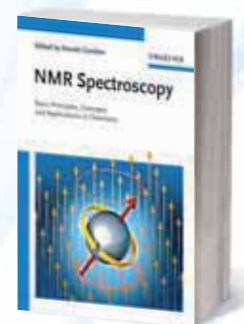
NMR Spectroscopy

HARALD GÜNTHER

University of Siegen, Germany

- ❖ Explains the topic in an efficient and accurate way with useful examples of organic chemistry, as well as a complete set of problems and solutions
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The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging

2nd Edition

ANDRE S. MERBACH, EVA TOTH & LOTHAR HELM

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- ❖ Includes coloured images throughout for easy and accurate representation and interpretation

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REPLACES ISBN: 978-0-471-60778-6





Integrated Solid Waste Management



Integrated Solid Waste Management

A Life Cycle Inventory

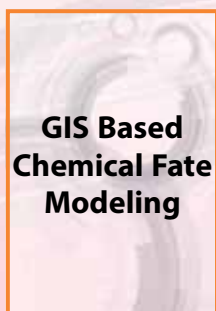
2nd Edition

FORBES R. MCDUGALL, PETER R. WHITE, MARINA FRANKE & PETER HINDLE

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GIS Based Chemical Fate Modeling



GIS Based Chemical Fate Modeling

Principles and Applications

ALBERTO PISTOCCHI

European Commission Joint Research Centre, Italy

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- ❖ Includes practical and worked examples, as well as illustrated concepts and methods on the use of GIS functions for fate modelling which can be easily applied in most GIS packages

READERSHIP: Environmental scientists and engineers, risk assessors, toxicologists, hydrologists, and other scientists in environmental impact analysis and chemical fate modelling

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List of MAK and BAT Values 2012 – Maximum Concentrations and Biological Tolerance Values at the Workplace

EDITED BY DEUTSCHE FORSCHUNGSGEMEINSCHAFT (DFG)

Deutsche Forschungsgemeinschaft (DFG), Germany

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- ❖ Includes the lists of substances which were reviewed in 2009/2010 and substances being examined for the establishment of MAK and BAT values in coming years
- ❖ Contains the largest stock of carefully revised toxicological data worldwide that is internationally acknowledged for its neutrality

READERSHIP: Physicians in industrial medicine, factory doctors, toxicologists, and trade association personnel

SERIES: MAK & BAT VALUES

OCT 2012 • 293PP • 978-3-527-33470-4 • PR • €95.00

REPLACES ISBN: 978-3-527-33061-4



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READERSHIP: Corporate leaders, safety managers, safety professionals, safety consultants, and regional and site managers with responsibilities for safety, and professors and students in the field

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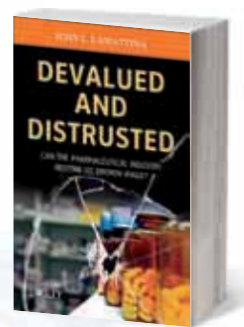
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Purdue University, USA

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- ❖ Features extensive coverage on new techniques and methodologies, like nanocrystals for cancer therapy, tumor-targeted nanoparticles, and intracellular trafficking of nanoparticles
- ❖ Discusses critical concepts to further developments in the field and reduce overall costs of research

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Systems**

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PETER RÖSNER

University of Kiel, Germany

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High-Throughput Screening Methods in Toxicity Testing

PABLO STEINBERG

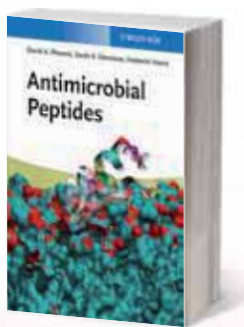
University of Veterinary Medicine, Germany

- ❖ Helps toxicologists understand high-throughput methods to evaluate chemical toxicity with explanation on the advantages and limitations of each method
- ❖ Covers methods, data generation, data analysis, and applications in risk assessment for major toxicological assays
- ❖ Describes future directions for making assays cost-effective, streamlined, and easy to use
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READERSHIP: Veterinary and medical toxicologists, pharmacologists, analytical chemists, pharmaceutical scientists, health and environmental risk assessors, biochemist and academic researchers, industry and regulatory professionals in chemical and drug safety evaluation and risk assessment
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**High-
Throughput
Screening
Methods in
Toxicity
Testing**





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DAVID A. PHOENIX, SARAH DENNISON & FRED HARRIS

All of University of Central Lancashire, UK

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Clinical Impacts

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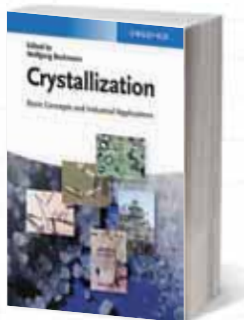


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HAMID MOLLAH, HAROLD BASEMAN & MIKE LONG

- ❖ Contains both the theory and practice of risk management
- ❖ Provides the background, tools, and application of risk in pharmaceutical and biologics manufacturing and operations
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- ❖ Aids in assisting both industry and regulatory agencies to implement risk management approaches that are compliant and effective

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 FEB 2013 • 368PP • 978-3-527-32762-1 • CL • €129.00

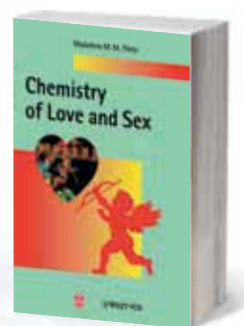
Chemistry of Love and Sex

MADALENA M. M. PINTO

University of Porto, Portugal

- ❖ Provides details on the molecular basis of emotions related to love, passion, and sex, with over 60 illustrations
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READERSHIP: Natural Scientists, students, lecturers and general readers of chemistry and natural sciences, and public libraries
 OCT 2012 • 120PP • 978-3-906-39068-0 • PR • €22.90



Modern Fluoroorganic Chemistry

Second, Completely Revised and Enlarged Edition

PEER KIRSCH

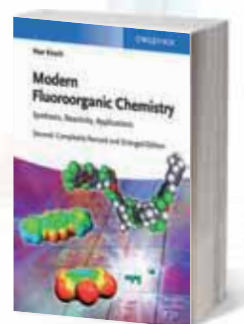
Merck KGaA, Germany

- ❖ Includes the most recent developments in synthetic fluorine chemistry and important applications in the field of organic electronics (LEDs), medicine, peptide structure design, materials science, and dye chemistry
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7th Edition

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REPLACES ISBN: 978-0-471-72091-1



Palladium-Catalyzed Coupling Reactions

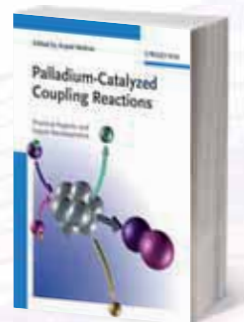
EDITED BY ÁRPÁD MOLNÁR

University of Szeged, Hungary

- ❖ Focuses on practical aspects of using different reaction media, microwave techniques or catalyst recycling
- ❖ Covers homogeneous and heterogeneous catalysis, as well as green chemistry topics like recycling and catalyst sustainability
- ❖ Includes large scale applications, recycling and catalyst immobilisation
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APR 2013 • 692PP • 978-3-527-33254-0 • CL • €115.00





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GALIA MAAYAN & MARKUS ALBRECHT

University of Florida, USA; RWTH Aachen

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- ❖ Describes the variety of interactions between oligomers and metal species, with a focus on non-natural synthetic molecules
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Introduction to Organic Chemistry

5th Edition

WILLIAM H. BROWN & THOMAS POON

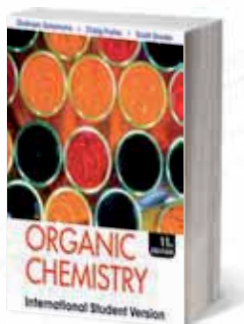
Beloit College; Claremont, McKenna, Pitzer, & Scripps College, USA

- ❖ Examples integrated throughout the text highlight the application of organic chemistry to the health and biological sciences, and more broadly, to the everyday world
- ❖ Extensive use of worked examples to illustrate important concept
- ❖ Categorized end of chapter problems with varied levels of difficulty to challenge students
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11th Edition

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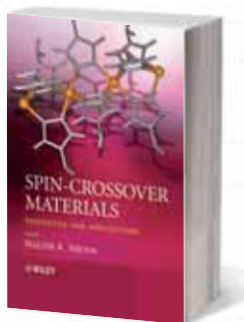
University of South Florida; Pacific Lutheran University; Columbia USA

- ❖ An emphasis on problem solving and critical thinking, key to helping students successfully meet the science and technology needs of the future
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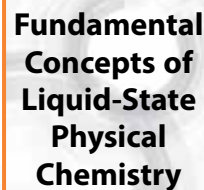
GIJSBERTUS DE WITH

Eindhoven University of Technology, The Netherlands

- ❖ Includes problems and solutions to enhance understanding of fundamental concepts
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**Fundamental
Concepts of
Liquid-State
Physical
Chemistry**

Advances in Chemical Physics, Liquid Polymorphism

Volume 152

H. E. STANLEY

Boston University, USA

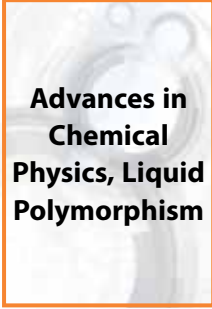
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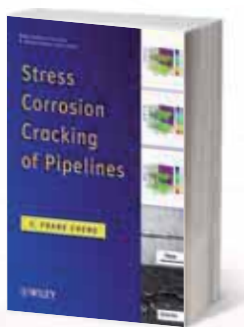
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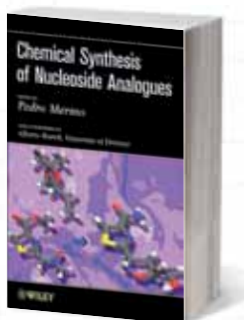
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Queen Mary University of London, UK

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**Glutathione
Synthesis**

Understanding Diabetes

A Biochemical Perspective

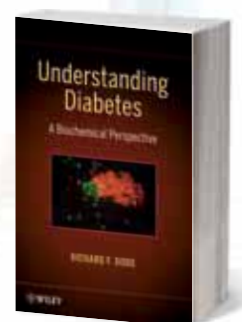
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Applications and Challenges

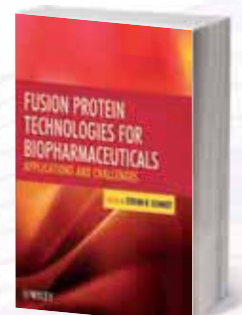
STEFAN R. SCHMIDT

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Single Molecule Studies of Protein Folding

Single Molecule Studies of Protein Folding

JANE CLARKE, ROBERT BEST & ALESSANDRO BORGIA

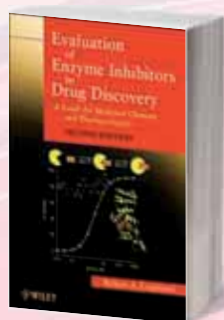
University of Cambridge, UK; University of Cambridge, UK; Universität Zürich, Switzerland

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Sustainable Carbon Materials from Hydrothermal Processes

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Max Planck Institute Colloids & Interfaces; MPI f. Kolloid- u. Grenzflächenforschung

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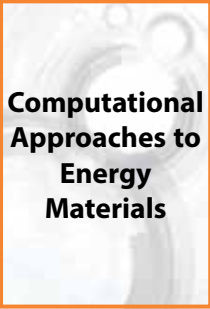
RICHARD CATLOW, ALEXEY SOKOL & ARON WALSH

All of University College London, UK

- ❖ Serves as the first book on the market that reviews current techniques for computational modelling of energy materials, with contributions from internationally renowned editors and leading experts in the field
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Computational
Approaches to
Energy
Materials



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Methods for
the Health
Sciences

Handbook of Health Surveys Methods

TIMOTHY P. JOHNSON

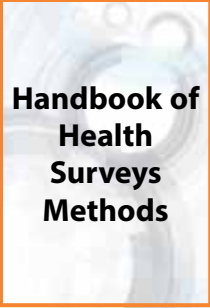
University of Illinois at Chicago, USA

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- ❖ Includes five sections that address important facets of the health survey process: design/sampling, measurement, field practices, surveys for special populations, and data management and analysis
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Handbook of
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Surveys
Methods

Oxydative Ageing of Polymers

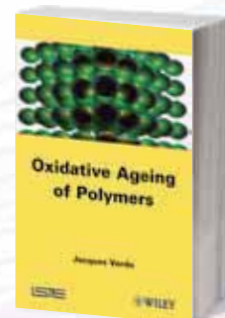
J. VERDU

- ❖ Aims to rehabilitate kinetic modelling in the domain of polymer ageing
- ❖ Shows how simple mechanistic schemes make up the kinetic models used to predict the lifetime of polymer oxidative ageing
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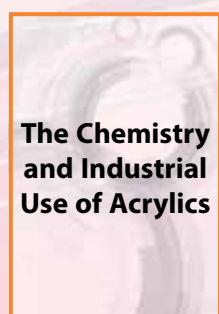
Polymer Adhesion, Friction, and Lubrication

HONGBO ZENG

University of Alberta, Canada

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The Chemistry and Industrial Use of Acrylics

ROBERT V. SLONE

The Dow Chemical Company

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Bio-based Plastics – Materials and Applications

DR STEPHAN KABASCI

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Handbook of Biopolymer-Based Materials

From Blends and Composites to Gels and Complex Networks

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READERSHIP: Materials scientists, polymer chemists, chemical engineers, process engineers, physical chemists, food chemists, and other practitioners in related fields; and libraries
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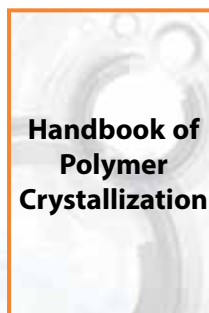
Handbook of Polymer Crystallization

EWA PIORKOWSKA & GREGORY C. RUTLEDGE

Massachusetts Institute of Technology, USA

- ❖ Serves as the only comprehensive reference on polymer crystallisation, and edited by leading authorities in the field
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- ❖ Details common problems and how to resolve issues of orientation induced crystallization, crystallisation in nanocomposites and crystallisation in complex thermal processing conditions

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Handbook of
Polymer
Crystallization



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EDITED BY J. PAULO DAVIM

University of Aveiro, Portugal

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READERSHIP: Academics, biomaterials researchers, mechanical and materials engineers, and professionals in advanced materials
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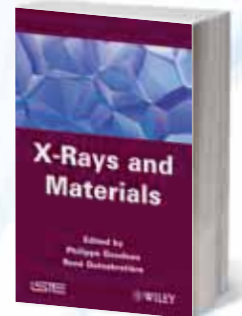
X-Rays and Materials

PHILIPPE GOUDEAU & RENE GUINEBRETIERE

PHYMAT Laboratory, France; ENSCI, France

- ❖ Contains chapters on X-ray diffraction, scattering and absorption
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READERSHIP: X-ray technicians and radiologists
SERIES: ISTE
MAR 2012 • 978-1-848-21342-5 • CL • €125.00



Crystals in Glass

A Hidden Beauty

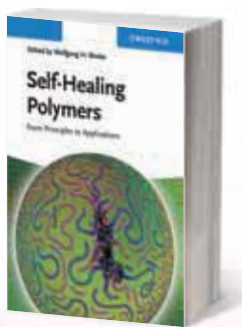
E. D. ZANOTTO

Vitreous Materials Laboratory

- ❖ Includes 50 high quality coloured micrographs of optical or electron-micrograph images of glass crystals
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From Principles to Applications

EDITED BY WOLFGANG H. BINDER

Martin-Luther-University Halle-Wittenberg, Germany

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MICHEL BARSOUM

Drexel University, USA

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Essentials of Energy Technology – Sources, Transport, Storage and Conservation

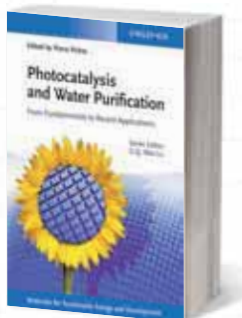
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Understanding
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Corrosion of
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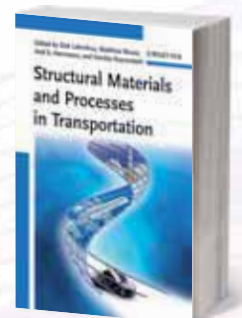
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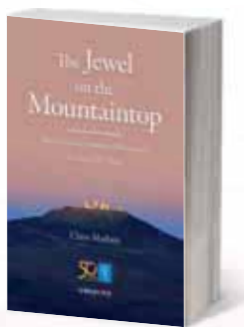
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Structural Materials
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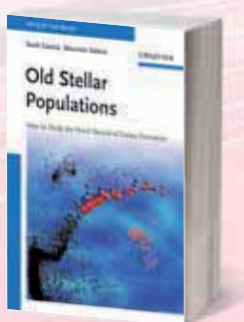
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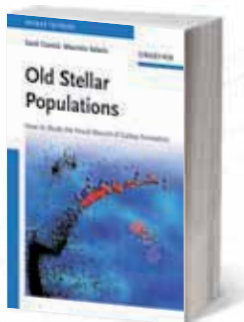
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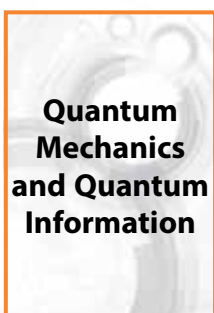
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**Fluctuation
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Thermodynamics**



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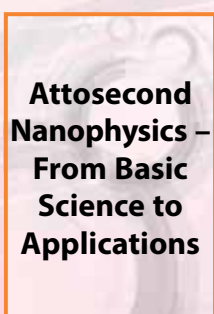
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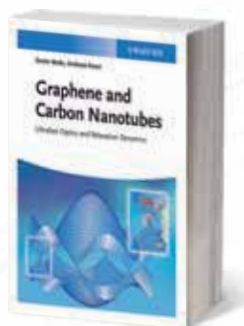
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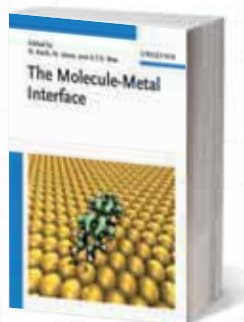
ERMIN MALIC & STEPHAN WINNERL

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Crystal
Structure
Prediction



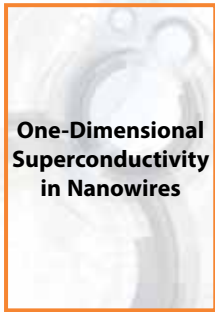
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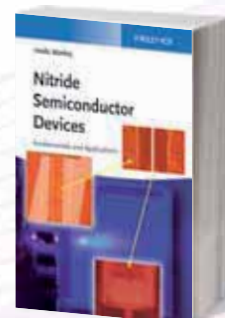
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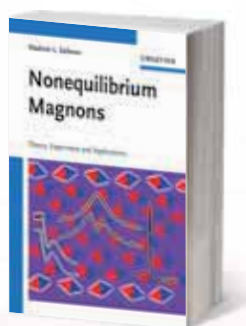
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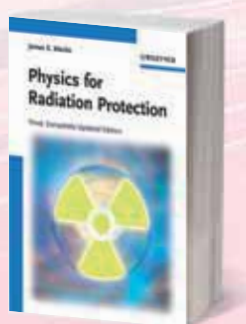
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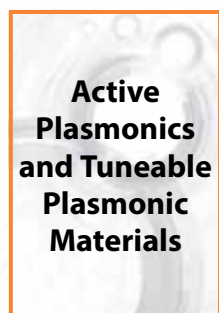
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**Introduction
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Plasmonics**

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**Nanobeam
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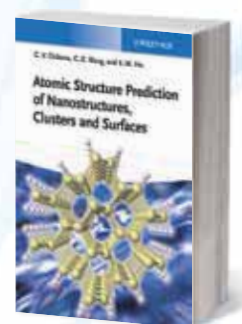
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Colorado School of Mines, USA

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Nanomedicine for Drug Delivery and Therapeutics

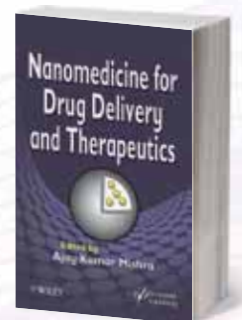
EDITED BY AJAY K. MISHRA

University of Johannesburg, South Africa

- ❖ Provides current and future information on the research and development of biomedical, clinical and nanotechnology
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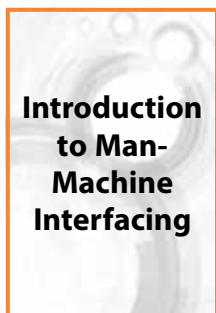


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- ❖ Serves as the only emergency management book to date that discusses HSEEP guidelines, a federally mandated programme essential for securing federal funding
- ❖ Provides the technical information pertaining to HSEEP and combines it with first-hand knowledge to demonstrate its use on a practical level
- ❖ Includes ready-to-use scripts for a variety of scenarios and simulations
- ❖ Covers exercises for different types of disasters such as hurricanes, tornados, earthquakes, pandemics, and dirty bombs

READERSHIP: Emergency management trainees, emergency managers, officer responder units, fire and police chiefs, sheriffs, consultants, and other professionals responsible for emergency exercises, as well as undergraduates, high school and college students taking emergency management
APR 2013 • 380PP • 978-1-118-19488-1 • CL • €60.50



Introduction to Man-Machine Interfacing

DARIO FARINA & KEN YOSHIDA
Georg-August University, Germany

- ❖ Covers the essentials for PhD programmes in biomedical or neural engineering
- ❖ Presents the reader with state-of-the-art technologies for interfacing the neuromuscular system with external devices and gives an overview of the current challenges and recent advances within the field
- ❖ Includes Matlab exercises

READERSHIP: Professors, postgraduate and PhD students in biomedical engineering, electronics engineering, neuroinformatics, neurocomputation, medical informatics, neural engineering, and neuroscience
SERIES: IEEE PRESS SERIES ON BIOMEDICAL ENGINEERING
MAY 2013 • 300PP • 978-1-118-18167-6 • CL • €73.50

Biomedical Signal Processing Using Matlab

Theory and Practice

LUCA MAINARDI & ROBERTO SASSI

Politecnico di Milano; Università degli Studi di Milano

- ❖ Presents a logical step-by-step tutorial on biomedical signal processing, from the theory to the practical using Matlab coding
- ❖ Focuses on examples and practical projects for teaching the subject which makes it an ideal practical text for lab-based courses in biomedical signal processing
- ❖ Features two main sections whereby the first section, Chapters 2 to 6, introduces basic topics in biomedical signal processing, while the second section, Chapters 7 to 11, deals with advanced and novel biomedical signal processing methodologies
- ❖ Includes access to a companion website that hosts an online instructor manual with solutions of selected homework problems

READERSHIP: Lecturers, postgraduate and PhD students in biomedical engineering, and practitioners and professionals in the field of BSP
JUN 2013 • 576PP • 978-0-470-97353-0 • CL • €70.00

Biowireless

The Integration of Wireless Technologies and Smart Instruments in Biomedical Applications

M. MAHFOUZ

University of Tennessee, USA

- ❖ Provides a thorough explanation of the transition from basic engineering design to an advanced level of hardware and software implementation on various biomedical applications
- ❖ Features information on topics such as signal processing basics, types of sensing mechanisms, wireless technology, energy harvesting techniques, wireless systems in hospitals and emerging applications
- ❖ Includes reference material for more advanced topics such as application development and a companion website featuring problems with solutions and well as example codes - Matlab, Mathematica and C/C++

READERSHIP: Postgraduate students in biomedical engineering and electrical engineering, professional engineers in the design of biowireless systems, biomedical engineers, instrumentation engineers, wireless engineers, environmental engineers, senior research assistants and computer scientists

SERIES: WILEY - IEEE

JUN 2013 • 384PP • 978-1-119-94339-6 • CL • €74.95

Biomedical Photoacoustic Imaging

Theory, Practice and Applications

PAUL BEARD & BENJAMIN T. COX

- ❖ Serves as a reference text suitable for newcomers to the field, explaining the underlying physical principles of photoacoustic imaging
- ❖ Discusses many potential applications in oncology, neurology and cardiovascular in both clinical diagnosis and basic research
- ❖ Offers material that could be used to supplement existing reading lists for courses on medical ultrasound imaging, medical imaging in general and courses used to train radiographers and clinical radiologists

READERSHIP: Postgraduate students, postdoctoral researchers, engineers and scientists in the medical imaging industry, clinicians, and life scientists

SERIES: A WILEY-SCIENCE WISE CO-PUBLICATION

MAY 2013 • 600PP • 978-1-118-03206-0 • CL • €99.50

Active and Passive Vibration Damping

AMR M. BAZ

University of Maryland, USA

- ❖ Features the written work of an internationally recognised authority and pioneer
- ❖ Presents a mix of associated physical fundamentals, governing theories and optimal design strategies of various configurations of vibration damping treatments
- ❖ Includes access to a companion website that contains MATLAB software, solutions to all problems, PowerPoint slides, supporting tools that enable hands-on experience of the analysis, design, optimisation, and application to a wide range of situations

READERSHIP: Researchers in vibration damping, research engineers in structural dynamics, practicing engineers in materials and mechanical engineering, and senior undergraduates and postgraduates in vibrations and vibrations damping

JUN 2013 • 492PP • 978-1-118-48192-9 • CL • €78.00

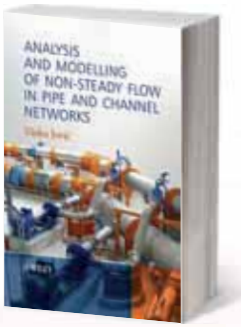
Biomedical
Signal
Processing
Using Matlab

Biowireless

Biomedical
Photoacoustic
Imaging

Active and
Passive
Vibration
Damping





Analysis and Modelling of Non-Steady Flow in Pipe and Channel Networks

VINKO JOVIC

University of Split, Croatia

- ❖ Presents the theory and practice of modelling different flows in hydraulic networks, with numerical solutions based on the finite element technique
- ❖ Features a systematic approach that addresses the topic from the fundamentals
- ❖ Includes access to a website containing the Simpip programme

READERSHIP: Engineers, practitioners and postgraduate students in civil, mechanical and environmental engineering
MAY 2013 • 552PP • 978-1-118-53214-0 • CL • €100.00



Nanoimprint Technology

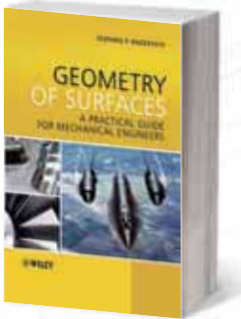
Nanotransfer for Thermoplastic and Photocurable Polymer

JUN TANIGUCHI

Tokyo University of Science, Japan

- ❖ Covers important basic knowledge on nanoimprint technology and applications
- ❖ Provides a thorough review of the state-of-the-art in nanotransfer technology
- ❖ Includes thorough coverage in the areas of nanoimprint and micro-contact printing

READERSHIP: Engineers, undergraduate and postgraduate students studying materials sciences, nanotechnology and mechanical engineering
SERIES: MICROSYSTEM AND NANOTECHNOLOGY SERIES (ME20)
JUN 2013 • 280PP • 978-1-118-35983-9 • CL • €87.50



Geometry of Surfaces

A Practical Guide for Mechanical Engineers

STEPHEN P. RADZEVICH

Principal Gear Engineer, USA

- ❖ Presents an in-depth analysis on the geometry of part surfaces and new developments in the elementary theory of enveloping surfaces
- ❖ Provides tools for solving complex engineering problems in the field of mechanical engineering
- ❖ Combines differential geometry and gearing theory

READERSHIP: Researchers and practitioners in the mechanical, automotive and aerospace engineering industries, CAD developers and postgraduate students in mechanical engineering
MAR 2013 • 264PP • 978-1-118-52031-4 • CL • €100.00



Advanced Structural Damage Detection

From Theory to Engineering Applications

TADEUSZ STEPINSKI

Uppsala University, Sweden

- ❖ Takes a multidisciplinary approach and provides a comprehensive review of main SHM techniques
- ❖ Presents real case studies and practical application of techniques for damage detection in different types of structures
- ❖ Offers both theoretical principles and feasibility studies of a number of SHM techniques
- ❖ Includes a number of new and novel data processing algorithms and demonstrates real operating prototypes

READERSHIP: Industry engineers, designers, manufacturers and postgraduate students in mechanical and civil engineering
JUN 2013 • 300PP • 978-1-118-42298-4 • CL • €90.00



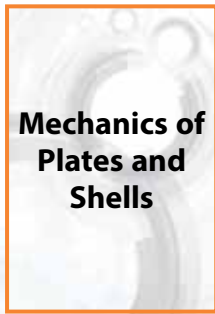
Mechanics of Plates and Shells

HOLM ALTENBACH & VICTOR EREMEYEV

Both of Otto-von-Guericke-Universität Magdeburg, Germany

- ❖ Analyses the most widely used methods and explains the foundation of the theories, especially the consequences following problem dimension reduction
- ❖ Covers advanced materials such as composites and functionally graded materials
- ❖ Uses examples to demonstrate the need for new and improved theories in advanced materials for rod, plate or shell-like structures

READERSHIP: Postgraduate students, researchers and practicing engineers in mechanical, aerospace and civil engineering
 JUN 2013 • 320PP • 978-1-119-94296-2 • CL • €81.25



**Mechanics of
Plates and
Shells**



Electromechanical Motion Systems

Design and Simulation

FREDERICK G. MORITZ

FM Systems, USA

- ❖ Covers both theory and practical information at an introductory level, allowing readers to advance to further topics
- ❖ Provides a connection between classic servo technology and the evolution of computer control and simulation
- ❖ Builds up from classic topics, facing their problems and advantages, through to design and simulation
- ❖ Includes VisSim demonstration material available on an accompanying website, enabling readers to experiment with system examples

READERSHIP: Electrical and mechanical systems design engineers, design engineers for control systems, sales and marketing personnel, engineering and company libraries, professors, postgraduate and advanced undergraduate students in mechanical engineering courses, and government labs
 JUN 2013 • 448PP • 978-1-119-99274-5 • CL • €86.50

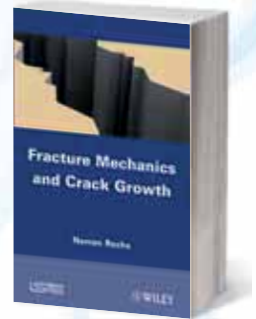


Fracture Mechanics and Crack Growth

N. RECHO

- ❖ Analyses mechanical fields close to material or geometrical singularities such as cracks
- ❖ Describes failure criteria and how it is established as a function of the singularity degrees related to these discontinuities

READERSHIP: Practitioners in the fields of engineering and materials science, mechanical engineering and failure fracture
 SERIES: ISTE
 FEB 2012 • 250PP • 978-1-848-21306-7 • CL • €212.00



Design and Analysis of Composite Structures

With Applications to Aerospace Structures

2nd Edition

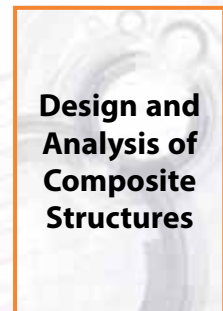
CHRISTOS KASSAPOGLOU

Delft University of Technology, The Netherlands

- ❖ Includes two new chapters on composite fittings, and the application and design of a composite panel
- ❖ Provides a toolkit of analysis and design methods to generate meaningful and robust designs of complex composite structures
- ❖ Includes solutions that can be used in optimisation schemes without having to run finite element models at each iteration
- ❖ Offers a complete set of lecture slides and solutions to the exercises hosted on a companion website for instructors

READERSHIP: Engineers and postgraduate students in aerospace, mechanical, civil and marine engineering
 SERIES: AEROSPACE SERIES
 APR 2013 • 400PP • 978-1-118-40160-6 • CL • €75.00

REPLACES ISBN: 978-1-600-86780-4



**Design and
Analysis of
Composite
Structures**



Aeroelasticity using the Finite Element Method



Aeroelasticity using the Finite Element Method

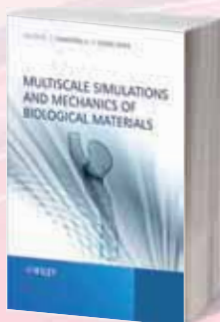
ERASMO CARRERA, MARCO PETROLO, ALBERTO VARELLO & ENRICO ZAPPINO

All of Politecnico di Torino, Italy

- ❖ Formulates and describes the details of coupling between finite elements and classical aerodynamic theories
- ❖ Proposes advanced 1D and 2D structural FE models in a form similar to the formulation used in classical beam, plate and shell theories that permit exploration of aeroelastic phenomena not considered by classical theories
- ❖ Discusses classical aeroelasticity problems related to wings and panels

READERSHIP: Researchers in continuum mechanics of solids and structures, structural analysts in industry, and undergraduate and postgraduate students in civil, mechanical and aerospace engineering

JUN 2013 • 300PP • 978-1-118-33785-1 • CL • €87.95



Multiscale Mechanics and Mechanics of Biological Materials

SHAOFAN LI

University of California, USA

- ❖ Offers a unique interdisciplinary approach to multiscale biomaterial modelling aimed at both accessible introduction and advanced levels
- ❖ Presents a breadth of computational approaches for modelling biological materials across multiple length scales, from molecular to whole-tissue scale, including solid and fluid based approaches
- ❖ Features the works of contributors that are among the most active researchers in multiscale simulations

READERSHIP: Postgraduates, professors and researchers in bio-mechanics, bioengineering and medicine, nano-mechanics, and computational mechanics, as well as industry professionals and researchers working in materials science and biological chemistry

MAR 2013 • 488PP • 978-1-118-35079-9 • CL • €87.50

Numerical Calculation of Lubrication



Numerical Calculation of Lubrication

Methods and Programs

PING HUANG

University of Technology, China

- ❖ Provides numerical solution methodologies including appropriate software for hydrodynamic and elasto-hydrodynamic lubrication of bearings
- ❖ Offers a clear introduction and orientation to all major engineering lubrication problems and their solutions
- ❖ Presents numerical programmes for specific applications in engineering, with special topics including grease lubricated bearings and gas bearings
- ❖ Equips those working in tribology and those new to the topic with the fundamental tools of calculation

READERSHIP: Postgraduate and senior undergraduate students in tribology and mechanical engineering courses, engineers and researchers in thin-film fluid mechanics

JUN 2013 • 450PP • 978-1-118-45119-9 • CL • €100.00

Modeling Electrokinetic Phenomena in Micro- and Nanofluidic Technology

Modeling Electrokinetic Phenomena in Micro- and Nanofluidic Technology

SHIZHI QIAN & SANG W. JOO

- ❖ Provides a comprehensive understanding of basic electrokinetic phenomena, corresponding mathematical models, and detailed recipes to simulate them
- ❖ Includes the most recent results on modelling electrokinetic phenomena in micro and nanofluidic technology
- ❖ Offers references that have been recently peer-reviewed in journal papers

READERSHIP: Postgraduate students and researchers in the areas of nanotechnology, mechanical engineering, micro and nanofluidics, heat transfer, thermal management, transport phenomena, and colloid science at universities, and industrial and government labs

MAY 2013 • 400PP • 978-0-470-62035-9 • CL • €90.50

Aircraft Systems Integration of Air-Launched Weapons

KEITH A. RIGBY

BAE Systems Military Air Solutions

- ❖ Collates a wide range of topics on weapons integration that is not currently covered in published literature, providing essential reading for aircraft systems engineers
- ❖ Covers all of the fundamental issues including the use of GPS to extend the effectiveness of older airframes e.g. B-52, interoperability within NATO countries, and the challenge of the design of autonomous platforms carrying weapons as part of unmanned aircraft systems
- ❖ Builds knowledge and experience quicker than would be gained on a real integration programme

READERSHIP: Weapons engineers and researchers, postgraduate students in weapons engineering, project managers, concepts designers and systems engineers

SERIES: AEROSPACE SERIES

MAY 2013 • 272PP • 978-0-470-97118-5 • CL • €81.50



Introduction to Soil Mechanics

BÉLA BODÓ & COLIN JONES

BSc BA MICE - retired geotechnical engineer; retired from the University of Wales, Newport where he was Programme Director for the Civil Engineering provision specialising in the area of Soil Mechanics and Geotechnics

- ❖ Provides full coverage of the fundamental soil mechanics and Eurocode7 with examples and problems
- ❖ Features a large collection of student problems

READERSHIP: Undergraduate students of civil engineering

APR 2013 • 400PP • 978-0-470-65943-4 • PR • €29.99

**Introduction
to Soil
Mechanics**



Structural Analysis and Design

PETER MARTI

Swiss Federal Institute of Technology in Zurich, Switzerland

- ❖ Emphasises on practical construction over calculation
- ❖ Features chapters with examples and exercises on engineering practice

READERSHIP: Civil engineers, engineering consultants, test engineers, technical colleges, and universities of applied sciences, and university libraries

JAN 2013 • 750PP • 978-3-433-02991-6 • CL • €80.00

**Structural
Analysis and
Design**

Formal Methods

Industrial Used from Model to the Code

JEAN-LOUIS BOULANGER

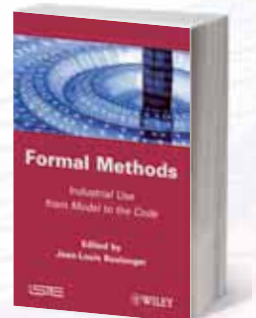
Independent Safety Assessor

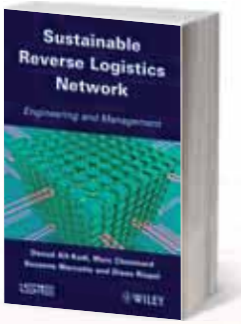
- ❖ Presents feedback from the use of "formal methods" such as proof and model-checking, and in industrial examples within the transportation domain
- ❖ Covers the topics of SAET-METEOR, the B method and B tools, model-based design using Simulink, the Simulink design verifier proof tool, the implementation and applications of Safety Critical Application Development Environment (SCADE), GATeL: A V&V Platform for SCADE models and ControlBuild
- ❖ Provides first-hand experience of people who are currently involved in the creation and evaluation of safety critical system software

READERSHIP: Practitioners in the fields of engineering and materials science, industrial engineering, and general industrial engineering

SERIES: ISTE

MAY 2012 • 978-1-848-21362-3 • CL • €125.00





Sustainable Reverse Logistics Network

Engineering and Management

DAOUD AÏT-KADI, MARC CHOUINARD, SUZANNE MARCOTTE & DIANE RIOPEL

Laval University, Canada; Laval University, Canada; Ecole des Sciences de la Gestion, UQÀM, Montréal, Canada; Ecole polytechnique de Montréal, Canada

- ❖ Discusses a value creation network integrating recovery, processing, recycling, distribution and clean removal processes
- ❖ Supplies an educational tool for engineering schools, as well as a management tool for the efficient implementation of the reverse logistics function
- ❖ Proposes generic concepts and processes that can be adapted to all businesses, and ones that aim to integrate reverse logistics

READERSHIP: Practitioners in the fields of engineering and materials science, industrial engineering and manufacturing

SERIES: ISTE

FEB 2012 • 978-1-848-21310-4 • CL • €109.00



Industrial Use of Formal Methods

Formal Verification

JEAN-LOUIS BOULANGER

Independent Safety Assessor

- ❖ Gives an explanation of formal techniques, which is less general than current available literature
- ❖ Features the experiences of people who are involved in the realisation and evaluation of software-based safety critical systems
- ❖ Presents "formal techniques" (such as proof and model-checking) on industrial examples for the transportation domain

READERSHIP: Practitioners in the fields of engineering and materials science, industrial engineering and general industrial engineering

SERIES: ISTE

978-1-848-21363-0 • CL • €125.00



Power Electronics and Energy Conversion Systems

Volume 1: Fundamentals and Hard-switching Converters

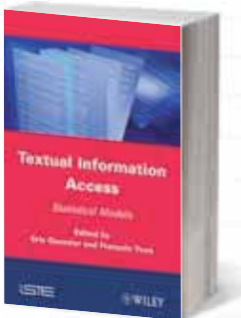
ADRIAN IOINOVICI

Holon Institute of Technology, Israel and Sun Yat-Sen University, China

- ❖ Summarises DC-to-DC converters in a reference that is accessible for researchers and designers working with power circuits
- ❖ Presents previously unpublished advancements in hard-switching converters including gallium nitride transistors, VRMs for microprocessors, and interleaving for reduced electromagnetic interference
- ❖ Includes the latest technology covered in senior undergraduate and postgraduate courses
- ❖ Offers access to a companion website with PowerPoint slides

READERSHIP: Senior undergraduate and postgraduate electrical engineering students in power electronics, practicing engineers, researchers and designers using power electronics circuits, aerospace, consumer electronics and renewable energy, power supply designers, procurement and engineering managers

FEB 2013 • 872PP • 978-0-470-71099-9 • CL • €90.95



Textual Information Access

Statistical Models

E. GAUSSIER

Grenoble Informatics Laboratory, France

- ❖ Presents statistical models that have recently been developed within several research communities to access information contained in text collections
- ❖ Focuses on the probability models used in information extraction and retrieval, text classification and clustering, opinion mining, and comprehension aids
- ❖ Revolves around the four themes of informational retrieval and ranking models, classification and clustering, multilingualism and machine translation, and emerging applications such as information exploration

READERSHIP: Practitioners in the fields of computing, computer science and information technologies

SERIES: ISTE

APR 2012 • 448PP • 978-1-848-21322-7 • CL • €152.00

Cyber Conflict

Competing National Perspectives

DANIEL VENTRE

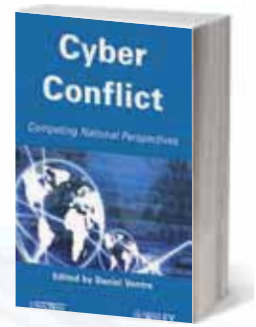
CESDIP Laboratory

- ❖ Features the written works of researchers and experts in the fields of cyber security, cyber defense and information warfare
- ❖ Dedicates studies to describing various countries' application of information warfare principles, both in terms of global development and "local" usage and examples
- ❖ Analyses the processes of information warfare and cyber warfare through historical, operational and strategic perspectives of cyber attack

READERSHIP: Practitioners in the fields of computing, computer science and information technologies

SERIES: ISTE

APR 2012 • 352PP • 978-1-848-21350-0 • CL • €125.00



Scalable Computing and Communications

Theory and Practice

SAMEE U. KHAN, ALBERT Y. ZOMAYA & LIZHE WANG

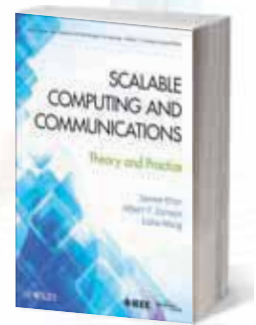
North Dakota State University, USA; University of Western Australia, Australia

- ❖ Includes chapters on cutting-edge topics in scalable computing and communications such as green communication, next generation networking and network-on-chip paradigms
- ❖ Features the works of internationally recognised researchers with chapters on basic concepts, software infrastructure and middleware, as well as applications and systems
- ❖ Incorporates case studies to illustrate concepts

READERSHIP: Researchers, engineers, and IT professionals who work in the fields of scalable computing, and postgraduate students taking courses in computer science, computer engineering and IT

SERIES: WILEY SERIES ON PARALLEL AND DISTRIBUTED COMPUTING

FEB 2013 • 896PP • 978-1-118-16265-1 • CL • €96.95



Risk Communication

A Handbook for Communicating Environmental, Safety, and Health Risks
5th Edition

REGINA E. LUNDGREN

Pacific Northwest National Laboratory

- ❖ Includes a new chapter on social media for risk communication e.g. blogging, video and image sharing, and public health campaigns
- ❖ Features new real life examples including the Japanese Tsunami, Hurricane Irene and the Gulf oil disaster
- ❖ Presents the topic on risk communication in a highly accessible, understandable language and format
- ❖ Combines scientific research with hands-on advice from risk practitioners with more than 20 years experience in the field

READERSHIP: Practitioners, including scientists handling risk assessments, land use planners, health care practitioners and agencies, communication specialists, pharmaceutical and biotechnology firms, federal agencies, consumer product firms, and agribusinesses

JUN 2013 • 400PP • 978-1-118-45693-4 • PR • €56.95

REPLACES ISBN: 978-0-470-41689-1

Digital Color

Acquisition, Perception, Coding and Rendering

CHRISTINE FERNANDEZ-MALOIGNE, FREDERIQUE ROBERT-INACIO & LUDOVIC MACAIRE

Poitiers University, France; ISEN, France; Lille 1 University, France

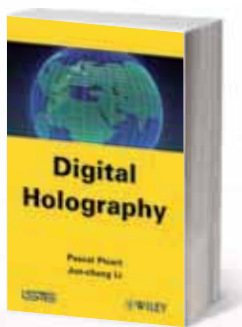
- ❖ Identifies basic concepts and recent advances in the acquisition, perception, coding and rendering of colour
- ❖ Addresses the fundamental aspects related to the science of colourimetry in relation to physiology, consistency, and colour appearance
- ❖ Focuses on technical aspects related to sensors, colour management screen, colour rendering in computer graphics and the coding, compression, protection and quality of colour images and videos

READERSHIP: Researchers, engineers, postgraduate and PhD students involved in digital colour, computing, and computer graphics

SERIES: ISTE

APR 2012 • 336PP • 978-1-848-21346-3 • CL • €125.00





Digital Holography

PASCAL PICART & JUN-CHANG LI

Université du Maine-Ecole Nationale Supérieure d'Ingénieurs du Mans, France; Kunming University of Sciences and Technologies, China

- ❖ Reveals the mathematical basics and linear filtering theory of digital holography
- ❖ Describes the fundamentals of the diffraction theory and exhaustively describes the numerical computation of diffracted fields using FFT algorithms
- ❖ Contains a chapter devoted to digital holographic interferometry with common applications

READERSHIP: Practitioners in computing, and computer graphics

SERIES: ISTE

FEB 2012 • 978-1-848-21344-9 • CL • €125.00



Fast-Tracking Your Career

Soft Skills for Engineering & IT Professionals

W. CHOU

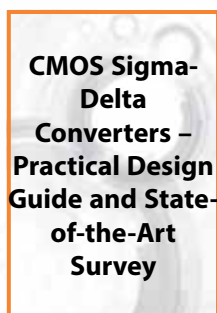
North Carolina State University, USA

- ❖ Identifies 11 core skills, which are crucial in fast-tracking your career
- ❖ Deals with a core skill and simple ways to master that skill in each chapter
- ❖ Contains 120 real life examples that scenarios engineers will come across in their day-to-day job
- ❖ Answers questions like, "How do I gain a customer's trust with enthusiasm?" and "How do I successfully network in an efficient way?"

READERSHIP: Engineers, IT professionals, and technical professionals

SERIES: IEEE PCS PROFESSIONAL ENGINEERING COMMUNICATION SERIES

MAY 2013 • 224PP • 978-1-118-52178-6 • PR • €33.50



CMOS Sigma-Delta Converters – Practical Design Guide and State-of-the-Art Survey

DR JOSÉ DE LA ROSA & DR ROCÍO DEL RÍO

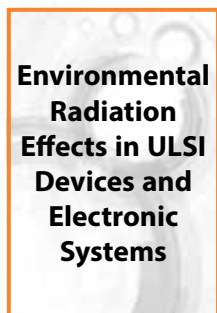
Both of University of Seville, Spain

- ❖ Offers a complete survey of sigma-delta converter modulator architectures from fundamentals to state-of-the art topologies
- ❖ Illustrates design issues at system level modelling in the MATLAB/SIMULINK environment and circuit-level implementation in Cadence
- ❖ Includes practical examples using MATLAB-based "SIMSIDES" (SIMulink Sigma-Delta Simulator) that are hosted on a companion website

READERSHIP: Researchers and electronics engineering practitioners interested in the design of high-performance data converters integrated in nanometer CMOS technologies, mixed-signal designers, and electrical engineering undergraduates and postgraduates

SERIES: WILEY - IEEE

APR 2013 • 432PP • 978-1-119-97925-8 • CL • €69.50



Environmental Radiation Effects in ULSI Devices and Electronic Systems

EISHI H. IBE

Hitachi, Ltd, Japan

- ❖ Presents faults and failures induced by wide variety of radiation fields including electrons, alpha-rays, muons, gamma rays, neutrons and heavy ions
- ❖ Provides an understanding of how electronic systems are shut down due to environmental radiation by constructing physical models and numerical algorithms
- ❖ Covers both terrestrial and avionic-level conditions
- ❖ Includes source code samples in the companion website, and a detailed background information of various modelling techniques in each chapter

READERSHIP: Researchers and postgraduates in nuclear and space radiation, semiconductor physics and electron devices, and other areas of applied physics modelling, and general readers

JUN 2013 • 400PP • 978-1-118-47929-2 • CL • €TBA



Global Navigation Satellite Systems, Inertial Navigation, and Integration

3rd Edition

MOHINDER S. GREWAL, ANGUS P. ANDREWS & CHRIS G. BARTONE

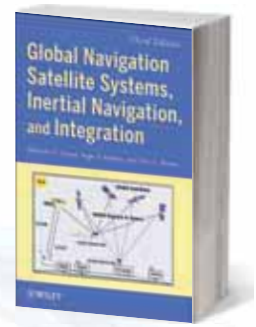
California State University at Fullerton, USA; Rockwell Science Center, USA; Ohio University, USA

- ❖ Addresses state-of-the art integration techniques for global navigation satellite systems and inertial navigational systems
- ❖ Focuses on Kalman filtering and its applications to GPS/INS in one volume
- ❖ Includes a solutions manual for instructors and a software that demonstrates Kalman filter algorithms with GNSS and INS data sets

READERSHIP: Senior undergraduates, postgraduates, researchers and practitioners in control engineering

MAR 2013 • 584PP • 978-1-118-44700-0 • CL • €80.50

REPLACES ISBN: 978-0-470-04190-1



Operator-based Nonlinear Control Systems Design and Applications

MINGCONG DENG

Tokyo University of Agriculture and Technology, Japan

- ❖ Uses operator-theoretic approach
- ❖ Includes coloured images of systems that are downloadable from book landing page
- ❖ Covers the application of operator-theoretic approach on network controlled systems also known as vibration control systems

READERSHIP: Nonlinear system control theorists, practicing control system design engineers and theory engineers, applied mathematicians and postgraduate students in control systems engineering

SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

JUN 2013 • 300PP • 978-1-118-13122-0 • CL • €66.95

Operator-based
Nonlinear
Control
Systems
Design and
Applications

Electromagnetic Simulation Using the FDTD Method

2nd Edition

DENNIS M. SULLIVAN

University of Idaho, USA

- ❖ Organises information in a tutorial fashion, starting with the simplest programmes and guiding the reader up to complex, three-dimensional programmes
- ❖ Provides the foundation for learning the FDTD method in the first four chapters
- ❖ Substantiates chapter five with information on new applications, including the FDTD method used in the design and analysis of highly resonant radio frequency coils that are often also used for MRI
- ❖ Includes MATLAB and C programming languages downloadable from the book support site

READERSHIP: Professional engineers, as well as undergraduate and postgraduate engineering students

MAY 2013 • 256PP • 978-1-118-45939-3 • CL • €60.50

REPLACES ISBN: 978-0-780-34747-2

Electromagnetic
Simulation
Using the FDTD
Method

Laser in Manufacturing

J. PAULO DAVIM

University of Aveiro, Portugal

- ❖ Addresses the fundamentals and recent research advances in LASER in manufacturing
- ❖ Focuses on an emerging area with a wide variety of applications, including electronics, moulds and dies, and biomedical applications
- ❖ Includes information on laser drilling, cutting, machining, welding, ablation, converting, engraving, microjet, dressing, rapid prototyping, micro/nano manufacturing, surface modification, and cladding
- ❖ Features contributions from experts with vast experience in academia and research in manufacturing, materials and mechanical engineering with special emphasis in machining and tribology

READERSHIP: Undergraduates, postgraduates, academics, manufacturing researchers, mechanical, materials and manufacturing engineers, and all professionals in related fields of LASER manufacturing

SERIES: ISTE

MAR 2012 • 978-1-848-21369-2 • CL • €125.00



Guide to State-of-the-Art Electron Devices



Guide to State-of-the-Art Electron Devices

J. N. BURGHARTZ

Institute for Microelectronics Stuttgart, Germany

- ❖ Includes information on a full range of electron device types such as photovoltaic devices, semiconductor manufacturing and VLSI technology and circuits, covered by IEEE Electron and Devices Society (EDS)
- ❖ Features the works contributed by internationally respected members of the electron devices community
- ❖ Serves as a timely desk reference with fully-integrated colour and a unique layout with sidebars to highlight the key terms
- ❖ Discusses historical developments and future trends to give a more rounded picture of the topics covered

READERSHIP: Present and potential new members of the IEEE Electron Device Society (EDS), R&D managers, engineers in the semiconductor industry, applied scientists, circuit designers, and professors and postgraduate students

SERIES: WILEY - IEEE

MAR 2013 • 344PP • 978-1-118-34726-3 • CL • €28.50

Incremental Learning in Intelligent Systems

Incremental Learning in Intelligent Systems

SEIICHI OZAWA, SHAONING PANG & NIKOLA KASABOV

- ❖ Serves as the first book that covers both single task and multiple task incremental learning, which will become one of the key technologies in the machine learning fields
- ❖ Provides thorough coverage of increment learning theories and practical applications including pattern recognition, time-series prediction, outlier detection, adaptive robotics, bioinformatics, and biomedical diagnosis
- ❖ Helps readers develop new learning theories and algorithms and to build new intelligent systems
- ❖ Features the works of renowned international experts from Japan, South Korea and New Zealand

READERSHIP: Researchers and postgraduate students in machine learning, pattern recognition, data mining and knowledge engineering

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

APR 2013 • 350PP • 978-0-470-87917-7 • CL • €76.95

Imbalanced Learning

Imbalanced Learning

Foundations, Algorithms, and Applications

HAIBO HE & YUNQIAN MA

University of Rhode Island, USA; Honeywell Labs

- ❖ Serves as the first comprehensive book on imbalanced learning with contributions from industry experts and academia
- ❖ Provides a critical review of state-of-the-art techniques, as well as the principles and foundation of imbalanced learning
- ❖ Illustrates critical applications of imbalanced learning in real-world problems

READERSHIP: Professionals in machine intelligence and machine learning, industrial researchers and R&D engineers, postgraduate students in electrical engineering, machine learning, data mining, and computational intelligence

APR 2013 • 300PP • 978-1-118-07462-6 • CL • €80.00

Type-2 Fuzzy Logic Control

Type-2 Fuzzy Logic Control

Introduction to Theory and Applications

JERRY MENDEL

University of Southern California, USA

- ❖ Includes experiment and simulation results, as well as computer programmes that can be downloaded
- ❖ Provides background information and application of type-2 fuzzy logic with extensive literature survey
- ❖ Discusses the scope of research questions

READERSHIP: Conventional or fuzzy control systems researchers and practitioners in industry ranging from automotive to consumer electronics to biomedicine, and undergraduates and postgraduates

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

MAY 2013 • 384PP • 978-1-118-27839-0 • CL • €66.95

Complex-Valued Neural Networks

Advances and Applications

AKIRA HIROSE

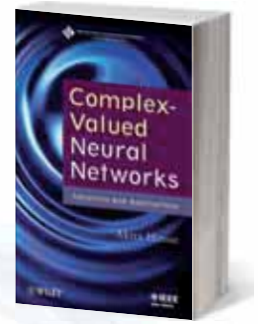
University of Tokyo, Japan

- ❖ Demonstrates the advanced theories of Complex-Valued Neural Networking through a wide range of applications
- ❖ Covers information on conventional Complex-Valued Neural Networks, Quaternionic Neural Networks and Clifford-Algebraic Neural Networks

READERSHIP: Advanced level computational intelligence theorists, mathematicians interested in computational intelligence, artificial intelligence, machine learning theories and algorithms, as well as electromagnetic theorists

SERIES: IEEE PRESS SERIES ON COMPUTATIONAL INTELLIGENCE

MAR 2013 • 320PP • 978-1-118-34460-6 • CL • €83.50



Flight Formation Control

JOSEF GUERRERO & ROGELIO LOZANO

Universitat Politècnica de Catalunya

- ❖ Helps students and academics to better understand coordination and flight formation control
- ❖ Develops robust consensus strategies and distributed formation control for multi-UAV systems

READERSHIP: Students and practitioners in the fields of engineering and materials science, electrical and electronics engineering, intelligent systems and agents, and robotics

SERIES: ISTE

FEB 2012 • 978-1-848-21323-4 • CL • €125.00



Medical Robotics

JOCELYNE TROCCAZ

- ❖ Focuses on the design and control of medical robots

- ❖ Offers a broad view of the domain of medical robotics, the keys to evolution in the field of medical robots and the preparation for the future of medical robotics

- ❖ Presents the evolution of medical robotics over three decades in terms of architecture, design and control, and the main scientific and clinical contributions to the field of medical robotics

READERSHIP: Practitioners and students in the fields of engineering and materials science, electrical and electronics engineering, intelligent systems and agents, and robotics

SERIES: ISTE

JAN 2012 • 978-1-848-21334-0 • CL • €169.00



Advanced Dynamic-system Simulation

Model-replication Techniques with DESIRE

2nd Edition

GRANINO A. KORN

University of Arizona, USA

- ❖ Features works written by the leading engineer who created DESIRE, which is useful for applications in computer science, finance and environmental science
- ❖ Provides instructions on how to implement modern simulation software such as DESIRE
- ❖ Includes two new chapters on Neural Networks, as well as an open-source software CD, which contains 200 example programmes that readers can edit and use in experiments

READERSHIP: Computer scientists and engineers, upper level undergraduate and postgraduate students in engineering and computer science who are using the DESIRE software

APR 2013 • 250PP • 978-1-118-39735-0 • CL • €73.50

Advanced
Dynamic-
system
Simulation



Contemporary Issues in Systems Science and Engineering

Contemporary Issues in Systems Science and Engineering

MENGCHU ZHOU, HAN-XIONG LI & MARGOT WEIJNEN

City University of Hong Kong, China; Delft University of Technology, The Netherlands

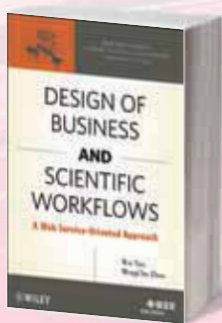
- ❖ Includes 27 chapters based on different discrete events, complete with discussions and conclusions
- ❖ Features works contributed by world-renowned systems engineers
- ❖ Enables readers to grasp each event holistically without getting into detailed engineering knowledge

READERSHIP: Systems engineers, systems or sub-systems designers; and mechanical, electrical and industrial engineers

SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

MAY 2013 • 800PP • 978-1-118-27186-5 • CL • €99.50

REPLACES ISBN: 978-1-118-15234-8



Design of Business and Scientific Workflows

A Web Service-Oriented Approach

HUAMIN ZHOU

- ❖ Presents updated research and development results on the composition technologies of web services for sophisticated service requirements from various users and communities
- ❖ Includes fundamental methods such as Petri nets and social network analysis to advance the theory and applications of workflow design and web service composition
- ❖ Covers practical and real applications of platforms such as personalised healthcare and Biomedical Informatics Grid

READERSHIP: Systems engineers, project managers, enterprise architects, and software developers of enterprise software

SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

APR 2013 • 200PP • 978-1-118-17133-2 • CL • €80.50



Designing High Availability Systems

Designing High Availability Systems

DFSS and Classical Reliability Techniques with Practical Real Life Examples

S. RANGANATHAN

- ❖ Features the works of authors who are experts in designing and delivering high availability systems with various experiences in industrial and defence industries
- ❖ Presents real life design and analysis, and ways in which to effectively integrate various design and analysis tools such as six sigma, failure analysis, and reliability analysis
- ❖ Includes MATLAB codes that can be downloaded to recreate problem sets presented in the book, as well as PowerPoint slides that outline the problem solving processes

READERSHIP: Systems engineers, software and hardware corporate architects and Six Sigma black belts

MAY 2013 • 390PP • 978-1-118-55112-7 • CL • €60.50

A Value Approach to Product and Systems Development

A Value Approach to Product and Systems Development

S. I. WEISS

- ❖ Integrates the technical, productivity, and user elements in product and system development
- ❖ Presents the results of over twenty years' of research and practice at the Stanford Center for Professional Development
- ❖ Contains numerous illustrations, case studies, and online material

READERSHIP: Postgraduate students in aerospace, mechanical, civil, electrical, and material engineering, and management science and engineering, as well as practicing engineers and medical product developers

MAY 2013 • 250PP • 978-1-118-33154-5 • CL • €63.50

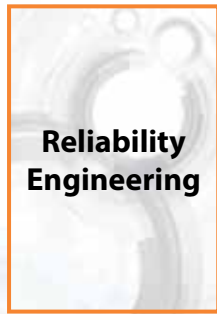
Reliability Engineering

KAILASH C. KAPUR

University of Washington, USA

- ❖ Provides problems and solutions manual, and class-tested materials
- ❖ Helps readers set guiding principles that can be used to design and manage reliability programmes for the contemporary world
- ❖ Teaches readers to design process capability, considering potential failure modes, sites and mechanisms obtained from the physics of failure, analysis, and life cycle profile
- ❖ Explains how to integrate reliability methods and techniques in the Six Sigma process and design

READERSHIP: Professionals interested in the practical aspects of reliability, upper undergraduate and postgraduate students in related fields, safety and supportability teams; and university and company libraries
SERIES: WILEY SERIES IN SYSTEMS ENGINEERING AND MANAGEMENT
OCT 2012 • 480PP • 978-1-118-14067-3 • CL • €93.50



Reliability Engineering

An Introduction to Nuclear Materials

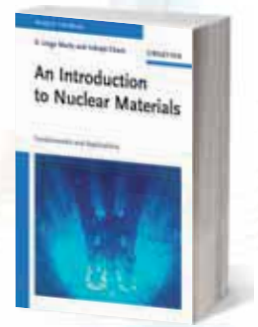
Fundamentals and Applications

K. LINGA MURTY & INDRAJIT CHARIT

Both of North Carolina State University, USA

- ❖ Covers both fundamental and advanced aspects of nuclear materials beginning with an overview of nuclear reactor systems, to help familiarise readers with varied designs
- ❖ Presents sophisticated concepts of nuclear materials in a lucid and accessible manner, and emphasises recent developments and outstanding problems in the subject
- ❖ Includes a summary and recommended references and problems in each chapter, as well as an appendix that contains useful property data relevant for nuclear reactor applications

READERSHIP: Postgraduate and undergraduate students, nuclear physicists, practitioners in the nuclear industry, engineers in power technology, and libraries
DEC 2012 • 398PP • 978-3-527-41201-3 • CL • €129.00



Locational Marginal Pricing (LMP) in Electricity Markets

Locational Marginal Pricing (LMP) in Electricity Markets

ZUYI LI

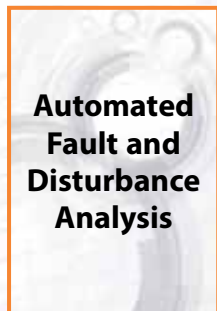
Global Energy Markets Solutions, USA

- ❖ Presents a detailed and in-depth introduction to the economic and technical foundations of modern electricity markets operating with locational marginal price (LMP), the key to understanding today's market operation
- ❖ Covers the important topics of transmissions and financial transmission rights, planning issues, and the relation to renewable sources
- ❖ Includes various illustrative examples and end-of-chapter problems for use as homework exercises
- ❖ Provides access to a companion website that links to the author's own page filled with further research in power markets and LMP, class projects, MATLAB codes and a solutions manual

READERSHIP: Senior undergraduate and postgraduate students in electrical power engineering, smart grid and renewable energy, and practicing engineers and analysts in power utilities and independent system operators

SERIES: WILEY - IEEE

MAY 2013 • 350PP • 978-1-118-35942-6 • CL • €69.50



Automated Fault and Disturbance Analysis

Automated Fault and Disturbance Analysis

Smart Analysis for Smart Grids

MLADEN KEZUNOVIC

Texas A&M University, USA

- ❖ Introduces general concepts of faults and disturbances in power systems
- ❖ Describes how the 2018 intelligent systems technology can be successfully implemented to automate analysis of extensive data sets
- ❖ Assesses benefits of automation e.g. improved data collection, enhanced risk management capabilities, reliable decision making
- ❖ Provides a useful guide for utility engineers needing to automate their processes, presenting systems design and discussing deployment strategies

READERSHIP: Practicing engineers and utility managers in the power distribution industries, as well as senior undergraduates and postgraduates in power engineering, control and communications technologies
JUN 2013 • 300PP • 978-1-118-09726-7 • CL • €80.00

Extruded Cables for High Voltage Direct Current Transmission

Extruded Cables for High Voltage Direct Current Transmission

Advances in Research and Development

GIOVANNI MAZZANTI & MASSIMO MARZINOTTO

University of Bologna, Italy; Terna S.p.A, Italy

- ❖ Covers the fundamentals of HVDC cable transmission theory, HVDC cable design and insulation material and engineering
- ❖ Contains 100 images, including 30 black and white photo images
- ❖ Demonstrates the capabilities of life modelling i.e. how long the cable should last

READERSHIP: Power electric engineers specialising in high power cable engineering, high power cable manufacturers and insulation material engineers

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

JUN 2013 • 480PP • 978-1-118-09666-6 • CL • €83.50

Fundamentals and Application of Lithium-ion Battery Management in Electric Drive Vehicles

Fundamentals and Application of Lithium-ion Battery Management in Electric Drive Vehicles

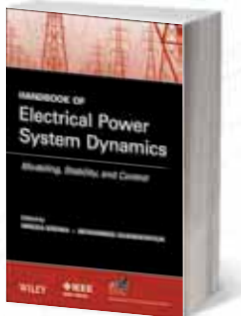
EDITED BY SAN PING JIANG

Curtin University of Technology, Australia

- ❖ Serves as a theoretical and technical guide to the electric vehicle lithium-ion battery management system
- ❖ Uses simulation technology, schematic diagrams and case studies to explain and offer detailed analysis of battery charge and discharge control principles
- ❖ Equips the reader with the understanding and concept of the power battery, providing a clear cognition of the application and management of lithium-ion batteries in electric vehicles
- ❖ Provides readers with a complete collection of case studies

READERSHIP: Researchers and professionals working in energy technologies, utility planners and system engineers, and postgraduate engineering students

JUN 2013 • 300PP • 978-1-118-41478-1 • CL • €95.00



Handbook of Electrical Power System Dynamics: Modeling, Stability, and Control

M. EREMIA

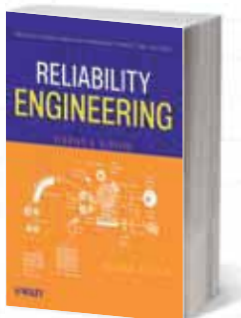
University "Politehnica" of Bucharest, Romania

- ❖ Includes over 600 figures and 1,200 equations to support new algorithms and theories on modelling, control and stability assessment
- ❖ Features the contributions of world-class experts from both academia and industry
- ❖ Covers information on alternative energy systems i.e. wind & solar

READERSHIP: Smart grid and power electric systems engineers and analysts, and postgraduate students

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

MAR 2013 • 1008PP • 978-1-118-49717-3 • CL • €96.95



Reliability Engineering

2nd Edition

ELSAYED A. ELSAYED

- ❖ Includes the computer software, Reliability Analysis Software2122, that provides useful tools for reliability estimation, failure time distributions, and a wide range of accelerated life models
- ❖ Offers problems at the end of each chapter and engineering examples to illustrate its application
- ❖ Features class-tested material at world-renowned reliability engineering programme at Rutgers University

READERSHIP: Senior undergraduates and postgraduate students in industrial and systems, mechanical, and electrical engineering programmes, as well as courses in life data analysis and statistics

SERIES: WILEY SERIES IN SYSTEMS ENGINEERING AND MANAGEMENT

JUN 2012 • 792PP • 978-1-118-13719-2 • CL • €129.00

Plug-In Vehicles – Grid Integration and Operations

GANESH KUMAR VENAYAGAMOORTHY & AHMED Y. SABER

Both of Missouri University of Science and Technology, USA

- ❖ Describes the integration of plug-in hybrid vehicles as an important part of a smart grid
- ❖ Presents the facts that emission from the power system and the transportation sector are the main factors of global warming
- ❖ Shows the amount of emission reduction from power system and the transportation sector with optimisation models
- ❖ Suggests that the reduction of electricity cost is possible by intelligently controlling and scheduling plug-in vehicles in a smart grid

READERSHIP: Power system engineers, industry professionals and researchers in power systems, plug-in vehicles, smart grid and the transportation sector

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

MAY 2013 • 400PP • 978-1-118-16809-7 • CL • €66.95

The Selection Process of Biomass Materials for the Production of Bio-Fuels and Co-firing

N. ALTAWELL

- ❖ Provides vital, ample, accurate and detailed data of a number of energy crops and their use by scientists working for energy generating company
- ❖ Tackles the selection issue related to biomass materials and the production of a new hybrid biofuel
- ❖ Includes the basics of biofuel and biofuels co-firing
- ❖ Introduces a useful matrix that includes not only technical and scientific factors, but also business factors such as environmental and human health factors

READERSHIP: Engineers, researchers, businessmen and economists who are involved in the renewable energy and biomass energy fields

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

JUN 2013 • 350PP • 978-1-118-54266-8 • CL • €83.50

Electrothermics

JAVAD FOULADGAR

University of Nantes, France

- ❖ Focuses primarily on the analysis and design of induction heating of poor electrical conduction materials
- ❖ Studies the innovative applications of inductive plasma installation or transformers, thermo inductive non-destructive testing and carbon-reinforced composite materials heating
- ❖ Features tested and validated experimental models
- ❖ Contains chapters about mathematical tools for coupled electromagnetic and thermal phenomena, radio frequency inductive plasma installation, low frequency plasma transformers, the feasibility of the thermo inductive technique for non-destructive testing, and the use of induction heating in the lifecycle of carbon-reinforced composite materials

READERSHIP: Practitioners and students in the fields of engineering and materials science, electrical and electronic engineering, and electronic materials

SERIES: ISTE

MAR 2012 • 978-1-848-21242-8 • CL • €125.00

Smart Sensor Systems

Emerging Technologies and Applications

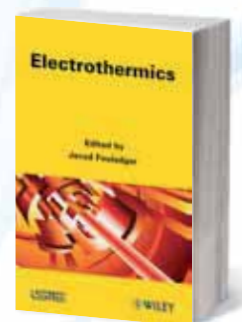
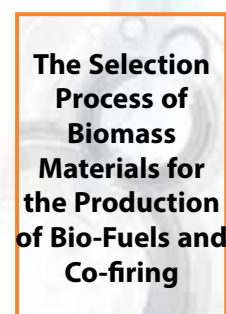
GERARD C. M. MEIJER

SensArt, The Netherlands

- ❖ Complements *Smart Sensor Systems*, published in Sept 2008, in both contents and scope with added practical applications
- ❖ Gives detailed coverage of sensor principles and characterisation, measurement techniques and, signal and data processing techniques as applied in smart sensor systems
- ❖ Includes access to a supplementary website that hosts case studies and solutions to the problems in the book

READERSHIP: Engineers and scientists involved in the design and application of sensor systems, R&D departments and laboratories of industrial companies and research institutes, and senior undergraduates and postgraduates

MAY 2013 • 312PP • 978-0-470-68600-3 • CL • €69.50





IPv6 Deployment and Management

TIMOTHY ROONEY

- ❖ Serves as a guide for readers to learn IPv6, understand the implications of deploying and not deploying IPv6, how to go about creating a plan to deploy IPv6, and how to deploy and manage IPv6 within an IPv4 network
- ❖ Features a guest introduction from Vint Cerf, a renowned computer scientist

READERSHIP: IP network engineers and managers in the information technology field, network engineering and operations organisations
 SERIES: IEEE PRESS SERIES ON NETWORK MANAGEMENT
 MAR 2013 • 256PP • 978-1-118-38720-7 • PR • €50.50



Real-Time Embedded Systems

JIACUN WANG

Monmouth University, USA

- ❖ Teaches readers how to programme an embedded computer, design for reliability and incorporate design patterns aimed especially at embedded systems development with reading suggestions
- ❖ Includes a chapter on practical issues concerning software reliability, aging, rejuvenation, security, power management, multi-core programming, and system function allocation
- ❖ Provides case studies in finite state machines, model-checking, real-time software design with Unified Modelling Language (UML), how to make engineering trade-offs of space, power use and performance
- ❖ Defines and explains software design for Object-Oriented (OO) design, real-time UML, Input/Output (I/O) devices and software architectures, and model-checking tool, NuSMV

READERSHIP: Industrial practitioners involve in real-time and embedded software design, development and management responsibilities; undergraduate and postgraduate students in computer engineering, computer science, information technology, and software engineering faculties
 SERIES: QUANTITATIVE SOFTWARE ENGINEERING SERIES
 APR 2013 • 500PP • 978-1-118-11617-3 • CL • €83.50



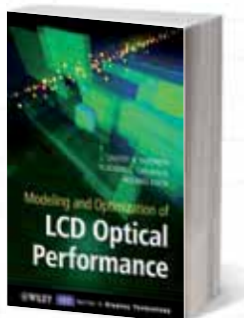
Pico-projection Systems

DR EDWARD BUCKLEY

Pixtronix Inc.

- ❖ Explains the basic concepts behind pico-projectors, and explores safety implications and potential markets
- ❖ Focuses on system level considerations rather than component level issues
- ❖ Includes LED-based and laser-based projection architectures, representing the two major candidate technologies currently under active development with comparable sub-sections for each to help highlight the comparative merits of the technologies

READERSHIP: Product development professionals in the consumer electronics and display industries, and investors who wish to obtain a balanced viewpoint of the future potential for such technologies
 SERIES: WILEY SERIES IN DISPLAY TECHNOLOGY
 MAY 2013 • 256PP • 978-1-119-95095-0 • CL • €77.50



Modeling and Optimization of Liquid Crystal Displays

HOI-SING KWOK, VLADIMIR G. CHIGRINOV & DMITRY A. YAKOVLEV

Hong Kong University of Science & Technology, China; Hong Kong University of Science & Technology, China; Saratov State University, Russia

- ❖ Presents a number of methods and techniques for the modelling and optimisation of liquid crystal devices, specific to the optical characteristics
- ❖ Contains information dealing with problems concerning polarisation optics, optics of anisotropic media, and optics of stratified media
- ❖ Highlights the importance of modelling to the LCD industry, including case studies from companies that are using the technology
- ❖ Includes a trial version of the modelling software

READERSHIP: Engineers and researchers involved in development and application of liquid crystal devices, postgraduate and PhD students studying liquid crystals or related topics such as material science or condensed matter physics
 SERIES: WILEY SERIES IN DISPLAY TECHNOLOGY
 MAY 2013 • 384PP • 978-0-470-68914-1 • CL • €75.00

VSC-FACTS, HVDC and PMU

Analysis, Modelling and Simulation in Power Grids

ENRIQUE E. ACHA, RODRIGO GARCÍA-VALLE, LUIGI VANFRETTI, ANTONIO DE LA VILLA JAÉN,
BEHZAD KAZEMTABRIZI & PEDRO RONCERO

University of Glasgow, UK; Technical University of Denmark, Denmark; KTH Royal Institute of Technology, Sweden; University of Seville, Spain; University of Glasgow, UK; University of Castilla-la Mancha

- ❖ Addresses new FACT power system application areas that have emerged over the past five years, including state estimation, constrained optimal power flow (OPF), and harmonic penetration
- ❖ Presents studies of FACTS dynamic performance and control, and the exploitation of phasor measurement units (PMU) for advanced FACTS monitoring, analysis and control
- ❖ Facilitates hands-on experience in modelling, analysis and simulation of electrical power networks with FACTS-HVDC-VSC equipment, through MATLAB routines and suitable data
- ❖ Comes with a companion website hosting software-based case studies

READERSHIP: Utility engineers, engineers in equipment design and manufacturing, academics and research students
JUN 2013 • 450PP • 978-1-119-97398-0 • CL • €94.50

Electricity Production from Renewables Energies

BENOIT ROBYNS, ARNAUD DAVIGNY, BRUNO FRANCOIS, ANTOINE HENNETON &
JONATHAN SPROTEN

Ecole des Hautes Etudes d'Ingénieur, France; Ecole des Hautes Etudes d'Ingénieur, France; Ecole Centrale de Lille, France; Ecole des Hautes Etudes d'Ingénieur, France; Ecole des Hautes Etudes d'Ingénieur, France

- ❖ Provides a better understanding of new technologies of electricity generation
- ❖ Presents the issues, sources, and means of conversion into electricity using a general approach
- ❖ Develops the notions of scientific basis to understand the main technical characteristics of renewable energy conversion

READERSHIP: Practitioners in the fields of engineering and materials science, electrical and electronic engineering, and power electronics
SERIES: ISTE
MAR 2012 • 978-1-848-21390-6 • CL • €109.00

Transformers and Inductors for Power Electronics

Theory, Design and Applications

WILLIAM HURLEY & WERNER WÖLFLE

National University of Ireland, UK; Convertec Ltd., UK

- ❖ Presents a rigorous approach to magnetic design with an emphasis on the fundamentals of electromagnetics
- ❖ Contains topics related to magnetic circuits and components that arise in power electronics including inductors, transformers, energy conversion, converters and automotive electronics
- ❖ Features a broad range of applications from modern power conversion systems including innovations in converters for transmission from renewable sources
- ❖ Includes end-of-chapter problems, worked examples in MATLAB and an accompanying website containing reference material related to the chapters in the book

READERSHIP: Senior undergraduate and postgraduate students in electrical engineering and electrical energy systems; and practicing engineers working with power supplies and energy conversion systems
APR 2013 • 392PP • 978-1-119-95057-8 • CL • €62.95

Advances in Electric Power and Energy

Forecasting in Electric Power Systems

MOHAMED E. EL-HAWARY

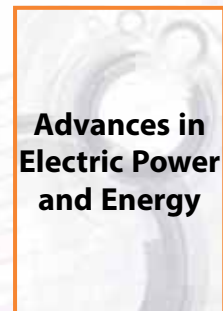
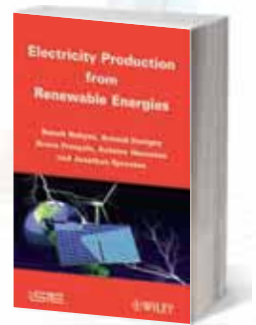
Dalhousie University, Canada

- ❖ Introduces advanced methods of time-series forecasting, as well as neural networks
- ❖ Deals with price forecasting in a competitive market
- ❖ Includes estimation of post-storm restoration times for electric power distribution systems

READERSHIP: Engineers and researchers in power system planning and operation; and postgraduate students
SERIES: IEEE PRESS SERIES ON POWER ENGINEERING
JUN 2013 • 400PP • 978-1-118-17134-9 • CL • €73.50



VSC-FACTS,
HVDC and
PMU



Advances in
Electric Power
and Energy



Fundamentals of Power Integrity

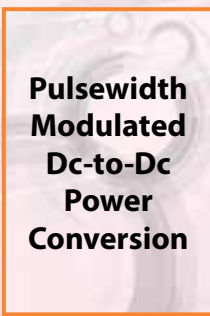
Fundamentals of Power Integrity

JOSEPH T. DIBENE II

Intel Corporation

- ❖ Features a unique focus on computer systems and silicon level power delivery unavailable elsewhere
- ❖ Offers detailed analysis of common problems in the industry
- ❖ Includes multiple exam problems and a detailed bibliography of references at the end of each chapter
- ❖ Provides tutorials at the end of the book, including sections on selected numerical methods, Fourier transformations, and other related topics

READERSHIP: Engineers in chip design industry, specifically physical design and packaging
MAY 2013 • 500PP • 978-1-118-09143-2 • CL • €83.50



Pulsewidth Modulated Dc-to-Dc Power Conversion

Pulsewidth Modulated Dc-to-Dc Power Conversion

Circuits, Dynamics, and Control Schemes

B. J. CHOI

University of Southampton, UK

- ❖ Provides comprehensive coverage of PWM DC-to-DC converters
- ❖ Includes text, problems, and simulation examples which have been continuously class-tested, revised, and updated, and a separate solution manual for 250 end-of-chapter problems
- ❖ Offers over 750 pages of PowerPoint lecture slides and over 180 PSpice Source Codes that are available for download free

READERSHIP: Professional engineers and postgraduate students
SERIES: IEEE PRESS SERIES ON POWER ENGINEERING
APR 2013 • 650PP • 978-1-118-18063-1 • CL • €93.50



Ultra-Capacitors in Power Conversion Systems

Ultra-Capacitors in Power Conversion Systems

Analysis, Modeling and Design in Theory and Practice

PETAR J. GRBOVIÆ

HUAWEI Technologies, Germany

- ❖ Provides a comprehensive insight into the ultra-capacitors theory, modelling and design from an application perspective
- ❖ Focuses on the practical aspects of power conversion and ultra-capacitor integration with power electronics systems
- ❖ Describes design procedures and control schemes for several different case studies
- ❖ Includes end-of-chapter exercises and design examples

READERSHIP: Power electronics engineers and professionals, industrial design engineers, application engineers, academic specialists, and upper undergraduates, postgraduates and PhD students in power electronics
SERIES: WILEY – IEEE
MAR 2013 • 300PP • 978-1-118-35626-5 • CL • €75.50

3D Face Modeling, Analysis and Recognition

MOHAMED DAUDI, ANUJ SRIVASTAVA & REMCO VELTKAMP

Telecom Lille 1; Florida State University, USA; Universiteit Utrecht, Netherlands

- ❖ Covers a wide range of applications including biometrics, 3D animation, facial surgery, forensics, and video communications
- ❖ Contains numerous exercises and algorithms
- ❖ Includes a section specifically on applications, making the book of interest to both those in research and industry

READERSHIP: Researchers, engineers, postgraduate and PhD students in the fields of image processing, pattern recognition, biometrics, face recognition, face modelling, facial surgery, video communications, 3D animation, and surveillance
JUN 2013 • 320PP • 978-0-470-66641-8 • CL • €75.50



Signal and Image Processing for Biometrics

EDITED BY AMINE NAIT-ALI & REGIS FOURNIER

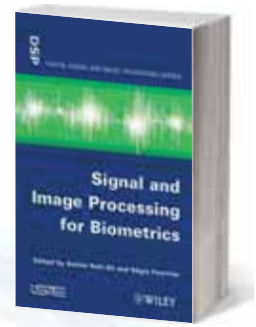
University of Paris 12, France; University Paris-Est Créteil, France

- ❖ Discusses numerous signal and image processing techniques that are very often used in biometric applications, such as algorithms related to hand feature extraction, speech recognition, 2D/3D face biometrics, and video surveillance
- ❖ Provides Matlab codes so that readers can easily reproduce some basic simulation results

READERSHIP: Final year undergraduate students, postgraduate students, engineers and researchers in the fields of computer engineering and applied digital signal and image processing

SERIES: ISTE

JUL 2012 • 336PP • 978-1-848-21385-2 • CL • €125.00



Digital Terrestrial Television Broadcasting

Technology and System

J. SONG

Tsinghua University, China

- ❖ Covers the fundamentals of channel coding and modulation technologies with emphasis on DTTB systems and Chinese DTTB standard
- ❖ Discusses the technologies used for DTTB receivers such as synchronisation, channel estimation and equalisation
- ❖ Introduces the SFN network using the successful implementation of DTMB in Hong Kong as an example

READERSHIP: Researchers, engineers, service providers, market analysts, policy makers, IT staff working in broadcasting, and universities

SERIES: THE COMSOC GUIDES TO COMMUNICATIONS TECHNOLOGIES

MAY 2013 • 300PP • 978-1-118-13053-7 • PR • €46.95

**Digital
Terrestrial
Television
Broadcasting**

Scale Issues in Remote Sensing

JIANFENG WENG

McGill University, Canada

- ❖ Examines fundamental theories with up-to-date scaling techniques
- ❖ Features the works of an editor who is a renowned authority in the Geographic Information Science community, and a team of internationally known contributors

READERSHIP: Geographic information scientists, cartographer, remote sensing imaging analysts, and postgraduate students in geosciences, GI sciences and geographic image analysis

APR 2013 • 380PP • 978-1-118-30504-1 • CL • €80.50

**Scale Issues
in Remote
Sensing**

Handbook of Coal-Fired Power Generation

JAMES G. SPEIGHT

CD-WINC, USA

- ❖ Details the manner in which coal properties can influence electricity production
- ❖ Describes the relevant clean coal technologies in an understandable manner and the role of coal in energy security scenarios
- ❖ Presents a realistic overview of the future of electricity generation from coal

READERSHIP: Engineers, managers, and technicians working in the coal industry

SERIES: POWER GENERATION

APR 2013 • 500PP • 978-1-118-20846-5 • CL • €130.00

**Handbook of
Coal-Fired
Power
Generation**

Wafer Manufacturing: Shaping of Single Crystal Silicon Wafers

Wafer Manufacturing: Shaping of Single Crystal Silicon Wafers

IMIN CAO & MILIND BHAGAVAT

SUNY at Stony Brook, USA

- ❖ Highlights the fundamentals of wafer manufacturing and recent research advances
- ❖ Presents information on the challenges of new uses of wafers such as SOI, Strained Silicon, MEMS and MOEMS
- ❖ Includes information on the wafering of various crystal ingots such as III-V and II-VI compounds, silicon carbide, and lithium niobates

READERSHIP: Engineers and industrial practitioners in manufacturing and semiconductor industries involved in wafer production, postgraduate students, research institutes and laboratories, and members of relevant professional organisations

JUN 2013 • 336PP • 978-0-470-06121-3 • CL • €100.00

Grid Integration of Electric Vehicles in Open Electricity Markets

Grid Integration of Electric Vehicles in Open Electricity Markets

QIUWEI WU

Technical University of Denmark, Denmark

- ❖ Explores the field of electric vehicles (EVs), including the impact of EV charging and discharging on transmission and distribution networks, optimal EV charging management, and EV battery technology and modelling
- ❖ Covers EV integration alongside electricity market design for EV integration and the interaction between EVs with different electricity markets
- ❖ Presents the latest research in EV integration technology and results of the 2018live'[J6] projects
- ❖ Provides up-to-date case studies and examples to help readers to carry out similar studies

READERSHIP: Power engineers, grid operators, researchers in EVs and power systems, policy makers, research professors, postgraduate and undergraduate students, distribution and transmission companies, and EV manufacturers and market professionals

MAY 2013 • 300PP • 978-1-118-44607-2 • CL • €78.50



AC Electric Motors Control

Advanced Design Techniques and Applications

FOUAD GIRI

Université de Caen Basse-Normandie, France

- ❖ Acts as a single source reference for all the knowledge needed to understand how an electric machine works and how it can be “observed” and “controlled” by means of modern multivariable and nonlinear control techniques
- ❖ Focuses on advanced nonlinear control design, which is needed in this important field of control systems, where robust and accurate speed and torque control devices are needed
- ❖ Presents design techniques leading to a robust output using modern nonlinear and adaptive control techniques
- ❖ Includes contributions from top researchers in the field

READERSHIP: AC motor system drive designers, R&D engineers in electrical engineering in electrical motor drive control, senior undergraduates, postgraduates and researchers both in academia and working in the field of advanced control of AC motor drives

MAY 2013 • 500PP • 978-1-118-33152-1 • CL • €88.00

Flexible and Printed Electronics Explained

Flexible and Printed Electronics Explained

Technology and Commercial Applications

JUTTA E. M. RASP

FPExperts, Germany

- ❖ Presents a comprehensive overview of flexible and printed electronics, explaining the most up-to-date advances, predictions for the future of the technology, and its commercial applications
- ❖ Serves as the only book to date that provides the business aspects of the topic alongside an explanation of the technology
- ❖ Describes the history of these electronics as well as recent progresses made over the past five years
- ❖ Provides an explanation of the major physics, chemistry and electronics behind each technical solution, and applications that cover areas such as displays, sensors and smart fabrics, and security

READERSHIP: Engineers working in flexible electronics and semiconductor and electronics industry, portfolio managers and marketing and sales executives, users and evaluators of the technology, and lecturers, postgraduates and final year undergraduates in electronics

APR 2013 • 448PP • 978-1-118-45184-7 • CL • €72.50

Stochastic Modeling and Analysis of Telecoms Networks

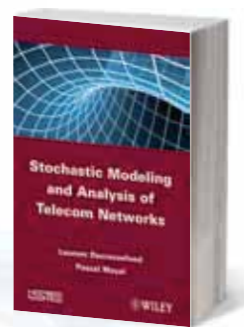
L. DECREUSEFOND

Télécom ParisTech, France

- ❖ Presents a wide list of results on stability, performances and comparison of systems
- ❖ Addresses the stochastic modelling of telecommunication networks by introducing the main mathematical tools of Markov processes, real and spatial point processes, and stochastic recursions
- ❖ Proposes a comprehensive mathematical construction of the foundations of stochastic network theory
- ❖ Provides a complete presentation of stochastic recursions, from an ergodic theoretical perspective to spatial point processes

SERIES: ISTE

MAR 2012 • 978-1-848-21238-1 • CL • €152.00



Crowdsourcing for Speech Processing

Applications to Data Collection, Transcription and Assessment

MAXINE ESKENAZI, GINA-ANNE LEVOW, HELEN MENG, GABRIEL PARENT &

DAVID SUENDERMANN

Carnegie Mellon University, USA; University of Washington, USA; The Chinese University of Hong Kong, China; Amazon.com, USA; Baden-Wuerttemberg Cooperative State University, Germany

- ❖ Provides an insightful and practical introduction to crowdsourcing as a means of rapidly processing speech data
- ❖ Addresses important aspects of this new technique that should be mastered before attempting a crowdsourcing application
- ❖ Offers speech researchers the hope that they can spend less time dealing with the data gathering/annotation bottleneck, allowing them to focus on the scientific issues

READERSHIP: Researchers and practitioners in speech research groups involved in speech processing, sociolinguistics and other areas of linguistics where speech data is to be gathered and transcribed; and senior undergraduates and postgraduates

APR 2013 • 368PP • 978-1-118-35869-6 • CL • €75.50



Sound Visualization and Manipulation

YANG-HANN KIM & JUNG-WOO CHOI

Both of Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

- ❖ Serves as the first book to combine both the visualisation and manipulation of sound technologies in one comprehensive volume
- ❖ Presents the basic concepts using simple one-dimensional cases and extends the concept to three-dimensional cases, for easier understanding of the fundamental concepts with minimal mathematics
- ❖ Provides a solid understanding of associated physics as well as mathematical concepts behind the technologies, and addresses diffraction problems by using Kirchhoff-Helmholtz integral equation
- ❖ Uses extensive examples demonstrating the benefits and drawbacks of various applications, including beamforming and acoustic holography

READERSHIP: Postgraduate and senior undergraduate students, acoustic engineers, audio and noise control system developers, and environmental engineers

JUN 2013 • 400PP • 978-1-118-36847-3 • CL • €90.00



**Sound
Visualization
and
Manipulation**

Propagation Channel Characterization, Parameter Estimation, and Modeling for Wireless Communications

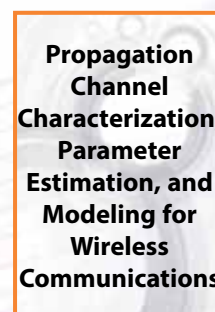
X. YIN

Tongji University, China

- ❖ Presents technical explanations that are illustrated with examples
- ❖ Discusses results applied to 4G communication systems and other emerging communication systems, such as relay, CoMP, and vehicle-to-vehicle rapid time-variant channels
- ❖ Serves as a comprehensive tutorial for students and a complete reference for engineers in industry
- ❖ Includes programme downloads for readers and solution manual for instructors in the companion website

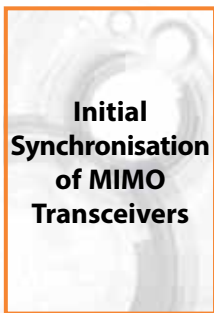
READERSHIP: Postgraduate students and researchers and engineers involved in wireless communications equipment R&D

MAY 2013 • 350PP • 978-1-118-18823-1 • CL • €95.00



**Propagation
Channel
Characterization,
Parameter
Estimation, and
Modeling for
Wireless
Communications**





Initial Synchronisation of MIMO Transceivers

CDMA, MC-CDMA, OFDM, UWB and Cooperative Systems

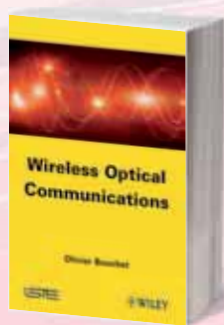
LAJOS HANZO, S-H WON & L. L. YANG

- ❖ Investigates the fundamental characteristics of code acquisition schemes using co-located MIMO
- ❖ Serves as the first book that focuses on MIMO-aided transceiver synchronisation issues
- ❖ Provides comprehensive coverage of code acquisition schemes

READERSHIP: Researchers in telecommunication, mobile and wireless communication, and engineers in telecommunication antennas, transceiver design and radar

SERIES: IEEE SERIES ON DIGITAL & MOBILE COMMUNICATION

MAY 2013 • 500PP • 978-1-118-07206-6 • CL • €90.00



Wireless Optical Telecommunications

OLIVIER BOUCHET

France Telecom Research and Development, France

- ❖ Discusses free space optics that are already used for the exchange of current information and its many benefits
- ❖ Focuses on wireless optical communications and the implementation of real complete systems
- ❖ Provides a wide range of information on wireless optical communication and useful concepts that relate to propagation, optics and photometry, and safety

SERIES: ISTE

APR 2012 • 320PP • 978-1-848-21316-6 • CL • €125.00



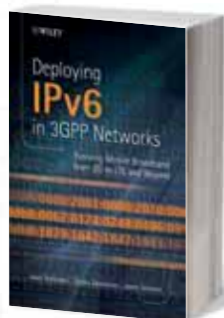
802.11ac Wireless Computer Networking Standard

JOONSUK KIM & MATTHEW FISCHER

- ❖ Provides a brief history on 802.11ac, as well as its purpose and goal
- ❖ Covers the main features of physical layer specifications in detail
- ❖ Features the works of authors who are leading experts in the field

READERSHIP: Wireless LAN and wireless computer network engineers and architects, wireless device designers, network engineers and network risk managers

JUN 2013 • 300PP • 978-1-118-50526-7 • PR • €46.50



Deploying IPv6 in 3GPP Networks

Evolving Mobile Broadband from 2G to LTE and Beyond

T. SAVOLAINEN

Nokia Research Center, Finland

- ❖ Serves as a practical guide that enables mobile operators to deploy IPv6 with confidence, written by highly respected authors in the IPv6/mobile world
- ❖ Provides an explanation of the technical background for some not-so-obvious design choices, what to concentrate on, and what transition strategies should be used by vendors and operators
- ❖ Offers an overview of the technology, including IPv4-embedded and mapped addresses, translation, encapsulation, mesh vs. hub-spoke, and scalability concerns
- ❖ Describes the 3GPP network architectures, protocol architectures, protocol headers, signalling sequences, and command line script snippets

READERSHIP: Professionals working on transitioning 3GPP networks to IPv6, IP experts moving from fixed networking background to mobile networks, and university students studying IP and IPv6 works on 3GPP networks

SERIES: NSN/NOKIA SERIES

MAY 2013 • 384PP • 978-1-118-39829-6 • CL • €62.50



Pervasive Information Management Systems

VIJAY KUMAR

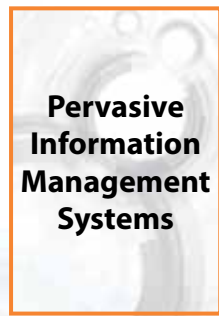
University of Missouri at Kansas City, USA

- ❖ Fully revised and updated second edition of Mobile Database Systems, 2006
- ❖ Features comprehensive coverage on Mobile Database Systems (MDS) management
- ❖ Includes case studies relating to cell phones, Bluetooth technology, and automobile navigation systems, including exercises and examples at the end of each chapter
- ❖ Offers discussions on sensor technology, stream data processing, mobile database security and contextual processing at the end of each chapter

READERSHIP: Researchers, teachers and postgraduate students at educational and research institutions and companies, who will use the book in courses on mobile computing

JUN 2013 • 400PP • 978-1-118-02424-9 • CL • €63.50

REPLACES ISBN: 978-0-471-46792-2



Pervasive Information Management Systems

Practical Implementation of Error Correction Codes

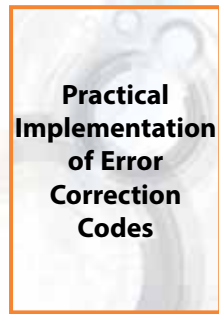
REED-MULLER & ALEXANDER KRAVTCHENKO

Both of Ubiso GmbH, Germany

- ❖ Covers a range of commonly used block codes, from the well-established Reed-Muller, BCH and Reed-Solomon codes, to the latest Low Density Parity Check codes
- ❖ Begins with algebraic basics and simple implementation examples and develops through to advanced LDPC codes
- ❖ Shows the hardware and software implementations of both traditional and modern codes
- ❖ Includes the implementation of probabilistic decoding mechanisms used in DVB-xx, WiMax (IEEE 802.16e), LAN (IEEE 802.11n), Wave WPAN (IEEE 802.15.3c) and IEEE 802.3an (10GBase-T) Ethernet

READERSHIP: Engineers who implements error correction codes in their applications, system, DSP and algorithms engineers, academics and postgraduate students in the mobile, wireless and network communications, medical, and bioinformatics fields

APR 2013 • 416PP • 978-1-118-34172-8 • CL • €68.95



Practical Implementation of Error Correction Codes



Wireless Networking

A Look at the Past, Present, and Future of the Wireless Internet

JACK L. BURBANK, JULIA ANDRUSENKO, JARED S. EVERETT & WILLIAM T.M. KASCH

- ❖ Focuses on real life networking challenges and solutions
- ❖ Features the written works of wireless network instructors at The Johns Hopkins University
- ❖ Serves as a 'one-stop shop' reference covering all existing wireless technologies with a global wired networking prospective

READERSHIP: Practical engineers in the field of wireless networking, and students

MAY 2013 • 640PP • 978-1-118-12238-9 • CL • €90.00



Wireless Networking

Network Coding

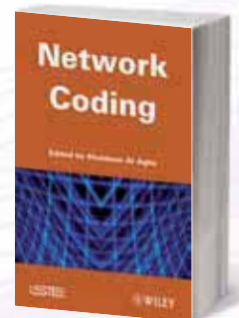
KHALDOUN AL AGHA

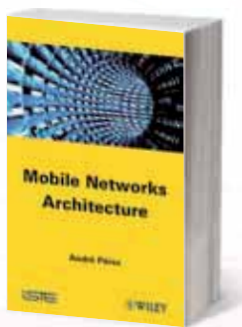
University Paris-South, France

- ❖ Explains network coding and provides a set of studies showing the improvements in security, capacity and performance of fixed and mobile networks
- ❖ Discusses the relatively new area of research in network coding, and how it has evolved from the theoretical level to become a tool used to optimise the performance of communication networks i.e. wired, cellular and ad hoc
- ❖ Presents network coding as a tool to enhance the existing protocols and algorithms in a network or for applications such as peer-to-peer and TCP

READERSHIP: University students studying coding, and researchers and practitioners in sectors of all industries where digital communication is used

SERIES: ISTE
APR 2012 • 304PP • 978-1-848-21353-1 • CL • €109.00





Mobile Networks Architecture

ANDRE PEREZ

- ❖ Explains the evolution of mobile architecture
- ❖ Summarises the various relevant packet systems
- ❖ Describes how the increase in the rate of data transmission between networks and mobiles have caused an evolution in technology

READERSHIP: Practitioners and students in engineering and materials science, electrical and electronics engineering, communication technology and networks

SERIES: ISTE

JAN 2012 • 978-1-848-21333-3 • CL • €109.00



Fundamentals of Cognitive Radio

SIMON HAYKIN

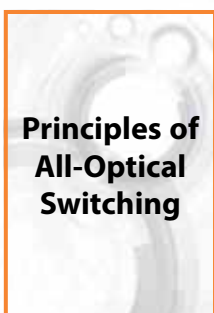
McMaster University, Canada

- ❖ Features the use of cognition to enhance wireless communications systems
- ❖ Presents the fact that cognitive computers are able to match the human brain in tasks of object detection, tracking, and control
- ❖ Suggests that cognition can be applied to alleviate problems with traditional energy systems

READERSHIP: Postgraduate students taking courses on cognitive radio networks, communication engineers, telecommunication professionals, design engineers and system

SERIES: WILEY SERIES ON COGNITIVE DYNAMIC SYSTEMS

JUN 2013 • 450PP • 978-1-118-30296-5 • CL • €96.95



Principles of All-Optical Switching

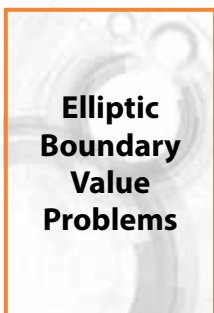
CHUN FEI LI

Harbin Institute of Technology, China

- ❖ Summarises all-optical switching theory and technology, also detailing the most up-to-date research on the topic
- ❖ Analyses designs for all-optical switches and discusses the technological platforms for realising these devices
- ❖ Reviews the main relations governing the nonlinear effects involved, and the alternatives to building optical switches
- ❖ Summarises the physical concepts and fundamental principles of optical switching, such as nonlinear interferometers, all-optical bistable devices, optical limiters and nanophotonics

READERSHIP: Researchers, scientists, engineers, technical and R&D staff, as well as postgraduate and senior undergraduate students in the fields of optical technologies, optoelectronic devices, integrated photonic circuits, and optical systems

MAY 2013 • 350PP • 978-1-118-18838-5 • CL • €100.00



Elliptic Boundary Value Problems

Basic Theory and Approximation

IVAR STAKGOLD & MICHAEL J. HOLST

University of Delaware, USA; University of California, San Diego, USA

- ❖ Features coverage on approximation methods and theory, including best linear approximation in linear spaces, finite element and wavelet methods for linear equations, and methods for nonlinear equations
- ❖ Provides examples and applications from a wide variety of applications in engineering and physical sciences, as well as an up-to-date bibliography
- ❖ Includes discussions on main topics such as nonlinear problems, partial differential equations, operator theory, Hilbert and Banach spaces, and the theory of distributions
- ❖ Outlines careful derivations of equations that arise in applications, including the treatment of variational methods and perturbation theory

READERSHIP: Senior undergraduate and postgraduate students in applied analysis and boundary value problems in partial differential equations, and mathematicians, physicists, engineers, and scientists who use applied mathematics

SERIES: PURE AND APPLIED MATHEMATICS: A WILEY SERIES OF TEXTS, MONOGRAPHS AND TRACTS

MAY 2013 • 480PP • 978-1-118-13526-6 • CL • €76.95



An Introduction to Optimization

4th Edition

EDWIN K. P. CHONG & STANISLAW H. ZAK

Colorado State University, USA; Purdue University, USA

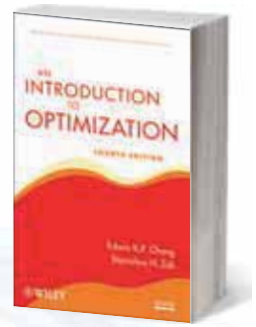
- ❖ Features a new chapter on integer programming and expanded coverage on one-dimensional methods and linear matrix inequalities
- ❖ Provides an up-to-date, accessible introduction to optimisation theory and methods with emphasis on engineering design and additional exercises in almost every chapter
- ❖ Includes improvements to the organisation, discussion and reviews of basic definitions, notations, and relations from linear algebra to geometry, and calculus and unconstrained optimisation problems
- ❖ Comes with access to the MATLAB M-files for implementation of theory and algorithms

READERSHIP: Senior undergraduates and postgraduates in optimisation theory and methods, researchers and professionals in mathematics, operations research, electrical engineering, economics, statistics and business; and libraries

SERIES: WILEY SERIES IN DISCRETE MATHEMATICS AND OPTIMIZATION

JAN 2013 • 640PP • 978-1-118-27901-4 • CL • €76.95

REPLACES ISBN: 978-0-471-75800-6



Introduction to Statistics Through Resampling Methods and R

2nd Edition

PHILLIP I. GOOD

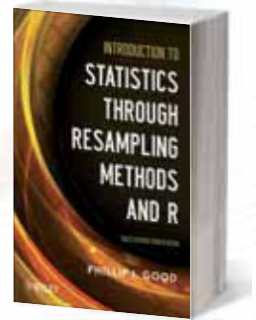
Information Research, USA

- ❖ Serves as an excellent guide to descriptive statistics, estimation, testing hypotheses, and model building
- ❖ Provides all the pedagogical tools needed to facilitate quick learning

READERSHIP: Students and practitioners of statistics

FEB 2013 • 208PP • 978-1-118-42821-4 • PR • €40.50

REPLACES ISBN: 978-0-471-71575-7



An Accidental Statistician

The Life and Memories of George E.P. Box

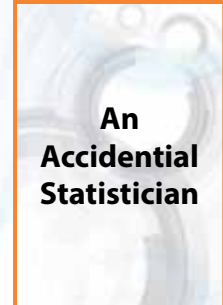
GEORGE E. P. BOX

Formerly of University of Wisconsin, USA

- ❖ Offers a narrative of the life of acclaimed statistician, George E.P.Box, from his early childhood on to his celebrated career in academia and industry
- ❖ Opens with two Forewords written by Box's former colleagues and closest confidants
- ❖ Celebrates Box's countless accomplishments and impact on the statistics and engineering communities; more than a dozen researchers and practitioners provide their thoughts and accounts of how Box touched their careers and lives
- ❖ Features a collection of unpublished photos from Box's personal collection

READERSHIP: Statisticians, engineers, historians, undergraduates and professionals

MAY 2013 • 352PP • 978-1-118-40088-3 • CL • €23.50



An Introduction to Imprecise Probabilities

FRANK COOLEN, MATTHIAS TROFFAES & GERT DE COOMAN

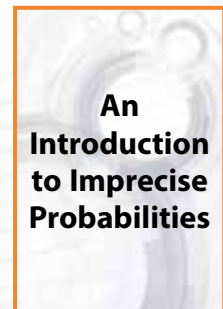
Durham University, UK; Ghent University, Belgium

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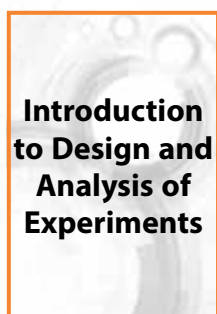
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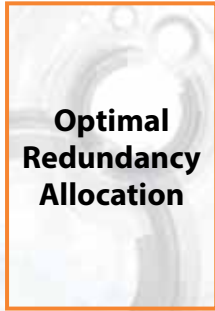
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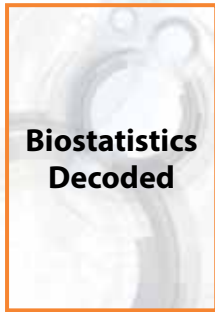


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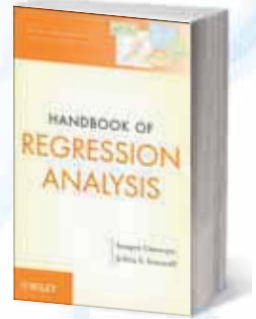
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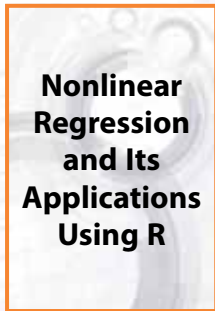
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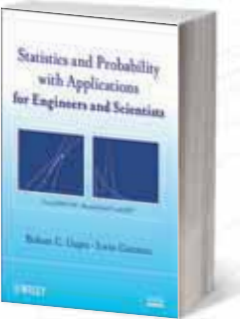
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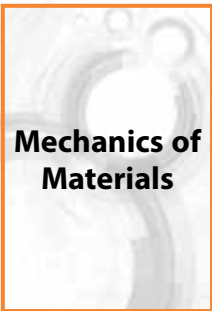


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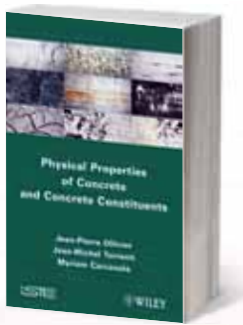
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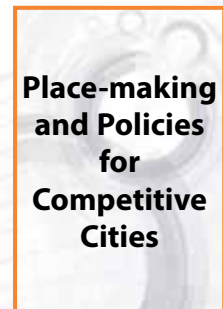
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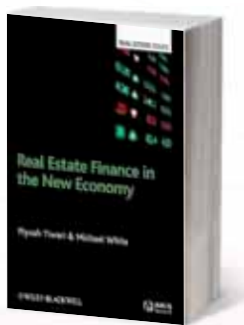
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Schweiz
Wiley-VCH Verlag
c/o Blumer Transporte
Lyonstrasse 30
4053 Basel

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Genehmigte Remittenden an:

Deutschland / Österreich
Wiley-VCH GmbH & Co KG a A
Boschstraße 12
69469 Weinheim
Deutschland

Schweiz
Wiley-VCH Verlag
c/o Blumer Transporte
Lyonstrasse 30
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