

2011
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Humanities and Social Science



Just the Arguments

100 of the Most Important Arguments in Western Philosophy

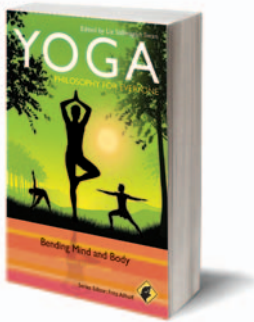
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Immunitas

The Protection and Negation of Life

ROBERTO ESPOSITO

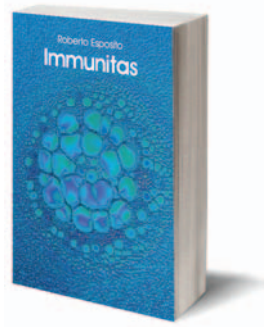
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CHRISTINA HOWELLS

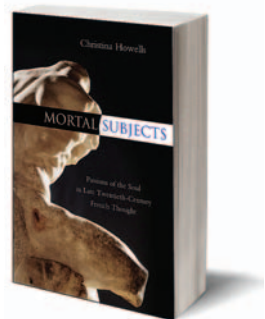
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Dante's Deadly Sins

Moral Philosophy In Hell

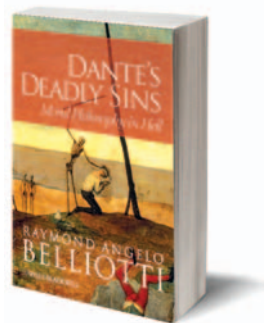
RAYMOND ANGELO BELLIOTTI

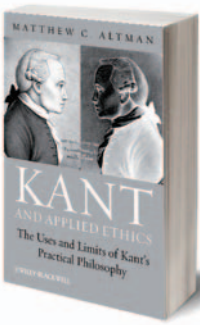
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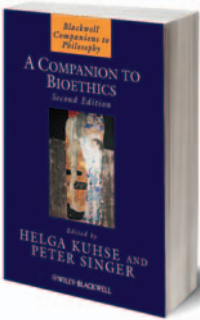
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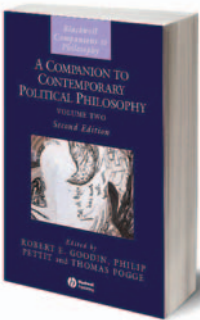
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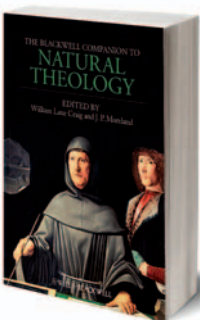
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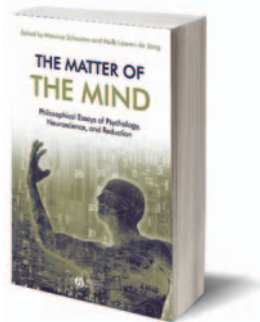
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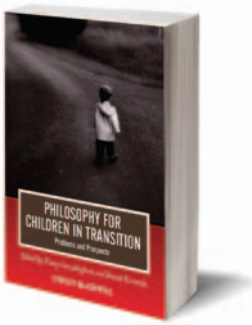


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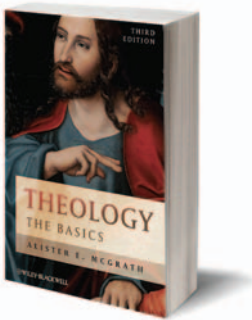
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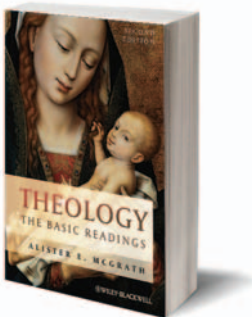
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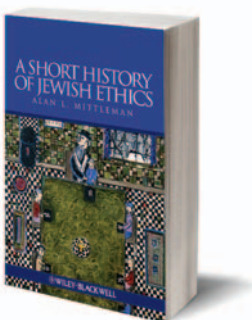
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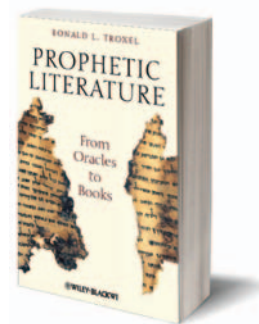
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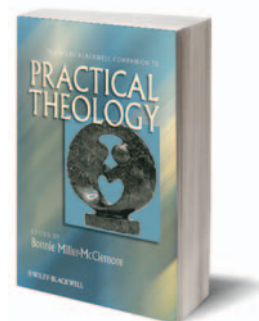
Edited by **BONNIE J. MILLER-MCLEMORE**

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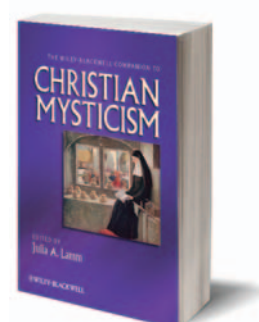
Edited by **JULIA LAMM**

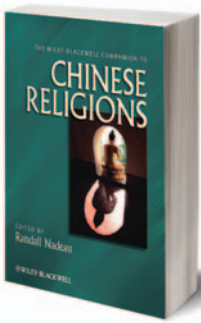
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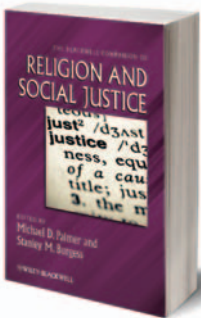
Edited by **RANDALL NADEAU**

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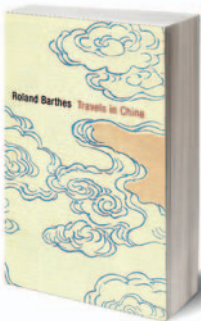
Edited by **MICHAEL D. PALMER & STANLEY M. BURGESS**

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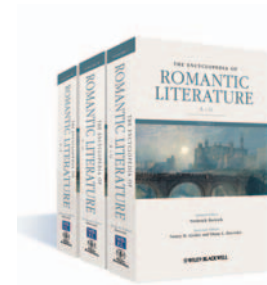
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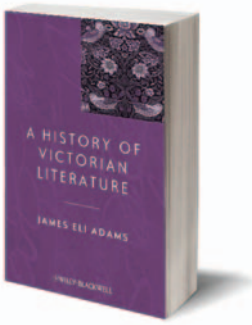
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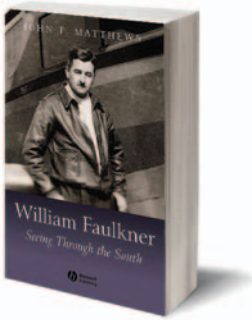
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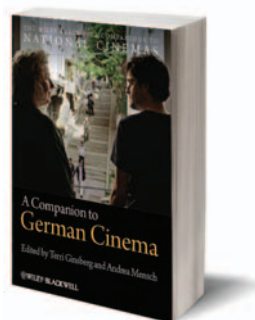
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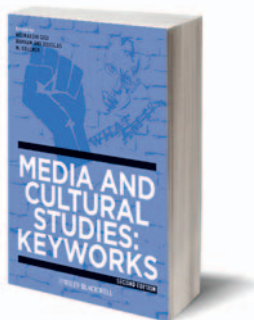
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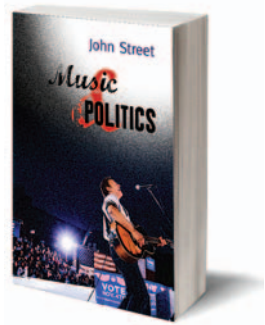
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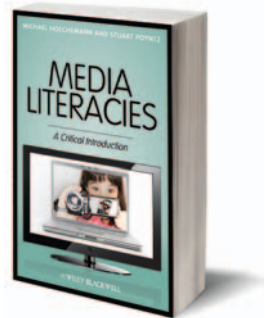
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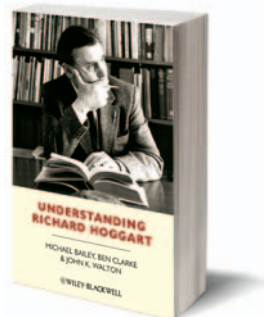
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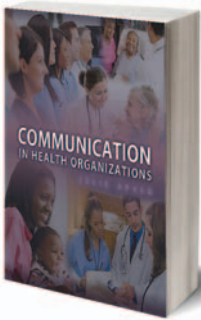
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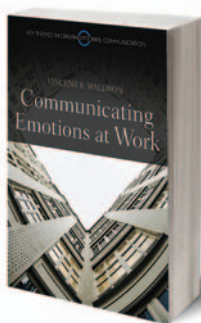
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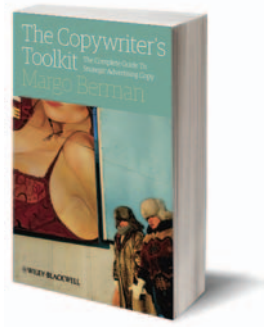
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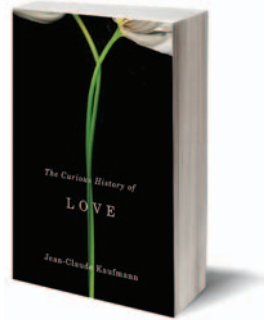
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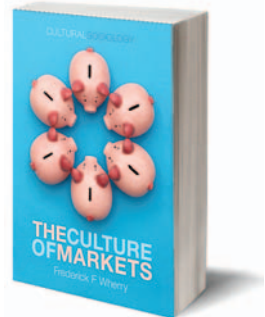
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- ❖ He illustrates this new theory with case studies including Barack Obama's electoral campaign, terrorist violence on September 11th and material icons

READERSHIP: Postgraduate students and academics in sociology, politics, media and cultural studies

OCT 2011 232PP 978-0-745-64818-7 PR £16.99 €20.40 / 978-0-745-64817-0 CL £55.00 €66.00

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Modernity

Understanding the Present

PETER WAGNER

University of Barcelona, Spain

- ❖ This is a brief, authoritative and accessible introduction to the idea of modernity, written by a leading social theorist
- ❖ Wagner shows that modernity was based on ideas of freedom, reason and progress, but he examines the extent to which these ideas have been, and can be, realized in the modern world
- ❖ He shows that our concept of modernity is inextricably tied to the history of the West and asks whether this places limits on attempts to compare societies and to develop a world sociology of modernity

READERSHIP: Advanced undergraduates, postgraduates and scholars of sociology, politics, cultural studies and related subjects

DEC 2011 160PP 978-0-745-65291-7 PR £12.99 €15.60 / 978-0-745-65290-0 CL £45.00 €54.00

Work

STEVEN VALLAS

Northeastern University, USA



TEXT BOOK

- ❖ Provides a concise overview of how work is understood and defined, both as a concrete aspect of economic life, but also its social and political meanings
- ❖ Draws on theoretical and empirical contributions from a broad range of disciplines, from sociology to history, from economics to organizational studies
- ❖ Explores key issues in the sociology of work, such as gender inequalities, the power of social network (who you know), and the global transformations of work
- ❖ Written by a well-known and respected scholar and textbook writer in the sociology of work field

READERSHIP: Upper-level students of the sociology of work, and related subjects such as business studies, economics, and organizational studies

SERIES: KEY CONCEPTS IN THE SOCIAL SCIENCES

NOV 2011 200PP 978-0-745-64679-4 PR £15.99 €19.20 / 978-0-745-64678-7 CL £45.00 €54.00

Latino Immigrants in the United States

RONALD MIZE & GRACE DELGADO

Cornell University, USA; Penn State University, USA



TEXT BOOK

- ❖ A sophisticated yet accessible introduction to the experiences of Latino immigrant groups in the US – the largest minority group in the US
- ❖ Covers topics such as the definition of the Latino category, pathways to citizenship, gender, labour and transnationalism
- ❖ Includes interpretation of topical issues such as the immigrant rights movement, recent anti-immigration state legislation, and vigilante hate crime groups
- ❖ Relates diverse Latino experiences to core sociological themes and ideas in order to fully understand the impacts for both immigrants and the US

READERSHIP: Upper-level students of the sociology of immigration, race and ethnicity, and Latino studies, primarily in the United States

SERIES: IMMIGRATION AND SOCIETY

DEC 2011 200PP 978-0-745-64743-2 PR £14.99 €18.00 / 978-0-745-64742-5 CL £50.00 €60.00

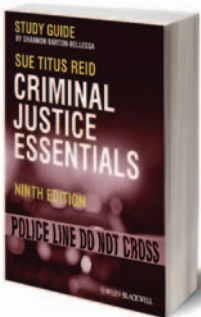
Criminal Justice Essentials

Study Guide

9th Edition

SHANNON BARTON-BELLESEA

Indiana State University, USA



TEXT BOOK

- ❖ Designed to accompany and enhance the ninth edition of Sue Titus Reid's *Criminal Justice Essentials*—the most thorough, legally accurate, and best-researched overview of the US criminal justice system
- ❖ Provides a comprehensive resource to aid and enhance student learning.
- ❖ Includes chapter outlines, key concepts, and a variety of study questions and answer, the *Student Study Guide* offers the ideal complement to *Criminal Justice Essentials*.
- ❖ Anchored within the framework of the legal system and consistently includes legal decisions as a basis for much of its direction

AUG 2011 200PP 978-0-470-67121-4 PR £32.99 €39.60

The Wiley-Blackwell Companion to Sociology

Edited by **GEORGE RITZER**

University of Maryland, US

- ❖ Features original essays contributed by an international cast of leading and emerging sociology scholars
- ❖ Represents the most innovative and 'state-of-the-art' thinking about the discipline
- ❖ Includes a general introduction and section introductions with essay summaries by the editor

READERSHIP: Undergraduate level students for courses in sociology, anthropology, cultural studies, communication and media studies, politics, globalization, and related fields; also for sociological scholars

SERIES: WILEY-BLACKWELL COMPANIONS TO SOCIOLOGY

DEC 2011 608PP 978-1-4443-3039-7 £110.00 €132.00



Measure and Value

Edited by **LISA ADKINS, ROGER BURROWS & CELIA LURY**

University of Newcastle, Australia; University of York, UK; Goldsmith's College, University of London, UK

- ❖ Explores how issues of measure and value are emerging as central in current debates concerning the capacity of social science and cognate disciplines to engage contemporary social and cultural life
- ❖ Debates the restructuring of time, scale, number, pattern and sequence
- ❖ Investigates the changing character and properties of data, evidence and the empirical
- ❖ Questions if we do need new forms of measure, and what different forms of measure actually do?
- ❖ Addresses these questions to place issues of measure and value at the core of contemporary social science debate

READERSHIP: Academics, researchers and upper level postgraduates of sociology

SERIES: SOCIOLOGICAL REVIEW MONOGRAPHS

NOV 2011 200PP 978-1-4443-3958-1 PR £17.99 €21.60

Confronting Equality

Gender, Knowledge and Global Change

RAEWYN CONNELL

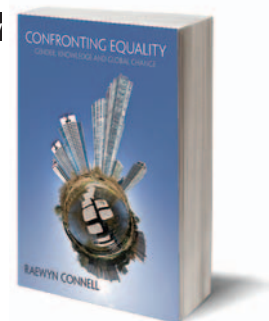
University of Sydney, Australia

- ❖ A wide-ranging volume from one of the world's most influential and respected figures in gender studies
- ❖ Proposes a bold new agenda and manifesto for the social scientists as advocates of social justice
- ❖ Addresses topics such as gender equality struggles, class and sexuality, voices from outside the West, the role of public intellectuals and the dilemmas of today's Left
- ❖ Written with clarity, passion, and often with good humour as is typical of Connell's engaging and engaged scholarship

READERSHIP: Upper-level students and scholars across the social sciences, especially in gender studies, sociology and cultural studies

SEP 2011 200PP 978-0-745-65351-8 PR £15.99 €19.20 / 978-0-745-65350-1 CL £50.00 €60.00

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Gender and Popular Culture

KATIE MILESTONE & ANNEKE MEYER

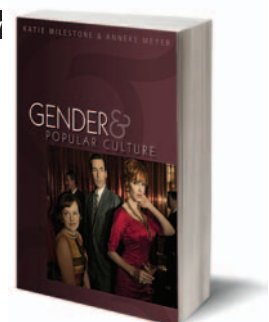
Both of Manchester Metropolitan University, UK

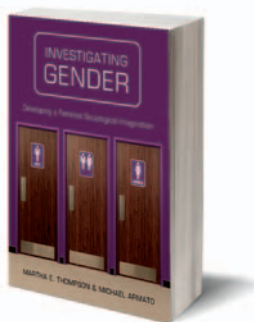
- ❖ A clear, comprehensive overview that examines how popular culture affects the construction of gendered identities
- ❖ Up-to-date examples make key concepts and theories interesting and relevant for students
- ❖ A mix of primary and secondary research creates a balanced yet original overview
- ❖ The authors use a wide range of sources - including popular music and television - to analyse how men and women are represented in popular culture

READERSHIP: Accessible for sophomores (second-year undergraduates) onwards

NOV 2011 226PP 978-0-745-64394-6 PR £15.99 €19.20 / 978-0-745-64393-9 CL £50.00 €60.00

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Investigating Gender

Developing a Feminist Sociological Imagination

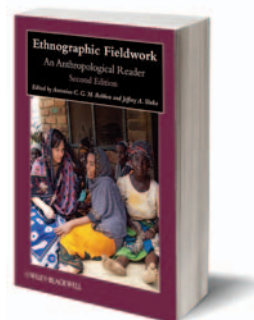
MARTHA E. THOMPSON & MICHAEL ARMATO

Both of Northeastern Illinois University, USA

- ❖ A fresh and exciting new textbook that will be an indispensable and dynamic entry point for students of gender
- ❖ Pays full attention to the recent move towards recognizing intersectionality and the way gender interacts with other forms of privilege and oppression
- ❖ Responds to the growing desire for global and international comparative material on gender, by taking a strong global perspective
- ❖ The authors have designed the text first and foremost to be pedagogically creative, enabling students to develop their own skills in gender analysis, rooted in social justice

READERSHIP: Undergraduate students of sociology and women's studies

DEC 2011 300PP 978-0-745-65186-6 PR £24.99 €30.00 / 978-0-745-65185-9 CL £65.00 €78.00



Ethnographic Fieldwork

An Ethnographic Reader

2nd Edition

Edited by ANTONIUS C.G.M. ROBBEN & JEFFREY A. SLUKA

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- ❖ New edition of this popular international collection of classic and contemporary readings
- ❖ Provides students with an historical, methodological, ethical, reflexive and stylistic context to fieldwork
- ❖ Features 15 new articles and revised part introductions, offering additional insight and understanding to the experience of conducting fieldwork and its greater role in the discipline of anthropology
- ❖ Brings together the essential readings that have shaped and continue to transform this multidimensional discipline

READERSHIP: Advanced undergraduate and postgraduate students; professional academics engaged in ethnographic field research; students and academics from other disciplines interested in ethnographic fieldwork as a methodological approach

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The New South Africa

LYNN MESKELL

Stanford University, USA

- ❖ A groundbreaking work that examines the conflicts inherent in natural versus cultural heritage
- ❖ Examines how nations attempt to overcome a negative heritage through past mastering of their histories, using post-apartheid South Africa as a pivotal example
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- ❖ Employs ethnographic and archaeological methodologies to reveal how the past is processed into a new national heritage

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A Companion to the Anthropology of Europe

Edited by ULLRICH KOCKEL, MAIREAD NÍ CRAITH & JONAS FRYKMAN

University of Ulster, UK; University of Ulster, UK; Lund University, Sweden

- ❖ Provides the first authoritative guide for researchers, instructors and students of European ethnology and anthropology
- ❖ Highlights emerging trends in anthropological studies of European integration, policy, cultural practice, and everyday lived experience
- ❖ Evaluates questions of European identity and heritage, including their unity and diversity
- ❖ Written by established names and rising stars who will shape the discipline in years to come

READERSHIP: Undergraduates, graduate students and researchers of Anthropology, European Anthropology, European Ethnology and European Studies

SERIES: BLACKWELL COMPANIONS TO ANTHROPOLOGY

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A Companion to Paleopathology

Edited by **ANNE L. GRAUER**

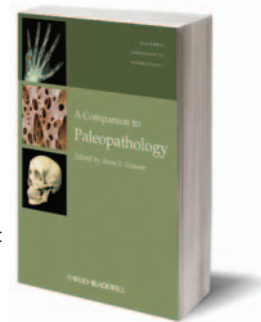
Loyola University of Chicago, USA

- ❖ Presents a broad overview of the field of paleopathology, integrating theoretical and methodological approaches to understand biological and disease processes throughout human history
- ❖ Relates how paleopathology sheds light on the past through the analysis of human and non-human skeletal materials, mummified remains and preserved tissue
- ❖ Integrates scientific advances in multiple fields that contribute to the understanding of ancient and historic diseases, such as epidemiology, histology, radiology, parasitology, dentistry, and molecular biology, as well as archaeological, archival and historical research
- ❖ Highlights cultural processes that have an impact on the evolution of illness, death and dying in human populations, human environmental adaptations, the effects of malnutrition, deliberate body modification, and interpersonal and intercultural violence

READERSHIP: Advanced undergraduates, graduates, and professional researchers in paleopathology, archaeology, osteology, and medical and forensic sciences

SERIES: BLACKWELL COMPANIONS TO ANTHROPOLOGY

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The New Carbon Economy

Constitution, Governance and Contestation

Edited by **PETER NEWELL, MAX BOYKOFF & EMILY BOYD**

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- ❖ This volume provides a critical understanding of the carbon economy: how it is constituted, governed and the social, environmental and political effects it generates.
- ❖ Examines different dimensions of the carbon economy from a range of disciplinary angles in a diversity of settings
- ❖ Provides the means for researchers to subject claims of newness and uniqueness to critical scrutiny
- ❖ Covers a range of geographical settings including Europe, the US and Central America

READERSHIP: Academics and researchers of Geography, Development Studies, Sociology, Environmental Studies, Philosophy, Political Science and International Relations; upper level undergraduates and MA/MBA courses in Climate Change (Science, Politics, Economics, Business and Development)

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People, Place, and Culture

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- ❖ Includes all of the important concepts and theory in a succinct and engaging narrative style that students can understand, while doing so in enough depth to touch on all of the major themes of Human Geography.
- ❖ Students are encouraged to better understand how they create their own identity in a globalized world and how the decisions that they make happen in a global context and can have global impacts.
- ❖ Current examples make the reading fun for students while the narrative is approachable and appealing.

READERSHIP: Undergraduate Geography students with Human Geography modules and Geographers

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An Organizational Systems Approach to Designing Ethical Organizations

DENIS COLLINS

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- ❖ The text's organisation is based on an "Optimal Ethics Systems Model" which includes ethical job candidates, training, performance appraisals and community outreach
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Essentials of Information Systems for Managers

Text Only

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- ❖ Written in an engaging and non-academic style, providing actionable frameworks to help managers envision how to develop value added IT-dependent strategic initiatives
- ❖ Part III on "The Strategic Use of IS" offers unique and useful frameworks that MBAs will be able to put into practice
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A Practical Approach

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- ❖ Accompanied by an Online Instructor's Website that provides extensive support to teach with this approach

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- ❖ Focuses mainly on the effective communication between the housekeeping, front office, and engineering and maintenance staff

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TEXT BOOK



Resorts

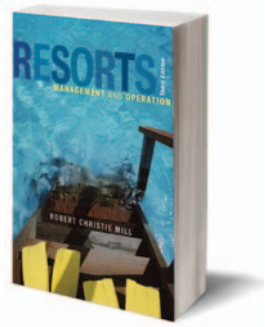
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- ❖ A summary of almost 30 years of thought, analysis, and research into the field of resort management, written from a business viewpoint - yet takes into account the unique structure of resorts
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Tourism

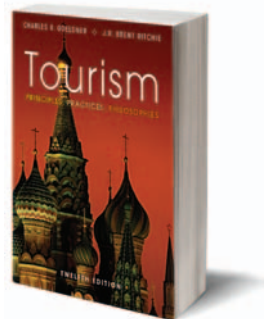
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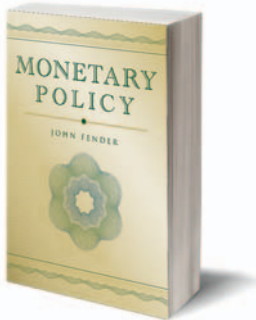
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- ❖ Delivers a balanced and detailed approach to the conceptual and technical aspects of advanced accounting
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READERSHIP: Accountants, accounting lecturers and students

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Nonlinearity, Complexity and Randomness in Economics

Towards Algorithmic Foundations for Economics

Edited by **STEFANO ZAMBELLI & DONALD A. R. GEORGE**

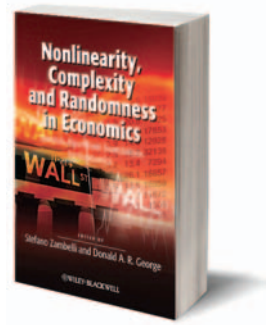
University of Trento, Italy; University of Edinburgh, UK

- ❖ Features an interdisciplinary collection of papers by economists, scientists, and philosophers
- ❖ Presents new approaches to macroeconomic modelling, agent-based modelling, financial markets, and emergent complexity
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Texas A & M University; University of Arizona

- ❖ Includes general updates and revisions throughout, including new information on behavioural economics, game theory, price theory, and problems for every chapter
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- ❖ Uses text and graphs, with hardly any maths, to teach microeconomic concepts
- ❖ This edition is also enhanced with large, clear graphs with simple exposition explaining the dynamic; new real-world applications and international applications

READERSHIP: Business professionals, lecturers, students undertaking Microeconomics courses

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The Politics of Climate Change

2nd Edition

ANTHONY GIDDENS

Former Director of London School of Economics and Political Science, UK

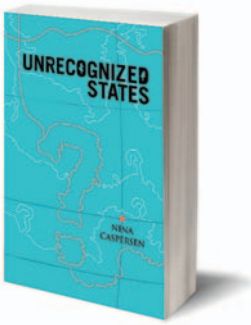
- ❖ A fully revised and updated edition of this key textbook on the politics of climate change, by one of the world's leading social thinkers
- ❖ This is the first book to develop a systematic politics of climate change.
- ❖ Offers new concepts and practical proposals for coping with a fundamental issue of our time

READERSHIP: Undergraduate and postgraduate students of politics, sociology, and European Studies as well as policy makers concerned with critical questions throughout Europe; interested general readers

SEP 2011 260PP 978-0-745-65515-4 PR £14.99 €18.00 / 978-0-745-65514-7 CL £50.00 €60.00

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TEXT BOOK

Unrecognised States

The Struggle for Sovereignty in the Modern International System

NINA CASPEREN

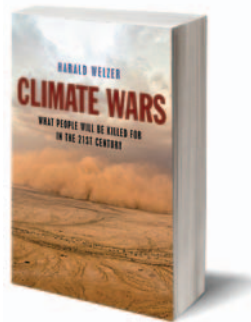
University of Lancaster, UK

- ❖ The first truly comprehensive, thematically organized analysis of unrecognized states
- ❖ Carefully developed to offer students a balanced and insightful introduction to this important topic
- ❖ Draws on both contemporary and historical cases, situating them within a broader analysis of sovereignty and statehood in the modern international system
- ❖ Ideally suited to students and scholars working in international politics, peace, conflict and security studies

READERSHIP: Upper division students of international relations, comparative politics, and conflict resolution

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Climate Wars

What People Will Be Killed for in the 21st Century

HARALD WELZER

Universities of Hanover and Witten-Herdecke, Germany

- ❖ A wake-up call on the new threats the world faces from global climate change
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Fragile States

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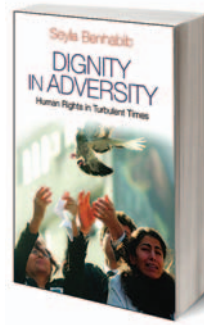
Yale University, USA

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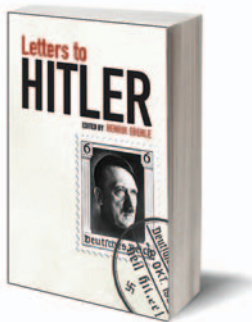
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Letters to Hitler

HENRIK EBERLE

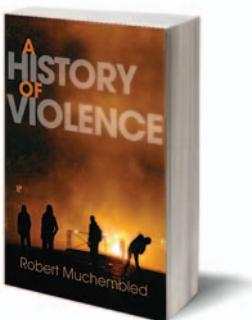


- ❖ There are a few protest letters and the occasional desperate plea to release a loved one from a concentration camp, but the overwhelming majority are positive and even rapturous, shedding fresh light on the nature of the Hitler cult in Nazi Germany
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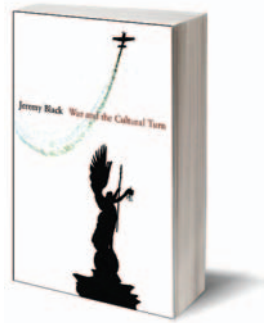
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From the Encyclopédie to Wikipedia

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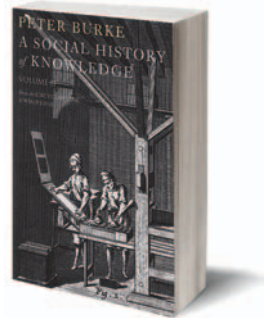
University of Cambridge, UK

- ❖ Sequel to the magisterial *Social History of Knowledge*, this second edition follows the story from the 1750 publication of the French *Encyclopédie* to Wikipedia
- ❖ The book is awe-inspiring in both the breadth and range of its contents and displays again the author's ability to compress complex ideas and material in a readable form
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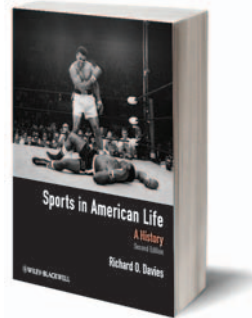
University of Kentucky, USA

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- ❖ Presents a chronological, yet thematic, account of the complex historical contexts that produced and shaped the Haitian Revolution

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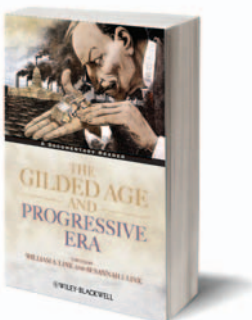
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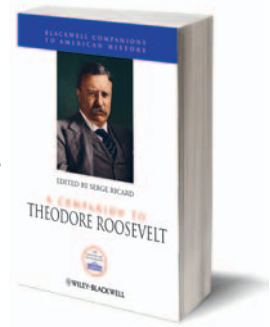
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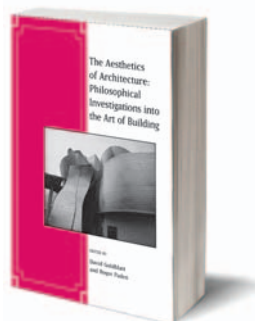
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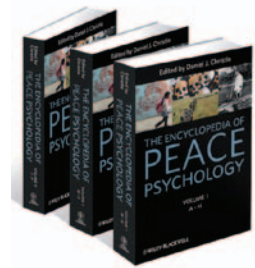
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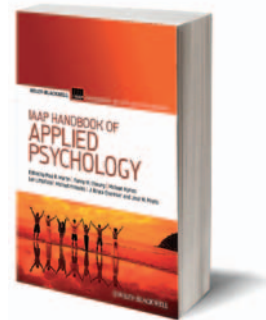
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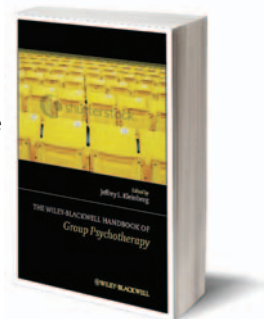
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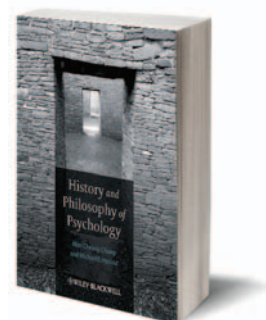
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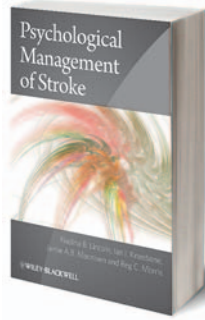
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Psychological Management of Stroke

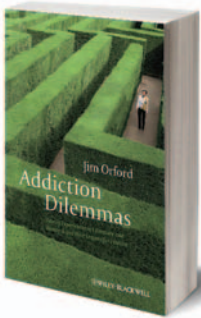
NADINA B. LINCOLN, IAN I. KNEEBONE, JAMIE A. B. MACNIVEN & REG C. MORRIS

University of Nottingham, UK; University of Surrey, UK; University of Nottingham, UK; Cardiff University, UK

- ❖ Provides comprehensive reviews of evidence-based practice relating to stroke
- ❖ Written by clinical psychologists working in stroke services
- ❖ Covers a broad range of psychological aspects, including fitness to drive, decision making, prevention of stroke, and involvement of carers and families
- ❖ Represents a novel approach to the application of psychological theory and principles in the stroke field

READERSHIP: Clinical psychologists and other health care professionals; graduate level students in clinical psychology, health and social care; undergraduate level students of occupational therapy and advanced nursing

NOV 2011 352PP 978-0-470-68426-9 PR £39.99 €39.60 / 978-0-470-68427-6 CL £70.00 €84.00



Addiction Dilemmas

Family Experiences from Literature and Research and Their Lessons for Practice

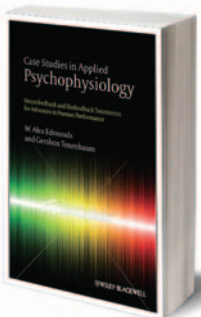
JIM ORFORD

University of Birmingham, UK

- ❖ Draws on a unique breadth of material to illustrate the dilemmas faced by family members in coping with a close relative's addiction
- ❖ Brings together accounts from research interviews, biography, autobiography and relevant fiction in a creative and original way
- ❖ Tackles common misunderstandings at public, practitioner, scholarly and policy levels about the predicaments that family members commonly find themselves in
- ❖ Each chapter closes with a commentary, questions and exercises designed to further develop understanding

READERSHIP: A broad range of specialist and non-specialist professionals including social workers, mental health nurses, primary health care professionals, psychologists and family therapists; researchers, academics and students involved with addiction; members of the general public who find themselves in this situation

OCT 2011 256PP 978-0-470-97702-6 PR £29.99 €36.00 / 978-0-470-97701-9 CL £60.00 €72.00



Case Studies in Applied Psychophysiology

Neurofeedback and Biofeedback Treatments for Advances in Human Performance

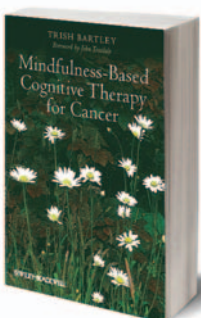
Edited by W. ALEX EDMONDS & GERSHON TENENBAUM

Nova Southeastern University, USA; Florida State University, USA

- ❖ Includes case-study examples focusing directly on improving human performance in non-clinical populations utilizing biofeedback and neuro-feedback techniques
- ❖ Acknowledges both the art and science of employing these tools for performance-related gains in sports and artistic fields, presenting unique case studies detailing the variety of procedures used
- ❖ Offers comprehensive coverage of key topics and procedures in an emerging field

READERSHIP: Practitioners in the field of psychophysiology working with both clinical and non-clinical populations; practitioners, graduates and academics in sport psychology, kinesiology, exercise psychology and physiology and sport medicine; clinical and counselling psychologists

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Mindfulness Based Cognitive Therapy for Cancer

Gently Turning Towards

TRISH BARTLEY

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- ❖ Presents an eight week MBCT for cancer course, tried and tested over ten years of clinical use, and adapted and targeted specifically for cancer patients
- ❖ Supports the growing evidence of mindfulness as a successful and cost-effective intervention for reducing the negative psychological impact of cancer and treatment
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- ❖ Includes new short practices and group processes developed by the author

READERSHIP: Health professionals, including psychologists, counsellors and psychotherapists, doctors, nurses, OTs, and social workers, interested in mindfulness based interventions to cancer patients; existing mindfulness teachers interested in, or currently working in, oncology settings

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Critical Neuroscience

A Handbook of the Social and Cultural Contexts of Neuroscience

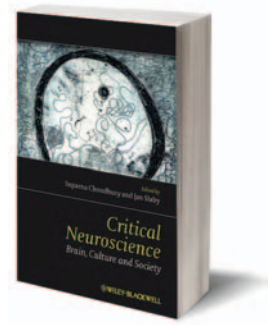
Edited by SUPARNA CHOUDHURY & JAN SLABY

Max Planck Institute for the History of Science, and Humboldt University, Germany; Free University, Berlin, Germany

- ❖ An original, interdisciplinary approach that explores the creative potential for engaging experimental neuroscience with social studies of neuroscience
- ❖ Furthers the dialogue between neuroscience and the disciplines of the social sciences and humanities
- ❖ Features contributions from eminent scholars including Steven Rose, Joseph Dumit, Laurence Kirmayer, Shaun Gallagher, Fernando Vidal, Allan Young and Joan Chiao

READERSHIP: Researchers in psychology, cognitive neuroscience, philosophy, anthropology, sociology, historical and social studies of science, anthropology of science and philosophy of science; graduate level students on courses in these areas of study

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READERSHIP: Students of psychology, psychologists and medical professionals

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An Introductory Approach with Case Studies

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READERSHIP: Undergraduate and postgraduate students on courses in education and educational research; researchers in education, teacher education and educational action

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Reflection for Action

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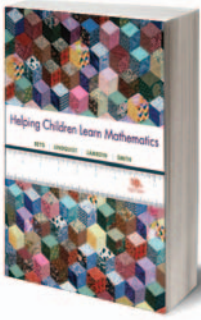
ANGELA O'DONNELL, JOHN MARSHALL REEVE, JEFFREY SMITH

- ❖ Presents a reflective practice framework that teaches the skills necessary to know how to connect the theory to various situations
- ❖ Provides critical thinking techniques and reflective practice skills essential to long-term success and growth
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READERSHIP: Educational Psychologists, Educational Psychology Students and Lecturers

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SCIENCE, TECHNOLOGY & MEDICINE



Ophthalmology Lecture Notes

11th Edition

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Stoke Mandeville Hospital, Aylesbury; Nuffield Laboratory of Ophthalmology, Oxford

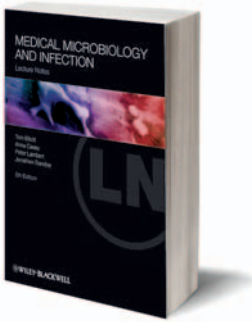
- ❖ Concentrates on the most common eye problems that health practitioners are expected to diagnose and manage
- ❖ Includes a new chapter structure bringing Symptoms and Examination together; 'Paediatric Ophthalmology' summary boxes throughout; an increased use of 'key points' boxes; and more illustrations
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READERSHIP: Medical students, Foundation year doctors, junior doctors, optometry students, general practitioners, practising opticians, and ophthalmic nurses

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Rheumatology, Orthopaedics and Trauma at a Glance

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Both of Oxford University

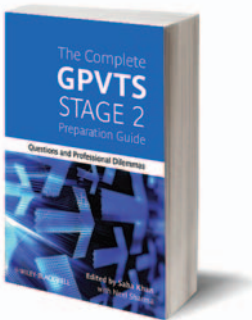
- ❖ This fully updated new edition uniquely covers trauma, orthopaedics and rheumatology in one volume
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The Complete GPVTS Stage 2 Preparation Guide

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- ❖ Presents the contributors own accumulated experience of typical problems and dilemmas, including thorough explanations for each answer, including wrong answers, for all aspects of medicine and surgery and the sub-specialties

READERSHIP: Candidates of the GPVTS examination and Foundation Year doctors

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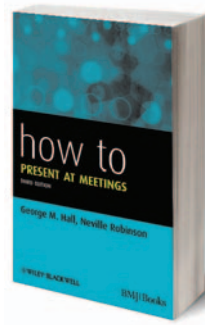
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How to Assess Doctors and Health Professionals

MIKE DAVIS, KIRSTY FORREST & JUDY MCKIMM

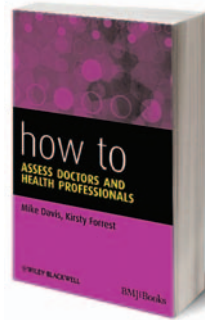
College of Emergency Medicine, London; Leeds Teaching Hospital NHS Trust, Leeds; Unitec Institute of Technology, Auckland, New Zealand

- ❖ Provides a concise introduction to assessment in medical education
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Diagnostic Tests Toolkit

MATTHEW THOMPSON & ANN VAN DEN BRUEL

Both of University of Oxford

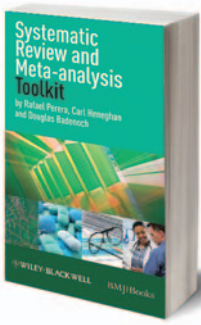
- ❖ Provides an overview of an area of high importance in current evidence-based practice
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- ❖ Ideal for both interpreting and using in test development
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- ❖ Written by experienced systematic reviewers from the Centre for Evidence Based Medicine and Cochrane Collaboration

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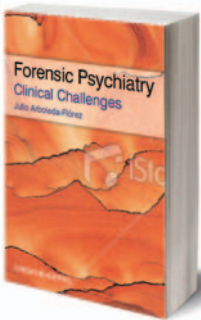
California Pacific Medical Center, California

- ❖ A user friendly clinical casebook, offering a handy lay-out, and portable size
- ❖ Presents over 60 cases that hospital-based physicians need to be able to rapidly recognize and understand
- ❖ Includes over 100 high-quality images on both rare and common clinical cases
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READERSHIP: Hospitalists, hospital-based physicians

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Forensic Psychiatry

Clinical Challenges

JULIO ARBOLEDA-FLOREZ

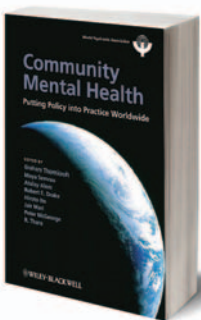
Queen's University, Ontario

- ❖ In depth analysis of the major practical topics that are of interest to forensic psychiatrists and psychologists globally
- ❖ Julio Arboleda-Florez has held the position of Chairman of the World Psychiatric Association Section on Forensic Psychiatry for 20 years.
- ❖ Features clinical information for forensic experts working in the context of either incarceration or the wider net of civil and criminal courtroom work

READERSHIP: Forensic psychiatrists, forensic psychologists, forensic mental health workers, general psychiatrists; trainees and postgraduate students in psychiatry, psychology, medical ethics and mental health law, lawyers in the criminal field

SERIES: WORLD PSYCHIATRIC ASSOCIATION

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Community Mental Health

Putting Policy into Practice Worldwide

GRAHAM THORNICROFT, ATALAY ALEM, ROBERT E. DRAKE, HIROTO ITO, JAIR MARI, PETER

MCGEORGE, R. TARA & MAYA SEMRAU

Institute of Psychiatry, King's College London; Addis Ababa University, Ethiopia; New Hampshire-Dartmouth Psychiatric Research Center, USA; National Centre of Neurology and Psychiatry, Tokyo, Japan; Universidade Federal de São Paulo, Brazil; New Zealand Mental Health Commission, New Zealand; Schizophrenia Research Foundation (SCARF), Chennai, India; Institute of Psychiatry, Kings College London

- ❖ Reviews the implementation of community-orientated care
- ❖ Summarizes the steps, obstacles and mistakes that have been encountered in the implementation of community mental health care worldwide and presents guidelines on how to avoid them
- ❖ Draws on scientific evidence and the vast accumulated experience of the authors

READERSHIP: Psychiatrists, psychologists, mental health nurses, psychiatric social workers, occupational therapists, researchers in mental health services research, health policy makers, general practitioners

OCT 2011 208PP 978-1-1199-9865-5 PR £59.99 €72.00

Psychiatry and Heart Disease

The Mind, Brain, and Heart

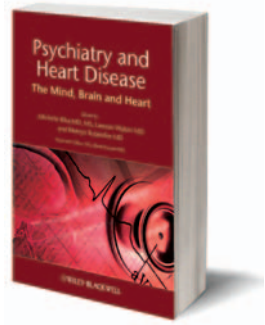
MICHELLE RIBA, LAWSON WULSIN, MELVYN RUBENFIRE & DIVY RAVINDRANATH

University of Michigan; University of Cincinnati; University of Michigan; University of Michigan

- ❖ A unique book which helps psychiatrists to understand the risks of cardiovascular illness and cardiologists to appreciate possible path-physiological links with psychiatric conditions
- ❖ Chapters written by teams of psychiatrists and cardiologists
- ❖ Clinically oriented, including short case vignettes making the book user-friendly

READERSHIP: Psychiatrists, cardiologists, psychiatry trainees, cardiology trainees, clinical psychologists, primary care physicians, specialist nurses, specialist pharmacists, clinical pharmacologists, postgraduate trainees in psychosomatic medicine

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- ❖ First differential diagnosis book to focus on children's behaviours
- ❖ Organised to allow rapid lookup of behaviours and comprehensive lists of their possible causes
- ❖ Provides useful, up-to-date information that is not readily available anywhere else
- ❖ Ground-breaking, new approach to looking at child behaviour

READERSHIP: Child and adolescent psychiatrists, clinical psychologists, mental health nurses, social workers, youth workers

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Current Science and Clinical Practice

JOSEPH ZOHAR

Sheba Medical Center, Israel

- ❖ Provides a concise overview of the current state of the art in OCD research and clinical management
- ❖ OCD is a highly prevalent psychiatric condition affecting around 2–3% of the population worldwide
- ❖ Looks critically at the diagnostic classification and revision of the two major international systems
- ❖ Written by an A-list team of experts in the field

READERSHIP: Psychiatrists, and neuropharmacologists, psychiatry trainees, researchers in psychiatry and psychopharmacology, neuroscientists, clinical psychologists

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DEC 2011 368PP 978-0-470-71125-5 CL £49.99 €60.00



Fetal Behaviour

A Neuodevelopmental Approach

CHRISTA EINSPIELER, DANIELA PRAYER & HEINZ F. R. PRECHTL

Medical University of Graz; Medical University of Vienna; Medical University Graz

- ❖ Presents an account of our current understanding of fetal behaviour based on the assessment of fetal movements and behavioural states
- ❖ Provides important clues on the recognition of the age-specific functional repertoire of the nervous system
- ❖ Includes a companion DVD contains 26 movies using both ultrasound and dynamic MRI to illustrate the text
- ❖ Authors are pioneers in the field.

READERSHIP: Researchers, neonatologists, paediatricians, paediatric neurologists, neurophysiologists, neuroscientists, obstetricians

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Cerebellar Disorders in Children

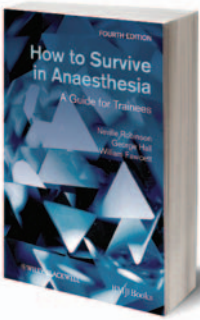
EUGEN BOLTSHAUSER & JEREMY SCHMAHMANN

University Children's Hospital in Zurich; Massachusetts General Hospital

- ❖ The first definitive reference book on disorders of the cerebellum in children
- ❖ Includes chapters on cerebellar development, prenatal cerebellar imaging, imaging of the posterior fossa and coverage of broad range of malformations, genetic and metabolic disorders
- ❖ Numerous checklists are provided to assist in the differential diagnosis of clinical signs and neuroimaging findings

READERSHIP: Paediatric neurologists, paediatricians, neurologists, developmental paediatricians, neuroimaging specialists, geneticists, neonatologists

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How to Survive in Anaesthesia

4th Edition

NEVILLE ROBINSON

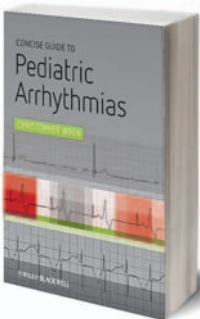
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- ❖ New edition of a popular, established handbook for anaesthesia trainees
- ❖ Includes a new introduction on the theatre environment – unique to this book
- ❖ A new editor joins the highly experienced team to add a new perspective to the book
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READERSHIP: Trainees in anaesthesia, operation department practitioners

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REPLACES ISBN 978-1-4051-4645-6



Concise Guide to Pediatric Arrhythmias

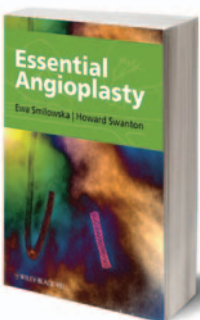
CHRISTOPHER WREN

Freeman Hospital, Newcastle-upon-Tyne

- ❖ The first authoritative guide to pediatric arrhythmias
- ❖ Provides clear guidance to recognizing arrhythmias and understanding essential information about their genesis and management
- ❖ Looks at how to recognize and understand common and comparatively rare rhythmic abnormalities
- ❖ Highly illustrated, featuring real ECG tracings

READERSHIP: Pediatric cardiologists and fellows; pediatricians and pediatric fellows; family physicians; pediatric nurse practitioners; EKG and other EP technicians

NOV 2011 168PP 978-0-470-65855-0 PR £41.99 €50.40



Essential Angioplasty

EWA SMILOWSKA & HOWARD SWANTON

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- ❖ A modern, clear and practical book based on hands-on experience
- ❖ Designed for ease of use and quick access to information
- ❖ Ideal for trainees in Interventional Cardiology and less-experienced practitioners
- ❖ Offers over 300 tips and tricks with a take home message closing every topic and chapter

READERSHIP: Trainees/fellows in interventional cardiology; interventional cardiologists; cath lab nurses and other technical and support staff

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Gastrointestinal Bleeding

2nd Edition

JOSEPH SUNG, ERNST KUIPERS & ALAN BARKUN

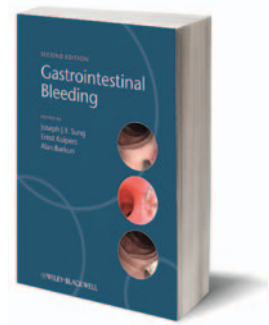
The Chinese University of Hong Kong; University Medical Center, Rotterdam; The McGill University Health Centre, Montreal

- ❖ A new truly international edition, thoroughly restructured, visually improved, including updates on all areas in the field of GI bleeding
- ❖ Includes the latest guidelines on Upper gastrointestinal bleeding presented at the international consensus on UGIB in October 2008
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- ❖ Joseph Sung is widely regarded as one of the world's leading experts on GI and peptic ulcer bleeding and has developed numerous pioneering techniques to manage and treat the condition

READERSHIP: Trainee and practising gastroenterologists and gastrointestinal surgeons

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REPLACES ISBN 978-0-727-91008-0



Problem-based Approach to Gastroenterology & Hepatology

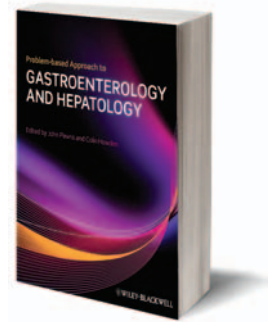
JOHN PLEVRIS & COLIN HOWDEN

The Royal Infirmary, Edinburgh; Northwestern University Feinberg School of Medicine, Chicago

- ❖ The first fully problem-based text available in gastroenterology and hepatology
- ❖ International editors and contributors provide the best global practice for evaluating a case, diagnosis and management options
- ❖ Evidence-based reviews of related topics provide essential overviews for the cases
- ❖ Includes a DVD with video clips of endoscopy and imaging to assist evaluation of the cases

READERSHIP: Trainees, gastroenterologists, hepatologists, endoscopists

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Advanced Therapy for Hepatitis C

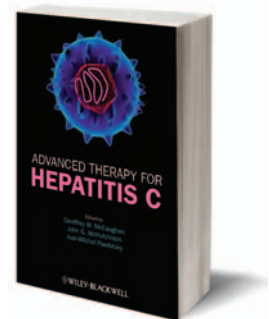
GEOFFREY W. McCAUGHAN, JOHN McHUTCHINSON & JEAN-MICHEL PAWLOTSKY

University of Sydney; Gilead Sciences, Inc.; Université Paris Est, Créteil

- ❖ This is a comprehensive guide to the treatment of patients with the HCV virus, focusing purely on the treatment
- ❖ Contains a late breaking chapter highlighting the latest clinical trial results of antiviral drugs
- ❖ John McHutchinson is a leading world expert in the treatment of patients with the HCV virus

READERSHIP: Gastroenterologists, hepatologists, and hepatology nurse specialists

DEC 2011 300PP 978-1-4051-8745-9 CL £59.99 €72.00



Clinical Dilemmas in Primary Liver Cancer

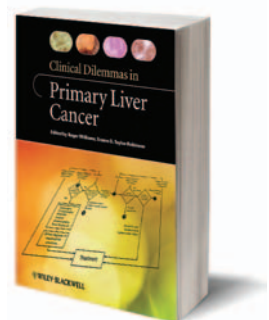
ROGER WILLIAMS & SIMON D. TAYLOR-ROBINSON

University College London; Imperial College London

- ❖ Covers the most recent developments in treatment of patients with advanced liver cancer
- ❖ Each chapter focuses on a specific dilemma that doctors regularly encounter, providing direct answers to their most common problems
- ❖ Offers a learning points box in each chapter, providing clear take-home messages
- ❖ Roger Williams is world re-known and is one of Europe's most decorated hepatologists

READERSHIP: Hepatologists and gastroenterologists, including both specialists and doctors in speciality training; GI speciality nurses. Also researchers, oncologists, pathologists, histopathologists, radiologists and transplant surgeons

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Staged Diabetes Management

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ROGER MAZZE, RICHARD M. BERGENSTAL, ROBERT CUDDIHY, ELLIE S. STROCK, AMY CRIEGO, ODED LANGER, GREGG SIMONSON & MAGGIE POWERS

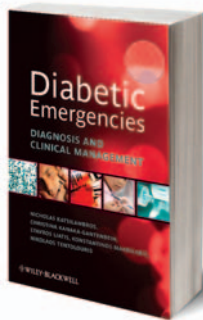
University of Minnesota; Park Nicollet Clinic, USA; Park Nicollet Clinic, USA; Park Nicollet Clinic, USA; University of Minnesota; St Luke's-Roosevelt Hospital, USA; Park Nicollet Clinic, USA; Park Nicollet Clinic, USA

- ❖ Based on the highly successful diabetes programme for primary care developed by the world-renowned International Diabetes Centre in Minneapolis, USA
- ❖ Thoroughly revised to reflect the ever-changing landscape of diabetes healthcare
- ❖ New chapters cover novel technologies for characterisation of glucose metabolism
- ❖ Presents a clear set of clinical algorithms consistent with EASD/ADA recommendations

READERSHIP: Primary care physicians, diabetes specialist nurses, and all those with an interest in diabetes

OCT 2011 352PP 978-0-470-65466-8 CL £89.99 €108.00

REPLACES ISBN 978-0-470-86576-7



Diabetic Emergencies

Diagnosis and Clinical Management

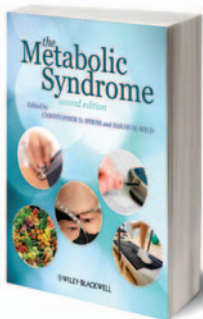
NICHOLAS KATSIAMBROS, CHRISTINA KANAKA-GANTENBEIN, STAVROS LIATIS, KONSTANTINOS MAKRILAKIS & NIKOLAOS TENTOLOURIS

All at Laiko General Hospital, Athens, Greece

- ❖ Provides clear-cut guidance on how to recognise, treat and follow-up a diabetic emergency, as well as provide post-hospital advice to patients
- ❖ Includes management algorithms based on society guidelines
- ❖ Each chapter contains case studies and multiple choice questions for self-assessment
- ❖ All of the authors are expert diabetologists with lots of experience in clinical medicine and in diabetes research.

READERSHIP: Endocrinology and diabetes specialists and trainees; diabetic nurses; emergency room physicians

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The Metabolic Syndrome

Science and Clinical Practice

2nd Edition

CHRISTOPHER D. BYRNE & SARAH H. WILD

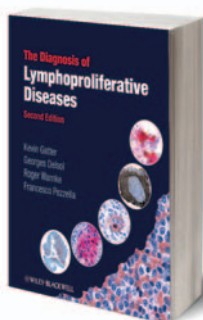
Southampton General Hospital; University of Edinburgh

- ❖ Covers all aspects of the metabolic syndrome and its constituent diseases, including inflammation, oxidation and adipocytokine
- ❖ All chapters have been fully updated, 5 brand new chapters on childhood obesity and metabolic syndrome; bariatric surgery for obesity; fitness; brain insulin resistance and appetite; and the nature of the insulin resistance in metabolic syndrome.

READERSHIP: Endocrinologists, Primary care physicians, cardiologists, diabetologists, hepatologists, gynaecologists, peripheral vascular disease physicians and surgeons

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REPLACES ISBN 978-0-470-02511-6



The Diagnosis of Lymphoproliferative Diseases

2nd Edition

KEVIN GATTER, GEORGES DELSOL, ROGER WARNKE & FRANCESCO PEZZELLA

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- ❖ Tables of essential criteria included for each diagnosis
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READERSHIP: Haematologists, haematopathologists, general pathologists and diagnostic histopathologists, oncologists

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Concise Guide to Hematology

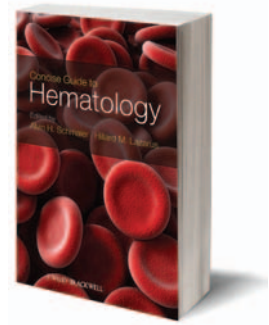
ALVIN H. SCHMAIIE & HILLARD M. LAZARUS

Both of Case Western Reserve University, USA

- ❖ A didactic pocket guide for residents, fellows and trainees
- ❖ Features simple line drawings, algorithms, bullet points and key words throughout
- ❖ Designed to highlight the important basic concepts and diseases throughout the spectrum of haematology
- ❖ Previous version of the book was published by Lippincott and was called 'Hematology for the Medical Student' ISBN 978-0-781-73120-1

READERSHIP: Trainees in haematology undertaking rotations and examinations in the field

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Dewhurst's Textbook of Obstetrics and Gynaecology

8th Edition

KEITH EDMONDS

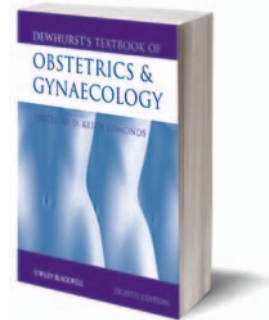
Queen Charlotte's and Chelsea Hospital, London

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JAN LOTVALL

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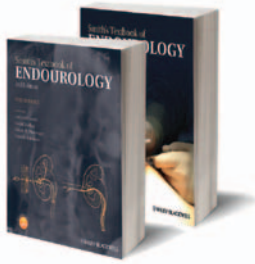
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ECGs for Prehospital Emergency Care

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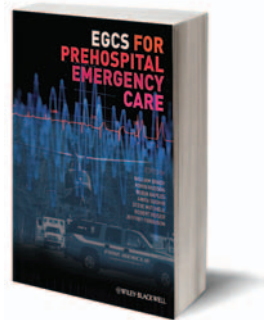
ROBERT REISER & JEFFREY FERGUSON

University of Virginia; Georgetown University; University of Virginia; University of Washington; University of Virginia; East Carolina University

- ❖ ECG interpretation is now an important aspect of Emergency Medical Services training with ECG machines a standard monitoring device in pre-hospital emergencies
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RICHARD HARRIGAN, AMAL MATTU, PETER ROSEN & EDWARD ULLMAN

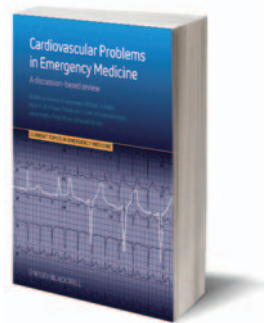
Harvard Medical School and Beth Israel Deaconess Medical Center, Boston; University of Virginia Health Sciences Centre, Charlottesville; Partners Healthcare; University of California at San Diego; Temple University, Philadelphia; University of Maryland School of Medicine; University of Arizona; Harvard Medical School

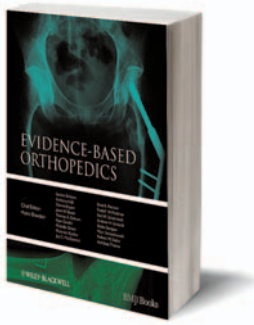
- ❖ A unique book in emergency medicine providing real discussions on emergency cardiac cases by world famous emergency physicians
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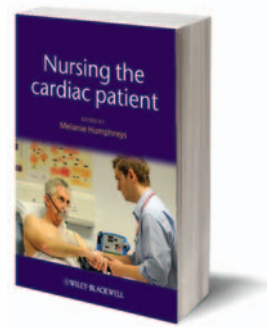
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Clinical Case Studies in Home Health Care

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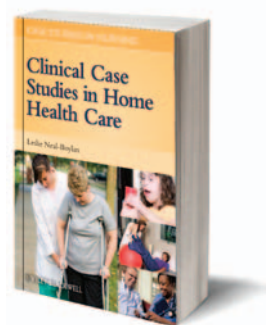
Southern Connecticut State University, USA

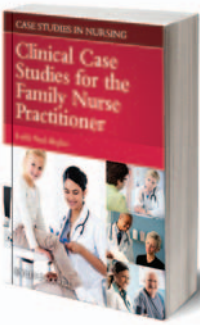
- ❖ Interdisciplinary care plans provided in each case
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- ❖ Intriguing cases illustrating a range of patient needs and complexities of care
- ❖ Cases written by leading experts in the field

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SERIES: CASE STUDIES IN NURSING

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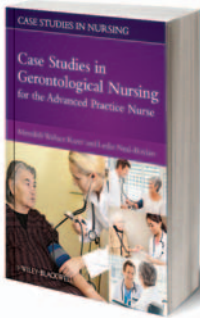
Southern Connecticut State University, USA

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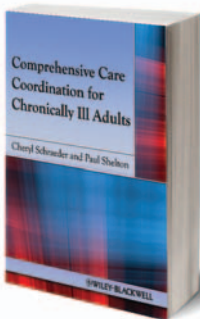
Fairfield University, USA; Southern Connecticut State University, USA

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- ❖ Written by experts in the field from a variety of practice settings

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SERIES: CASE STUDIES IN NURSING

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Comprehensive Care Coordination for Chronically Ill Adults

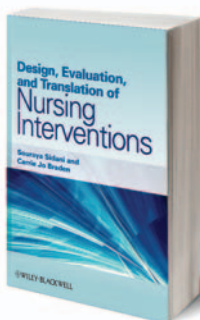
CHERYL SCHRAEDER & PAUL S. SHELTON

Both of University of Illinois at Chicago, USA

- ❖ Comprehensive Care Coordination for Chronically Ill Adults provides thorough discussion and background on theoretical concepts of care, including a complete profile of current demographics and chapters on current models of care, intervention components, evaluation methods, health information technology, financing, and educating an interdisciplinary team, and uses multiple case studies from various settings to illustrate successful comprehensive care coordination in practice.
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- ❖ Includes key information on roles within the interdisciplinary team
- ❖ Illustrates successful comprehensive care coordination in practice with multiple case studies from various settings

READERSHIP: nurse, physician and social work leaders in community health, primary care, education and research, and health policy makers.

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- ❖ Written by experts in the field

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Lung Cancer

A Multidisciplinary Approach

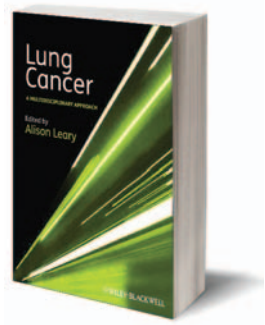
ALISON LEARY

Royal Brompton and Harefield NHS Foundation Trust

- ❖ A comprehensive, evidence-based guide to lung cancer
- ❖ Illustrative case studies used throughout
- ❖ Contributions from respected healthcare professionals in the field

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- ❖ Adds new sections on chinchillas, guinea pigs, and rodents, with over 100 topics new to this edition
- ❖ Presents additional topics and complete updates to the existing ferret and rabbit sections
- ❖ Topics are listed alphabetically for efficient research and quick reference
- ❖ Includes Client Education Handouts, available on a companion website at www.wiley.com/go/oglesbee for use in the veterinary clinic

READERSHIP: General practitioners treating exotic companion animals, exotic animal veterinarians, and veterinary students

JUL 2011 656PP 978-0-813-82018-7 CL £58.99 €70.80



Essentials of Small Animal Anesthesia and Analgesia

2nd Edition

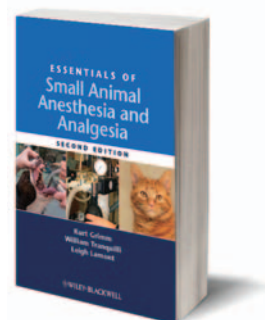
KURT A. GRIMM, WILLIAM J. TRANQUILLI & LEIGH LAMONT

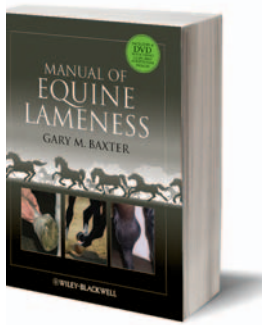
Veterinary Specialist Services Pc; University of Illinois; University of Prince Edward Island

- ❖ Practical, user-friendly distillation of *Lumb and Jones' Veterinary Anesthesia and Analgesia*
- ❖ Combines the authority of *Lumb and Jones'* with the accessibility of a quick-reference manual
- ❖ Allows readers to easily delve deeper into the subject matter by referencing information to *Lumb and Jones'*
- ❖ Offers new chapters on equipment and management of patients with specific conditions developed specifically for this book
- ❖ Fully revised throughout, with updated chapters and an increased focus on pain management
- ❖ Includes access to a companion website with review questions and answers and images

READERSHIP: Veterinary practitioners, students, and technicians

OCT 2011 544PP 978-0-813-81236-6 PR £44.99 €54.00





Manual of Equine Lameness

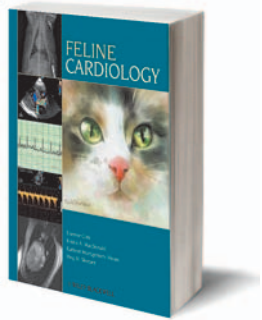
GARY M. BAXTER

Colorado State University

- ❖ Presents key information on diagnosing and treating lameness in horses
- ❖ Offers a distillation of topics from *Adams and Stashak's Lameness and Horses* to provide authoritative information in a fast-access format
- ❖ Organized into brief chapters to provide a quick reference ideal for the clinical setting
- ❖ Focuses on clinically relevant information for use in daily practice
- ❖ Includes a DVD with practical supplements, including additional anatomical images, video clips demonstrating key procedures such as intrasynovial injections, and examples of lameness conditions in motion

READERSHIP: Equine practitioners and veterinary students

SEP 2011 480PP 978-0-813-81546-6 PR £51.99 €62.40



Feline Cardiology

ETIENNE CÔTÉ, KRISTIN A. MACDONALD, KATHRYN M. MEURS & MARGARET M. SLEEPER

University of Prince Edward Island, Canada; Animal Care Center of Sonoma, California, USA; Washington State University, Washington, USA; University of Pennsylvania, Philadelphia, Pennsylvania, USA

- ❖ First book devoted entirely to recognition and management of cardiovascular disease in the domestic cat
- ❖ Covers advanced, state-of-the-art material, including cardiac biomarkers, cardiac magnetic resonance imaging, current approaches for screening programs, and pre-breeding evaluation of cats for heart disease
- ❖ Provides practical approaches to evaluating and treating heart disease in cats
- ❖ Answers common and challenging clinical questions, with the most space given to the most commonly encountered feline cardiovascular diseases
- ❖ Offers the very latest treatment information in individual disease chapters and in the cardiac drug formulary
- ❖ Includes a wealth of information not available in other sources, such as comorbidities, anesthesia of suspected heart patients, drug selection, and tables of normal cardiovascular parameters in cats

READERSHIP: Feline practitioners, small animal practitioners, cardiologists, veterinary students

SEP 2011 488PP 978-0-813-81242-7 CL £96.99 €116.40

BSAVA Textbook of Veterinary Nursing

5th Edition

BARBARA COOPER, LYNNE TURNER & LIZ MULLINEAUX

All of The College of Animal Welfare

- ❖ The new edition of this classic core textbook which has been fully revised and updated
- ❖ Reflects the current syllabus, including equine content for the first time, while retaining additional useful chapters that are no longer covered in the syllabus
- ❖ Each chapter contains learning objectives and self assessment questions
- ❖ Includes new chapters on professional responsibilities, professional development and learning

READERSHIP: TBA

SEP 2011 252PP 978-1-9053-1926-8 PR £80.00 €96.00

Tyldesley and Grieve's Muscles, Nerves and Movement in Human Occupation

IAN MCMILLAN, GAIL CARIN-LEVY, JUNE GRIEVE & BARBARA TYLDESLEY

Queen Margaret's University, Edinburgh; Queen Margaret's University, Edinburgh; formerly of London School of Occupational Therapy, UK; formerly of the Department of Occupational Therapy, Liverpool University, UK

- ❖ Established as the leading textbook for the study of movement by occupational therapists
- ❖ This 4th edition extensively updated and revised with full colour illustrations
- ❖ Provides a foundation for the study of movement and understanding of the way in which bones, joints, muscles and nerves allow the body to perform movement during daily activities
- ❖ Complexity of detail increasing as the book progresses, with later chapters consider the integration of sensory and motor processes for the planning and execution of movement
- ❖ Case histories with self assessment exercises, summary boxes, key terms, practice notepads

READERSHIP: Occupational Therapy students, Occupational Therapists, Physiotherapy students

DEC 2011 304PP 978-1-4051-8929-3 PR £29.99 €36.00

Occupational Science: Society, Inclusion, Participation

Edited by **GAIL WHITEFORD & CLARE HOCKING**

McQuarie University, Australia; Auckland University of Technology, New Zealand

- ❖ Written by an internationally renowned team of contributors, this book is the leading text for occupational therapists, occupational scientists, students and researchers, offering a truly comprehensive critique of the field.
- ❖ First comprehensive text on occupational science, with review of the current literature and the knowledge generated to date
- ❖ Addresses the philosophical, theoretical and scientific bases that underpin and inform everyday decision making in occupational therapy practice
- ❖ Fully up to date with the latest thinking and research
- ❖ Links theory to practice

READERSHIP: Undergraduate and postgraduate students of occupational science, postgraduate students of occupational therapy, Occupational Therapy and Occupational Science academics and researchers

DEC 2011 256PP 978-1-4443-3316-9 PR £32.50 €39.00

Young People and Alcohol

JOHN SAUNDERS & JOSEPH REY

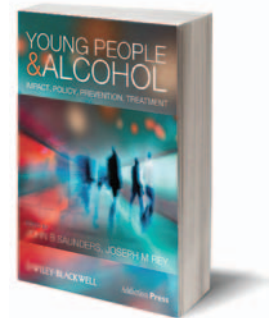
Centre for Youth Substance Abuse Research, Faculty of Health Sciences, University of Queensland, Brisbane and Faculty of Medicine, University of Sydney, Australia; Head of Psychiatry, Notre Dame University Medical School Sydney; Honorary Professor, University of Sydney Medical School, Sydney, Australia

- ❖ Authoritative and up to date information about the effects of alcohol use in the young and, particularly, its management, with an emphasis on interventions whose effectiveness is supported by evidence.
- ❖ Written by an internationally renowned team of contributors, chapters span five key sections: The Phenomenon and Impact of Youth Drinking; Neurobiology; Prevention and Early Intervention; Assessment and Diagnosis; and Treatment.
- ❖ Focus is on treatment, relating the science to everyday clinical practice.
- ❖ Evidence-based
- ❖ Evidence-based with tables, flowcharts, further resources and glossary.

READERSHIP: Psychiatrists, psychologists, researchers and educators in addiction, libraries, postgraduate students of addiction studies, policy makers and alcohol counsellors

SERIES: ADDICTION PRESS

MAY 2011 384PP 978-1-4443-3598-9 PR £39.99 €48.00



Food, Nutrition and Dietetics

A Multicultural Handbook

ARUNA THAKER & ARLENE BARTON

Wandsworth NHS Teaching PCT, London; Lecturer in Clinical Nutrition and Dietetics, Faculty of Science, University of Nottingham

- ❖ Practical handbook written by experienced dietitians
- ❖ Supported by the British Dietetic Association
- ❖ Includes research on migration studies and chronic disease states
- ❖ Provides accessible information for health professionals in this important area

READERSHIP: Nutritionists, dietitians, related health professionals and students studying in these areas

NOV 2011 352PP 978-1-4051-7358-2 PR £39.99 €48.00

Phytonutrients

Edited by **ANDREW SALTER, GREGORY TUCKER & HELEN WISEMAN**

- ❖ Essential purchase for nutritionists, food scientists and plant biochemists, particularly those dealing with nutrients from plants, and their use in the human diet.
- ❖ Covers the biochemistry and nutritional importance of a wide range of phytonutrients, including all the major macronutrients as well as the micronutrients and 'non-essential' nutrients.
- ❖ Deals with the role of plants in the human diet and covers each of the major phytonutrient groups.
- ❖ Addresses methods used to manipulate levels of phytonutrients in the diet, such as fortification, supplementation and the use of genetically modified plants.

READERSHIP: Nutritionists, food scientists, food technologists, dietitians, plant scientists, biochemists and chemists working in academia, teaching, research and commercial organisations. Those involved in formulation of foodstuffs and dietary supplements in food and pharmaceutical companies.

DEC 2011 352 PP 978-1-4051-3151-9 PR £99.99 €118.80

ISBN: 978-1-4051-3151-3



TEXT BOOK

Fundamentals of Molecular Virology

2nd Edition

NICHOLAS H. ACHESON*McGill University, Canada*

- ❖ *Fundamentals of Molecular Virology* is presented in a style which relates to today's students and lecturers.
- ❖ The text provides a thorough presentation of basic and contemporary concepts in virology for a student's first exposure to the field.
- ❖ Provide key assets to help students focus on the important information: chapter outlines, informative subheadings, key terms, extensive glossary and selected journal references.
- ❖ Feature exciting and current developments in molecular virology.

READERSHIP: Undergraduate students, graduate students, postdoctoral fellows and research scientists working with viruses

AUG 2011 528PP 978-0-470-90059-8 PR £ 42.99 €51.60

Fundamental Molecular Biology

2nd Edition

LIZABETH A. ALLISON*College of William and Mary, Virginia, USA*

- ❖ Distills the essential concepts of molecular biology in a clear and engaging style
- ❖ Includes current examples, experimental evidence, disease boxes, tool boxes and focus boxes
- ❖ Relies primarily on eukaryotic examples but includes key comparisons with prokaryotic organisms where it is appropriate
- ❖ Features all-original, full colour artwork, a student tutorial CD-ROM, and an interactive website featuring all artwork, animations of key processes, and useful student comprehension material

READERSHIP: Upper-level undergraduate students in Molecular Biology courses.

SEPT 2011 978-1-1180-5981-4 CL £42.99 €138.40

TEXT BOOK

Microbiology: Applications and Connections

DAVID WESSNER, CHRISTINE DUPONT, TREVOR CHARLES & KELLI PRIOR*Davidson College; University of Waterloo; University of Waterloo and Finger Lakes Community College*

- ❖ This new textbook and fully-integrated WileyPLUS teaching and learning environment promotes active learning and helps students develop a meaningful connection with the material through the incorporation of primary literature, applications and examples.
- ❖ The book offers an ideal balance between comprehensive in-depth coverage of core concepts, while employing a student-centric narrative style that incorporates many relevant applications and a unique focus on current research and experimentation.
- ❖ Wessner frames information around the three pillars of physiology, ecology and genetics; which highlights their interconnectedness and helps students see a bigger picture.
- ❖ Students' engagement with the real sources builds their critical reasoning skills and deepens their understanding of what microbiologists do in everyday life.

READERSHIP: Undergraduate biology students.

DEC 2011 800PP 978-0-471-69434-2 CL £44.99 €54.00

TEXT BOOK

Tag-based Next Generation Sequencing

GÜNTER KAHL & T. MATTHIAS HARBERS*University of Frankfurt, Germany; DNAFORM Inc., Chiba, Japan*

- ❖ Gives an overview on recently developed tag-based approaches along with means of their data analysis, together with introductions to next generation sequencing methods, protocols and user guides
- ❖ Highly relevant topic for modern biomedical research and for the development of personalized medicine
- ❖ Written by a global team of renowned experts and edited by best-selling author Günter Kahl
- ❖ Covers academic as well as industry developments

READERSHIP: Geneticists, gene technologists, molecular biologists, biotechnologists, biotechnological industry, lecturers in molecular biology, libraries at hospitals, company libraries, libraries at university institutes, cancer researchers

SERIES: MOLECULAR PLANT BIOLOGY

OCT 2011 870PP 978-3-527-32819-2 CL £125.00 €150.00

Fundamental Medical Mycology

ERROL REISS, H. JEAN SHADOMY & G. MARSHALL LYON

Emory University School of Medicine, USA

- ❖ In-depth coverage of each fungal disease and its etiologic agents from both the laboratory and clinical perspective
- ❖ Numerous mini-case presentations in every chapter and richly illustrated throughout
- ❖ Determinants of pathogenicity discussed in modern molecular terms
- ❖ Thorough coverage of antifungal agents, therapy, and susceptibility testing

READERSHIP: Medical students, interns, residents, and fellows

OCT 2011 450PP 978-0-470-17791-4 CL £60.50 €72.60



Immunology

Mucosal and Body Surface Defences

ANDREW WILLIAMS

Imperial College London, UK

- ❖ Covers the basic aspects of immunology with a particular focus on the mucosa, the largest immune organ in the body
- ❖ Provides a step-by-step explanation of how the immune system clears pathogens from the host from the moment the pathogen enters the host to the moment it is destroyed by the immune system
- ❖ Modern and exciting topics of immunology are detailed throughout each chapter.
- ❖ Covers vital topics rarely explored, such as the immunology and biology of mucosal immunity, cytokines and chemokines and homeostasis and immune surveillance

READERSHIP: BSc and MSc Students; those studying for a PhD degree in departments of biology, biochemistry, biomedicine, medicine, veterinary sciences, and immunology; Pharmaceutical Industry

NOV 2011 472PP 978-0-470-09004-6 PR £34.95 €42.00 / 978-0-470-09003-9 CL £90.00 €108.00



From DNA to Social Cognition

RICHARD P. EBSTEIN, SIMONE SHAMAY-TSOORY & SOO HONG CHEW

Hebrew University, Israel; University of Haifa, Israel; Hong Kong University of Science and Technology, Hong Kong

- ❖ Brings together the methods, perspectives, and knowledge of the geneticists, neuroscientists, economists, and psychologists that are so integral to this field of research
- ❖ Authoritative reference for the multidisciplinary team of researchers studying social cognition with backgrounds in economics, psychology, and genetics
- ❖ Includes introductory material by the editors to establish links between sections and chapters
- ❖ Covers the latest advances in the area

READERSHIP: Research scientists, graduate students and post-docs in the fields of genetics, psychology, neurosciences, economics, psychiatry, and psychopharmacology

OCT 2011 272PP 978-0-470-54396-2 CL £86.95 €104.40

Exploring Immunology

An Evidence-based Approach

GORDON MACPHERSON & JONATHAN M. AUSTYN

University of Oxford, UK

- ❖ The first introductory immunology textbook using evidence based approach
- ❖ Easy to read, yet giving a thorough insight into the principles of the immune system, this title is a perfect introductory reading before starting an immunology course
- ❖ Using carefully selected experimental and clinical data the reader is encouraged to critically think about the principle of immunology

READERSHIP: Students in molecular biology, biology students, students in medicine, lecturers in biology, immunologists

NOV 2011 334PP 978-3-527-32430-9 CL £85.00 €102.00 / 334PP 978-3-527-32412-5 PR £32.50 €39.00





Discover Microbes

Bacteria, Archaea and Viruses

GERHARD GOTTSCHALK

University of Goettingen, Germany

- ❖ Unique, introductory text offering a comprehensive overview of the astonishing variety and abilities of bacteria
- ❖ Clearly written, fascinating but still very educational; written by one of the best known microbiologists of our time
- ❖ Teaching is supported by colour images throughout, and each chapter has a compact tutorial section with schemes on the biochemistry and metabolic pathways of bacteria

READERSHIP: Undergraduate students, biologists, microbiologists, high school graduates/A-Level graduates, food technologists, bacteriologists, students of biotechnology

NOV 2011 300PP 978-3-527-32845-1 PR £45.00 €54.00

Human Biology

An Evolutionary and Biocultural Perspective

2nd Edition

SARA STINSON

Queens College, City University of New York, USA

- ❖ A comprehensive introduction to the field written by four expert authors working in close collaboration toward a single-author style and format
- ❖ All first edition content extensively rewritten and newly illustrated
- ❖ Two completely new chapters on (1) race and culture and its ties to human biology, and (2) a concluding chapter highlighting increasingly multi- and inter-disciplinary nature of the book's subject areas
- ❖ Pedagogical and textbook features enhanced, including boxed features, chapter summaries, set of recommended readings at the end of each chapter, and glossary of important terms

READERSHIP: All levels of undergraduate and graduate students taking courses in Human Biology, Genetics, Evolutionary Studies, Anthropology, and Population Studies; professionals and academics in these and related fields

DEC 2011 780PP 978-0-470-17964-2 CL £60.50 €72.60



Royal Entomological Society Book of British Insects

PETER BARNARD

Royal Entomological Society, UK

- ❖ A high-quality, modern account celebrating all 558 families of British insects
- ❖ A systematic review of the 27 orders of British insects, with information on the classification, numbers of species, overall biology and importance of all families, including further references for detailed identification
- ❖ Beautifully illustrated throughout in full colour with photographs by experienced wildlife photographers to show the range of diversity, both morphological and behavioural, among the 24,000 species

READERSHIP: The professional or keen amateur entomologist. The style of the book will also appeal to non-entomologists who want something with more detailed and specialist information on British insects than the average guide

OCT 2011 368PP 978-1-4443-3256-8 CL £39.95 €48.00



Applied Urban Ecology

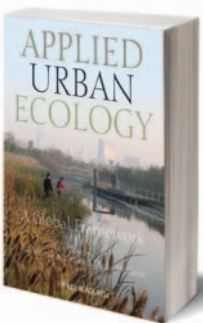
MATTHIAS RICHTER & ULRIKE WEILAND

Helmholtz Centre for Environmental Research, Ufz, Germany

- ❖ Focuses on "applied" aspects of urban ecology, rather than theory
- ❖ Based on a five-year study "Urban ecology – an international comparison" and investigations into research questions at a number of large research institutes
- ❖ Bridges the gap between theory and practice and presents a broad spectrum of recent urban ecology approaches from systems research to environmentally sound urban design, exemplified by selected case studies from different continents

READERSHIP: Advanced undergraduate and graduate students of urban ecology, urban planning and development, conservation science, human geography, and landscape ecology

SEP 2011 244PP 978-1-4443-3339-8 CL £85.00 €102.00 / 978-1-4443-3340-4 PR £39.99 €48.00



Antarctic Ecosystems

An Extreme Environment in a Changing World

ALEX ROGERS, EUGENE MURPHY, ANDREW CLARKE & NADINE JOHNSTON

University of Oxford; British Antarctic Survey, UK

- ❖ Leading polar scientists present a synthesis of the latest research on the biological systems in Antarctica, covering organisms from microbes to vertebrate higher predators
- ❖ Integrates studies across scales of organization and complexity
- ❖ Summarizes knowledge of Antarctic ecology from gene to ecosystem levels
- ❖ Published in association with the Royal Society

READERSHIP: Research scientists involved in polar biology, policy makers, international governmental organisations and non-governmental organisations with interests in managing or conserving Antarctic ecosystems

NOV 2011 756PP 978-1-4051-9840-0 CL £85.00 €102.00



Handbook of Marine Macroalgae

Biotechnology and Applied Phycology

SE-KWON KIM

Marine Bioprocess Research Center & Department of Chemistry, Pukyong National University, South Korea

- ❖ Comprehensive handbook covering current applications of macroalgae to biotechnology
- ❖ Covers recent advances as well as future research trends
- ❖ Describes the barriers and opportunities for commercialization of macroalgae biotechnology
- ❖ Includes applications of macroalgae biotechnology to a wide range of disciplines, including immunology, neurobiology, agriculture, nutrition and industry

READERSHIP: Researchers, graduates and professionals in phycology, biotechnology, pharmacology, nutrition, agriculture and industry, library sales, research institutions

NOV 2011 608PP 978-0-470-97918-1 CL £135.00 €162.00

Vegetation, Description & Analysis

A Practical Approach

2nd Edition

MARTIN KENT & PADDY COKER

University of Plymouth, UK; University of Greenwich, UK

- ❖ Updated from the first edition, including new material on: nature of plant communities; transitional areas between plant communities; induction and deduction of plant ecology, diversity indices and dominance diversity curves; multivariate analysis in ecology
- ❖ New illustrations with a greater number of photographs and figures
- ❖ Companion website with supplementary material

READERSHIP: Primary audience: Plant ecologists and biogeographers, undergraduates in biological science, environmental science and geography courses. Secondary Audience: Researchers and lecturers in ecology, biogeography, environmental science botany, agriculture, forestry and biological conservation, Government and local authority ecologists, consultants and nature reserve managers and wardens.

DEC 2011 432PP 978-0-471-49093-7 PR £32.50 €39.00 / 978-0-471-49092-0 CL £90.00 €108.00



Horticultural Reviews

Volume 39

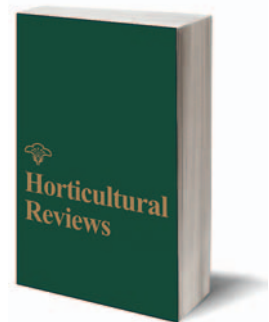
JULES JANICK

Purdue University, USA

- ❖ State-of-the-art reviews on topics in horticultural science and technology covering both basic and applied research
- ❖ Topics covered include the horticulture of fruits, vegetables, nut crops, and ornamentals
- ❖ These reviews articles; written by world authorities, bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers

READERSHIP: Libraries, horticulturists in industry and research, plant science researchers

NOV 2011 452PP 978-1-1180-9678-9 CL £150.00 €180.00





Plant Breeding Reviews

Volume 35

JULES JANICK

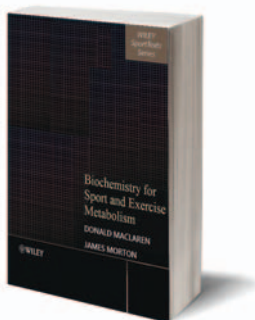
Purdue University, USA

- ❖ Presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods
- ❖ Numerous references provide easy, time saving and cost effective access to the primary literature
- ❖ The emphasis of the series is on methodology, a fundamental understanding of crop genetics, and applications to major crops
- ❖ *Plant Breeding Reviews* is sponsored by the American Society for Horticultural Science.

READERSHIP: Libraries, plant breeders, crop scientists, geneticists, plant molecular biologists

SERIES: PLANT BREEDING REVIEWS

OCT 2011 432PP 978-1-1180-9679-6 CL £150.00 €180.00



Biochemistry for Sport and Exercise Metabolism

DONALD MACLAREN & JAMES MORTON

Liverpool John Moores University, UK

- ❖ Part of the Wiley Sport Series, this text emphasises the relevance of biochemistry firmly within the context of sport and exercise science for those with little background in the sciences
- ❖ A clear and accessible method of presenting the subject
- ❖ Using this book, students will be able to understand what happens when they exercise and how and why different exercise affects biochemical processes
- ❖ Well-regarded authors with many years teaching experience

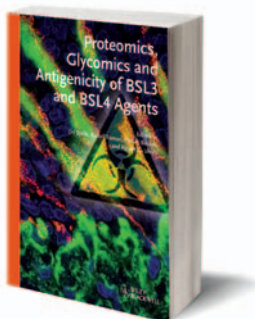
READERSHIP: Primary Market: Undergraduate students taking courses in biochemistry usually in year two. Secondary Market: Postgraduates on a variety of Masters courses including Sports Medicine, Sports Nutrition

SERIES: WILEY SPORT SERIES

NOV 2011 240PP 978-0-470-09185-2 PR £29.99 €36.00 / 978-0-470-09184-5 CL £80.00 €96.00



TEXT BOOK



Proteomics, Glycomics and Antigenicity of BSL3 and BSL4 Agents

JIRI STULIK, RUDOLF TOMAN, PATRICK BUTAYE & ROBERT G. ULRICH

Ministry of Defence, Fac. Military Health Service, Czech Republic; Slovak Academy of Sciences, Slovak Republic; Veterinary and Agrochemical Research Center, Belgium; Army Med. Research Inst., USA

- ❖ The first coverage of proteomic and glycomic analysis of highly dangerous pathogens
- ❖ Written by leading experts in the EU and the US
- ❖ A must have for all professionals dealing with BSL3 and/or BSL 4 agents

READERSHIP: Microbiologists, military authorities, libraries at hospitals, libraries at universities, public health agencies, protein chemists

OCT 2011 256PP 978-3-527-32780-5 CL £90.00 €108.00

Effective Learning in the Life Sciences

How Students Can Achieve Their Full Potential

DAVID ADAMS

University of Leeds, UK

- ❖ Introduces the latest, cutting edge resources for teaching and learning in the life sciences
- ❖ Illustrates the benefits of creative thinking in laboratory, field and office work, thus placing strong emphasis on students thinking for themselves and actively learning about their chosen subject
- ❖ Includes worked examples and case studies
- ❖ An accessible resource for both students and teachers

READERSHIP: Academics and students of the biosciences

OCT 2011 296PP 978-0-470-66157-4 PR £29.95 €36.00 / 978-0-470-66156-7 CL £85.00 €102.00



TEXT BOOK

Aquaculture and Behavior

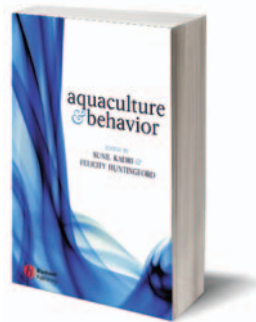
FELICITY HUNTINGFORD & SUNIL KADRI

Fish Biology Research Group, University of Glasgow, UK; Aquaculture Innovation, University of Glasgow, UK

- ❖ Written by a team of international experts, this text details how to avoid bad husbandry relating to financial losses
- ❖ Summarises the current understanding of the behavioural biology of farmed species
- ❖ Provides information which, when properly applied, will result in significant economic benefits

READERSHIP: Upper-level students in fish biology, animal behaviour and aquaculture, e.g. MSc courses in animal behaviour, fisheries management, aquaculture. Fish farm managers, researchers in fish biology and aquaculture

NOV 2011 352PP 978-1-4051-3089-9 PR £39.50 €47.40



Oxidative Stress in Aquatic Ecosystems

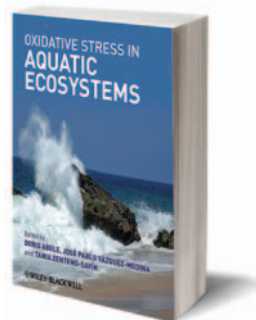
DORIS ABELE, JOSE PABLO VAZQUEZ-MEDINA & TANIA ZENTENO-SAVIN

Alfred Wegener Institute for Polar and Marine Research, Germany; Centro De Investigaciones Biologicas Del Noroeste, Mexico

- ❖ This comprehensive volume describes oxidative stress phenomena in different climatic zones and groups of organisms, taking into account specific habitat conditions and how they affect susceptibility to ROS damage
- ❖ A detailed methods section is included which supplies complete protocols for analyzing
- ❖ Reactive oxygen species production, oxidative damage, and antioxidant systems
- ❖ Methods are also evaluated with respect to applicability and constraints for different types of research

READERSHIP: Researchers in environmental and ecological toxicology and environmental chemistry and ecophysiology. Also recommended as supplementary reading for graduate students

OCT 2011 548PP 978-1-4443-3548-4 CL £95.00 €114.00



The Banggai Cardinalfish

Natural History, Conservation, and Culture of *Pterapogon Kauderni*

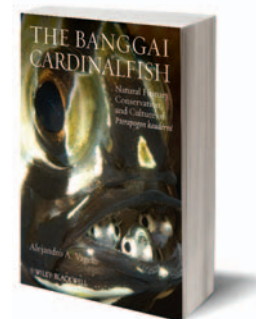
ALEJANDRO A. VAGELLI

Rutgers University, USA

- ❖ A comprehensive single source of information on this important species of fish
- ❖ Written by the world's leading expert on this group
- ❖ Covers natural history, evolution, systematics, ecology, conservation, and captive breeding techniques
- ❖ Also includes an appendix offering information on juvenile mortality reduction, and common diseases

READERSHIP: Ichthyology students and researchers working on fish biology, ecology and conservation, and for marine ornamental fish hobbyists and aquarium professionals

OCT 2011 224PP 978-0-470-65499-6 CL £100.00 €120.00



Salmon Lice

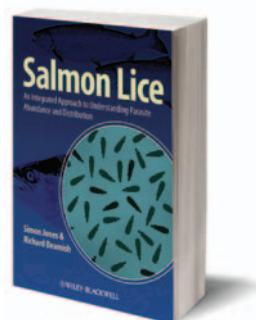
SIMON JONES & RICHARD BEAMISH

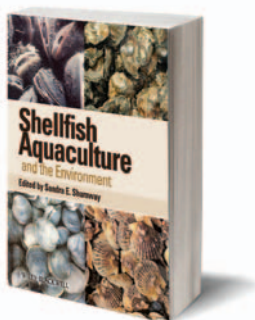
DFO, Canada

- ❖ In-depth coverage of key parasite *Lepeophtheirus salmonis*, impacting viability and sustainability of salmonid fisheries and aquaculture
- ❖ Practical assessment of the Salmon Lice issue
- ❖ Reviews management techniques used in salmonid fisheries and aquaculture

READERSHIP: Fish health researchers, aquaculture and fisheries professionals, seafood industry personnel

OCT 2011 336PP 978-0-813-81362-2 CL £130.00 €156.00





Shellfish Aquaculture and the Environment

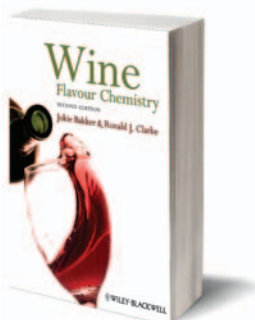
SANDRA E. SHUMWAY

University of Connecticut Department of Marine Sciences, USA

- ❖ Focuses primarily on the issues surrounding environmental sustainability of shellfish aquaculture
- ❖ Provides key background on the parameters needed for new sitings and expansion of existing aquaculture operations, habitat management, and potential restoration
- ❖ Includes baseline information to aid in the development and evaluation of best management practices
- ❖ Chapters cover topics such as trophic interactions, applications of dynamic modelling, eutrophication, health management, and the implications of global climate change for molluscan aquaculture

READERSHIP: Shellfish farm managers, fisheries scientists and personnel, ecologists, aquaculture scientists and researchers

SEP 2011 424PP 978-0-813-81413-1 CL £99.99 €120.00



Wine

Flavour Chemistry

2nd Edition

J. BAKKER, R. J. CLARKE

UK

- ❖ Revised and updated second edition of the leading book on the components of wine and their underlying chemistry
- ❖ Comprehensive coverage of all aspects of the science of wine flavour
- ❖ Essential reading for all those involved in wine production, trade and research
- ❖ Includes both table wines and fortified wines, such as Sherry, Port and the newly added Madeira

READERSHIP: Food and beverage scientists, Vineyard managers or owners, Students on enology courses, Lecturers on enology courses, Wine institutes

OCT 2011 448PP 978-1-4443-3042-7 CL £130.00 €156.00

Effects of Organic Production on Food Quality

ROBERT BLAIR

UK

- ❖ Asks the question: What advantages does organic food really offer?
- ❖ First comprehensive and scientific book on how organic production methods influence the safety and quality of foods
- ❖ Authoritative, unbiased and up-to-date examination of relevant scientific research
- ❖ Examines the questions of whether organic food is more nutritious and/or more healthy

READERSHIP: Food science professionals, product development professionals and food marketers and management, toxicologists, QA/QC professionals, food engineers and food microbiologists

DEC 2011 300PP 978-0-813-81217-5 CL £120.00 €144.00



Teas, Cocoa and Coffee

Plant Secondary Metabolites and Health

ALAN CROZIER, HIROSHI ASHIHARA & FRANCISCO TOMÁS-BARBÉBAN

University of Glasgow, UK; Ochanomizu University, Japan; Spanish Council for Scientific Research (CSIC), Spain

- ❖ Brings together the information on the biochemistry and health benefits of teas, coffee and cocoa, a subject of interest in industry and research
- ❖ Includes a chapter on the use of genetic engineering to enhance the levels of potentially protective compounds in teas, coffee and cocoa
- ❖ Internationally respected Editors and team of contributors

READERSHIP: Food scientists and technologists involved in the production of tea, cocoa and coffee products, as well as those who use functional ingredients in other products; nutritionists; agricultural scientists working on the cultivation of these crops

NOV 2011 264PP 978-1-4443-3441-8 CL £130.00 €156.00

Ozone in Food Processing

C. P. O'DONNELL, B. K. TIWARI & P. J. CULLEN

UCD Institute of Food and Health, Ireland; Manchester Food Research Centre, UK; Dublin Institute of Technology, Ireland

- ❖ Comprehensive overview of ozone processing in the food industry including waste management
- ❖ Examines applications for various food groups (grains, fruits & vegetables, meat & meat products, seafood), including evaluations of impact on quality and safety profiles
- ❖ Addresses global regulatory and legislative requirements for ozone processing
- ❖ Provides recommendations and opportunities for various health and safety-related issues

READERSHIP: Food scientists, engineers and microbiologists working in food processing, as well as academic researchers and lecturers with an interest in these subjects

DEC 2011 320PP 978-1-4443-3442-5 CL £120.00 €144.00

Functional Foods, Nutraceuticals and Degenerative Disease Prevention

GOPINADHAN PALIYATH, MARICA BAKOVIC, KALIDAS SHETTY & MURALEEDHARAN G. NAIR

University of Guelph, Canada; University of Massachusetts at Amherst, USA

- ❖ A compilation of different segments of functional foods and nutraceuticals focusing on their mechanism of action in the human body leading to disease prevention
- ❖ Takes a nutrigenomics approach to disease prevention and highlights their specific biochemical/molecular mechanisms of action and discusses the physiological roles of nutraceuticals
- ❖ Considers global implications of changes in food habits and how diseases are becoming prevalent in some populations

READERSHIP: Researchers in food science, health and nutrition science; food/health industry professionals; research establishments; university libraries; graduate students in food science, nutrition, health sciences

OCT 2011 500PP 978-0-813-82453-6 CL £115.00 €138.00

Handbook of Food Safety Engineering

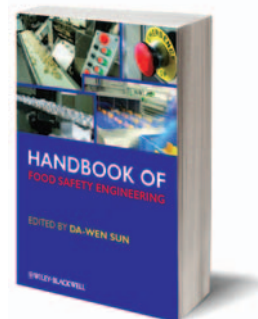
DA-WEN SUN

UCD Institute of Food and Health, Ireland

- ❖ Comprehensive and substantial overview of the emerging field of food safety engineering
- ❖ A key text on this emerging and important approach to ensuring food safety through engineering principles
- ❖ Brings together microbiology fundamentals, detection techniques, microbial inactivation techniques and food safety management systems
- ❖ Written by a team of highly active international experts with both academic and professional credentials

READERSHIP: Food scientists, microbiologists and food engineers based in food manufacturing, research and academia

NOV 2011 840PP 978-1-4443-3334-3 CL £180.00 €216.00



Teaching Geographic Information Science and Technology in Higher Education

DAVID UNWIN, NICHOLAS TATE, KENNETH FOOTE & DAVID DIBIASE

Birkbeck College London; University of Leicester, UK; University of Colorado; Pennsylvania State University, USA

- ❖ Innovative book taking a look at the latest teaching developments in the course provision of GI Science
- ❖ Anticipates some of the opportunities and challenges in GISc&T education in the next decade
- ❖ Edited by leaders in the field of GIS who have been at the forefront of education innovation in GI Science and allied science subjects

READERSHIP: Primary market: GISc&T scientists, GISc&T educators at all levels in education, those teaching with GIS. Secondary Market: Professionals in education and disciplines related to GISc&T

DEC 2011 488PP 978-0-470-74856-5 CL £75.00 €90.00

Recent Advances in the Tectonics of Sedimentary Basins

CATHY BUSBY & ANTONIO AZOR PÉREZ

University of California, USA; Universidad de Granada, Spain

- ❖ Covers sedimentary basins and the way they form in time and space and the state of the art in research on sedimentary tectonics
- ❖ Subject of great strategic and commercial importance (ie. oil and gas reserves are located in sedimentary basins)
- ❖ Collection of chapters by top researchers worldwide
- ❖ A must-have volume for all sedimentologists and petroleum geologists, and supplementary reading for basin analysis courses worldwide

READERSHIP: Senior undergraduates and professionals in the fields of Geology, Sedimentology, Stratigraphy or related disciplines

OCT 2011 656PP 978-1-4051-9465-5 CL £90.00 €108.00



Soil Genesis and Classification

6th Edition

STANLEY W. BUOL

North Carolina State University, USA

- ❖ Builds on the success of the previous editions to present an unparalleled resource on soil formation and classification
- ❖ 12 page colour plate section featuring soil profiles
- ❖ Inclusion of new classification systems in China and Brazil
- ❖ Re-organization of soil formation topics to expand weather and solum formation

READERSHIP: Soil science students, graduate students, soil scientists, agricultural and natural resources engineers and economists and agricultural engineering and natural resources personnel

SEP 2011 560PP 978-0-813-80769-0 CL £60.00 €72.00



TEXT BOOK

Environmental Hazards and Disasters

Contexts, Perspectives and Management

BIMAL KANTI PAUL

Kansas State University, USA

- ❖ An accessible intermediate level text on natural hazards and disasters for those students wishing to specialise in the subject
- ❖ Includes coverage of previously neglected areas of disaster studies such as gender as well as numerous global case studies and examples of natural hazards and disasters to enhance student understanding
- ❖ Includes chapters on the application of GIS in hazard studies; resiliency; disasters and poverty; climate change and sustainability and development

READERSHIP: Primary Market: Upper-level undergraduate and Graduate students. Secondary Market: Emergency managers, planners, both public and private organizations involved in disaster response and mitigation, hazard researchers

NOV 2011 344PP 978-0-470-66001-0 PR £37.50 €45.00 / 978-0-470-66002-7 CL £90.00 €108.00



TEXT BOOK



The Atmosphere and Ocean

A Physical Introduction

Third Edition

NEIL C. WELLS

University of Southampton, UK

- ❖ Provides a description of the atmosphere and ocean with emphasis on their physical properties and interdependence
- ❖ Fully revised and updated third edition of student friendly physical introduction to the atmosphere and ocean
- ❖ Now includes new chapters on observed circulation of the atmosphere and ocean, energy flows in the ocean atmosphere system, modelling the ocean and atmosphere, the ocean atmosphere system and climate

READERSHIP: Primary Market: Second or third year students taking related courses in meteorology, oceanography and atmospheric physics. Secondary Market: Postgraduate students and researchers

SERIES: ADVANCING WEATHER AND CLIMATE SCIENCE

NOV 2011 408PP 978-0-470-69468-8 PR £34.95 €42.00 / 978-0-470-69469-5 CL £85.00 €102.00



TEXT BOOK

Introduction to Geochemistry

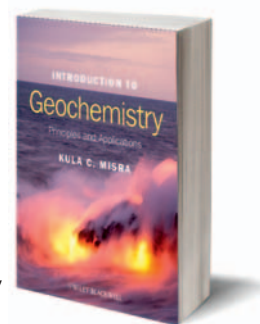
KULA MISRA

University of Tennessee, USA

- ❖ Covers a broad range of topics that bear on the distribution and abundance of elements (and isotopes) in geologic systems on different scales as a result of chemical and isotopic reactions
- ❖ Develops relevant geochemical principles in a logical sequence and with an appropriate balance between qualitative reasoning and quantitative rigor
- ❖ Emphasizes the practical applications of geochemical principles to geological systems on different scales. Teaches how to construct and interpret phase diagrams involving different variables pressure, temperature, activity, chemical potential, fugacity, partial pressure, Eh, pH, etc. as necessary to address the problem being considered
- ❖ Helps the students develop problem-solving techniques through worked-out examples and a challenging problem set at the end of each chapter

READERSHIP: Second and third year undergraduates in Earth Science departments

NOV 2011 640PP 978-1-4051-2142-2 PR £37.50 €45.00



Changing Cold Environments

A Canadian Perspective

HUGH FRENCH & OLAV SLAYMAKER

University of Ottawa, Canada; University of British Columbia, Canada

- ❖ Comprehensive coverage of the effects of global climate change on Canada's cold environments
- ❖ Clearly structured throughout with numerous photos, diagrams and tables to enhance understanding
- ❖ Clear focus on the global implications of climate change throughout with Canada's cold environments used as a template for all other major cold environments of the world
- ❖ Includes chapters on the human impact on cold environments along with the environmental hazards and the role of the cryosphere within the global system

READERSHIP: Primary Market: Second and third year undergraduates in environmental and/or earth sciences programs

Secondary Market: Background and preparatory reading for biologists, geologists, physical geographers, engineers, and planners

NOV 2011 360PP 978-0-470-69968-3 CL £80.00 €96.00

Desertification, Land Degradation and Sustainability

ANTON IMESON

University of Amsterdam, The Netherlands

- ❖ A comprehensive, yet accessible book that synthesises, integrates and adequately applies the research undertaken during the last 15 years.
- ❖ Includes numerous global case studies that provide an insight into the causes and effects of desertification and how different populations are responding to environmental change
- ❖ A unique approach that looks at different scales- from local, regional and global; processes- from physical to human; and the relationship of desertification to current global development.
- ❖ Includes a key section on the links between desertification, globalization and climate change

READERSHIP: Second/Third year undergraduates taking relevant courses within Geography, and other related Earth and Environmental Science degrees

DEC 2011 352PP 978-0-470-71449-2 PR £34.95 €42.00 / 978-0-470-71448-5 CL £90.00 €108.00



Integrated Vector Management

Controlling Vectors of Malaria and Other Insect Vector Borne Diseases

International Pesticide Application Research Centre, Imperial College, University of London, UK

- ❖ An important publication outlining the management of controlling disease transmitted by insects, including malaria, dengue, onchocerciasis, sleeping sickness and leishmaniasis
- ❖ Covers the main chemical methods of vector control, including the use of indoor residual spraying, space treatments, the use of treated bed nets and larviciding and stresses the importance of drainage schemes and improvement of houses to prevent access of indoor vectors
- ❖ Combines practical information from successful vector control programmes, including early use of DDT, and recent research into a vital resource for all those now involved in combating insect vector borne diseases

READERSHIP: Medical entomologists, government health department employees, those who provide the skills and management needed to operate successful area-wide vector management programmes. Libraries world-wide where biological sciences, medicine and agriculture are studied and taught

OCT 2011 256PP 978-0-470-65966-3 CL £75.00 €90.00



Electrical Systems – An Introduction for Non Electrical Students

SULEIMAN M. SHARKH

University of Southampton, UK

- ❖ One of the first textbooks on the basics of electrical systems for students of other engineering disciplines studying a short electrical engineering module
- ❖ Clear didactical approach provides a broad yet concise introduction to the fundamentals of electrical systems
- ❖ Exciting interdisciplinary case studies show the relevance of the topics to non-specialists by cross-linking it to other fields
- ❖ Includes problems, solutions and power point slides on a complementary website

READERSHIP: Second and third year mechanical engineering, civil, chemical, and aerospace engineering, and physics undergraduate students, Msc engineering students, lecturers in electrical engineering, Bachelor's students in engineering sciences, and libraries

DEC 2011 250PP 978-1-1199-7659-2 PR £34.99 €42.00

Wind Power in Power Systems

2nd Edition

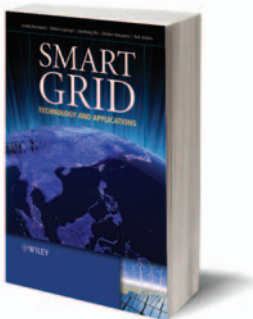
THOMAS ACKERMANN

Royal Institute of Technology, Sweden

- ❖ Major updates to 26 chapters from the first edition in light of the enormous increase in installed capacity over the last 5 years and emerging research areas.
- ❖ 47% new material including 23 new chapters, covering the topical issue of storage and wind power, and the important development of standard wind turbine models.
- ❖ Features contributions from major wind turbine manufacturers, Eneron, Siemens Wind, GE, Repower and Vestas and major organisations such as EWEA, IEA and UWIG.
- ❖ Substantial international coverage including practical experiences from operators in North America (Texas and California), Spain, Ireland, UK, New Zealand, and China.
- ❖ Three new chapters on offshore connections, cable systems and control.

READERSHIP: Power engineers, wind turbine designers, wind project developers, wind energy consultants, graduate students, researchers, regulation authorities, and policy makers

NOV 2011 1024PP 978-0-470-97416-2 CL £95.00 €114.00



Smart Grid

Technology and Applications

JANAKA EKANAYAKE, NICK JENKINS, KITHSIRI LIYANAGE, JIANZHONG WU & AKIHIKO YOKOYAMA

Cardiff University, Wales; University of Peradeniya, Sri Lanka; Cardiff University, UK; University of Tokyo, Japan; Cardiff University, UK

- ❖ Covers the topical subject of Smart Grid integration that is gaining importance in the area of power systems
- ❖ Relevant technologies grouped into three sections, each with a logical structure, with Case Studies included at the end of the book
- ❖ Useful examples included in each chapter explain the application of different technologies

READERSHIP: Practicing electrical engineers, power engineers, planners and design engineers, consultants and research staff who are required to deal with communications and metering, T&D executives, people in power systems and renewable energy systems industry, postgraduate and final year UG students in EEE/ECE, energy policymakers and managers, members of environmental organisations, and entrepreneurs interested in Smart Grids

OCT 2011 288PP 978-0-470-97409-4 CL £65.00 €78.00

Disturbance Analysis for Power Systems

MOHAMED A. IBRAHIM

State University of New York, USA

- ❖ DFR records, oscillograms and numerical relay fault records are analyzed
- ❖ Functional system diagrams showing monitored voltages and currents are provided
- ❖ Provides real world case studies involving protection systems for generators, transformers, overhead transmission lines, etc
- ❖ Includes section devoted to practice problems to enhance understanding

READERSHIP: Primarily intended for engineers and technicians in the areas of protection and control, power system operations, and electrical power system equipment, also operators and their supporting staff at energy control centers

AUG 2011 840PP 978-0-470-91681-0 CL £100.00 €120.00

Smart Grids

JEAN-CLAUDE SABONNADIÈRE & NOUREDINE HADJSAÏD

INPG, France, International Energy Agency, France

- ❖ Smartgrids is a very new concept of electric power distribution networks which enables insertion of Distributed Generation Sources of Renewable Energy by mixing information and communication technologies with power devices.
- ❖ The first section analyzes the integration of Smartgrids inside the the technical including Generation-Transmission-Distribution system.
- ❖ The second section is devoted to the use of smartgrids as an incentive for an intelligent link between the consumer and the grid.
- ❖ It points out the transverse functions including regulation aspects and new business models in the electric energy paradigm.

READERSHIP: Engineers, utility managers in the power distribution industries, senior undergraduate and postgraduate students in power engineering, control and communications technologies

AUG 2011 350PP 978-1-8482-1261-9 CL £83.50 €100.20

Electrical Energy Conversion and Transport

An Interactive Computer-Based Approach

2nd Edition

GEORGE G. KARADY & KEITH E. HOLBERT

Both of Arizona State University, USA

- ❖ Describes different power generation methods including renewable energy generation (solar, wind, fuel cell)
- ❖ New sections discuss the upcoming Smart Grid and the distributed power generation using renewable energy generation.
- ❖ Designed to support interactive teaching and computer assisted self-learning
- ❖ Uses an interactive approach which results in a better understanding of the theory and development of solid problem-solving skills
- ❖ Electrical energy conversion and transport is a fundamental part of electrical engineering.

READERSHIP: Professionals in the power industry, undergraduate, upper division (junior/senior) electric power course for electrical engineering majors

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

FEB 2012 928PP 978-0-470-93699-3 CL £100.50 €120.60

Microwave Noncontact Motion Sensing and Analysis

CHANGZHI LI & JENSHAN LIN

Texas Tech University, USA, University of Florida, USA

- ❖ Provides timely coverage of a technology integral to the future healthcare of the elderly
- ❖ Ties together human vital sign detection, through-wall radar, and Doppler vibrometry
- ❖ Leads the way towards further research for scientists by combining microwave, electronic circuit, signal processing, and healthcare point of views

READERSHIP: Practicing engineers and researchers (radio frequency electronics and radar-focused) with background in microwave technology, healthcare professionals seeking insight into the current state of the technology in this area, TSA, military, law enforcement, fire department

SERIES: WILEY SERIES IN MICROWAVE AND OPTICAL ENGINEERING

JUN 2011 220PP 978-0-470-64214-6 CL £63.50 €76.20

Photonic Sensing

Principles and Applications for Safety and Security Monitoring

GAOZHI (GEORGE) XIAO & WOJTEK J. BOCK

TBA

- ❖ Provides a unified synthesis of photonic sensing's applications to safety and security
- ❖ Serves as an invaluable reference for research and development of photonic sensing in safety and security
- ❖ Surveys underlying technologies for optical sensors while also extending to more topical, application-oriented subjects

READERSHIP: This book serves as an invaluable source for engineers, researchers and technical staff working in the field of photonic sensing, as well as safety and security monitoring. The text is also a viable reference for students who are interested in photonic sensing

SERIES: WILEY SERIES IN MICROWAVE AND OPTICAL ENGINEERING

DEC 2011 500PP 978-0-470-62695-5 CL £83.50 €100.20



TEXT BOOK

Geographical Information and Urban Transport Systems

A. BANOS

TBA

- ❖ Urban transport systems need to be analyzed from various perspectives; the offer on one hand, the demand on the other hand, but also their negative externalities (risks of transport systems). The three dimensions are rarely apprehended in an integrated perspective.
- ❖ Provides a large collection of chapters dealing with these three specific dimensions
- ❖ Written by recognized specialists in their domain, and articulates them in an integrated way

APR 2011 978-1-8482-1228-2 CL £TBA €TBA

Assessing the Wind Resource

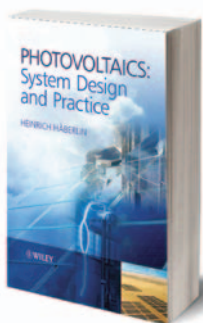
A practical guide to the most important phase of developing a wind project

MICHAEL BROWER, DANIEL W. BERNADETT, KURT V. ELSHOLZ, MATTHEW V. FILIPPELLI, MICHAEL J. MARKUS, MARK A. TAYLOR & JEREMY TENSEN

- ❖ Promotes a consistent standard for wind assessment across the industry
- ❖ Accelerates learning process by providing a comprehensive text
- ❖ Information ranges from fundamentals of wind to cutting edge research topics

READERSHIP: Individuals in charge of planning, managing, and carrying out wind monitoring programs and resource assessments, professional wind tower installers and resource analysts, managers and planners, residential and commercial buyers and sellers of wind turbines, federal program managers, and students learning about wind energy

DEC 2011 300PP 978-1-1180-2232-0 CL £60.00 €72.00



Photovoltaics System Design and Practice

HEINRICH HÄBERLIN

Bern University, Switzerland

- ❖ Focuses on photovoltaic systems technology and engineering, looking at practical design and layout of photovoltaic (PV) systems and energy yield of such plants
- ❖ Describes operational possibilities and problems encountered with the direct conversion of sunlight into electricity
- ❖ Full colour illustrations throughout, with tables presenting measuring results from the author's own projects
- ❖ Unique in including detailed discussion of lightning protection, normalized representation of energy production and actual operational experience of PV plants over many years
- ❖ Problems and solutions for engineers and advanced students

READERSHIP: Electrical engineers and other electrical professionals active in the field of photovoltaic systems, especially designers and installers of photovoltaic plants or in companies manufacturing and testing products for such plants, advanced students on renewable energy courses. PV plant builders and PV plant owners

OCT 2011 704PP 978-1-1199-9285-1 CL £75.00 €90.00

Risk and Crisis Communications

Methods and Messages

PAMELA WALASKI

JC Safety & Environmental, Inc., USA

- ❖ Details basic information and common theoretical concepts in risk and crisis communication
- ❖ Provides SH&E professionals with practical applications and a fundamental understanding of the process in order to develop an effective risk and crisis communications plan
- ❖ Includes case studies so that the reader to demonstrate both effective and ineffective risk and crisis communication processes and messages
- ❖ Case studies include Tylenol Tampering, West Nile Virus Outbreak, H1N1 Pandemic.
- ❖ Includes graphs and charts showing the various risk analysis tools including risk matrices, PHAs, and what-if checklists
- ❖ Focuses on the expanding roles of SH&E professionals to provide proper risk communication plans to become successful and more valuable members of an organization

READERSHIP: Entry and mid level safety, health, environmental professionals, those whose operations and products create a hazard to their immediate communities and/or workforce, professionals that make risk-based decisions, all domains of safety, engineering and technical fields, management science, decision analysis, and safety and risk professionals

AUG 2011 224PP 978-0-470-59273-1 CL £46.95 €56.40

Concise Encyclopedia of System Safety

Definition of Terms and Concepts

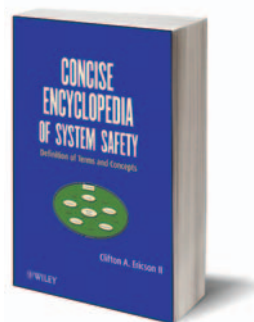
CLIFTON A. ERICSON, II

EG&G Technical Services, Inc., USA.

- ❖ The first book explicitly devoted to defining all of the major terms and concepts used in system safety and reliability.
- ❖ Helps the safety professional find their way through the current jungle of terms and definitions used in books, guidelines, standards and even laws
- ❖ Creates a single common and correct definition for all safety-related terms and concepts
- ❖ Includes examples and key reference standards

READERSHIP: Analysts, engineers and managers in the fields of safety, reliability, quality, risk management and design, safety & health professionals and design personnel, agencies such as NASA, DoD, FAA, NTSB, DOT, DOE, etc. Corporations involved in system development and applying the system safety process to their products, short course, re-sellers

JUN 2011 536PP 978-0-470-92975-9 CL £46.95 €56.40



Pump Wisdom

Problem Solving for Operators and Specialists

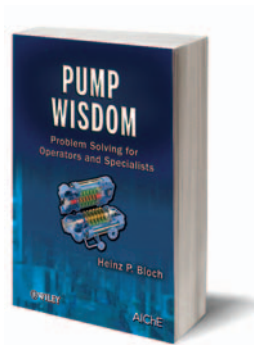
HEINZ P. BLOCH

Process Machinery Consulting, USA

- ❖ Provides a concise explanation of how pumps function
- ❖ Details the specifications to be considered when purchasing a pump
- ❖ Provides tips on installation of centrifugal pumps in process plants
- ❖ Written in concise language, purposefully avoids excessive mathematical treatment
- ❖ Explains pump hydraulics, in easy to understand terms
- ❖ It emphasizes the mechanical aspects of pumps. It delves into misunderstandings and oversights on bearings, seals, impeller trimming, lubricant application, lubricant types, etc.

READERSHIP: Chemical engineers, petroleum engineers, mechanical engineers, operators, managers, purchasing agents, machinists, reliability technicians, and maintenance workers, who work in water and wastewater plants, process plants, power plants and in other related manufacturing plants

MAY 2011 224PP 978-1-1180-4123-9 CL £33.50 €40.20



Basic Concepts of Crystallography

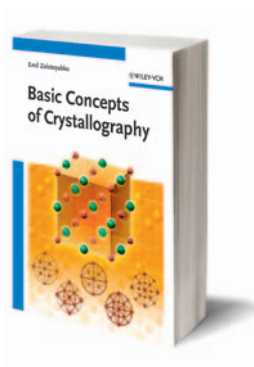
EMIL ZOLOTYABKO

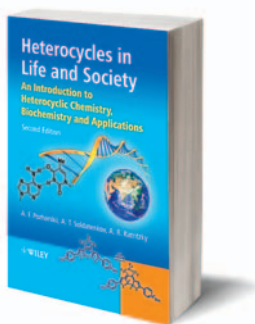
Technion, Israel

- ❖ Experienced university teacher: the author has been teaching crystallography courses for more than twenty years to students of physics, chemistry, biology and materials science
- ❖ Reader-centered: based on the author's lectures, the book answers the questions students really ask instead of delving into esoteric details
- ❖ Supports understanding by: numerous clear-cut illustrations, easy-to-read crystallographic tables, questions with answers
- ❖ Well-balanced approach: visual, intuitive understanding takes precedence over formalism; only as much mathematics as necessary
- ❖ Compact and self-contained treatment: the book is suitable for crystallography courses in physics, chemistry, materials science and biology irrespective of the academic background of the audience

READERSHIP: Students in chemistry, students in physics, bachelor's students in material sciences, master's students in material sciences, cristallographers, solid state physicists, solid state chemists, lecturers, libraries

MAY 2011 276PP 978-3-527-33009-6 PR £40.00 €48.00





Heterocycles in Life and Society

An Introduction to Heterocyclic Chemistry, Biochemistry and Applications
2nd Edition

ALEXANDER F. POZHARSKII, ALAN R. KATRITZKY & ANATOLI SOLDATENKOV

Southern Federal University, USA; University of Florida, USA; Russian People's Friendship University, Russia

- ❖ Heterocycles in Life and Society is the only book to consider heterocyclic compounds from the viewpoint of their practical significance and biochemical importance, rather than their chemical reactions.
- ❖ Completely revised and expanded for this second edition, drawing on a decade of innovation in heterocyclic chemistry
- ❖ New chapters on heterocycles in supramolecular chemistry, and the origin of heterocycles on the early Earth.
- ❖ The new edition describes the importance of heterocyclic molecules in new fields such as nanochemistry, green chemistry, molecular devices and sensors, and molecular electronics.
- ❖ Stresses the interdisciplinary nature of heterocycles: its influence pervades biochemistry, medicine, agricultural chemistry and technology
- ❖ Written by three highly acclaimed researchers in heterocyclic chemistry who have many years' experience of teaching between them

READERSHIP: Students and researchers working in heterocyclic chemistry, students and researchers in academia and industry in organic chemistry, biochemistry, drug discovery, molecular materials and devices, and industrial chemicals (eg agrochemicals and dyes)

APR 2011 400PP 978-0-470-71410-2 PR £39.95 €48.00



Organic Spectroscopy Workbook

TOM FORREST, JEAN-PIERRE RABINE & MICHEL ROUILLARD

Dalhousie University, Canada; Université de Nice Sophia Antipolis, France

- ❖ Features exercises to help develop the student's understanding of how structures are determined from spectra and to promote the student's own interpretation of different spectra
- ❖ Covers a large range of spectroscopic data, including mass spectrometry, infrared and ^1H and ^{13}C nuclear magnetic resonance, typically used in the routine analysis of small-sized organic molecules
- ❖ Presents in full-color, in a workbook-friendly format the spectra for interpretation with explanations and analyses on the facing page

READERSHIP: Undergraduate and postgraduate students

SEP 2011 280PP 978-1-1199-9379-7 PR £45.00 €54.00



Modern Crop Protection Compounds

WOLFGANG KRÄMER, ULRICH SCHIRMER, PETER JESCHKE & MATTHIAS WITSCHEL

Burscheid, Germany; Heidelberg, Germany; Bayer CropScience, Germany; BASF AG, Germany

- ❖ The leading reference on the topic just got better: Inspired by the success of the first edition all chapters have been updated, and new chapters added, to reflect recent progress in this highly innovative field
- ❖ Serves a growing market: Fuelled by the increasing demand for food and feed crops, as well as the trend to use more selective and therefore less toxic compounds, the global market for crop protection compounds (valued at over 30 billion annually) is forecast to increase substantially. Agrochemical companies will profit from this and are expanding their development and production capacities
- ❖ Loaded with inside knowledge from industry: Chapters have been written by an international team of first class authors from leading companies like Bayer, Dow, Syngenta and BASF

READERSHIP: Chemical industry, organic chemists, biochemists, agricultural scientists, plant physiologists, food industry

DEC 2011 1550PP 978-3-527-32965-6 CL £365.00 €462.00

Analytical Techniques in Clinical Studies

Chemical Methods and Applications

SERGIO CAROLI & GYULA ZÁRAY

Both of Istituto Superiore di Sanità, Italy

- ❖ Helps laboratory chemists reduce everyday problems and understand standardized lab techniques
- ❖ Describes common analytical techniques in clinical chemistry
- ❖ Provides references for particular technologies for readers to get more details on legal or technical matters
- ❖ Stresses applications in areas like biomonitoring, diagnostics, food quality, biomarkers, drugs, and forensics
- ❖ Includes legal and regulatory framework regulating clinical lab analysis

READERSHIP: Analytical chemists in clinical and laboratory research, biochemists, toxicologists, forensic scientists, quality assurance personnel, medical device and food industries

NOV 2011 568PP 978-0-470-44527-3 CL £83.50 €100.20

Forensic Chemistry Handbook

LAWRENCE KOBILINSKY

John Jay College of Criminal Justice, USA

- ❖ Covers forensic chemistry in a clear, concise, and authoritative way
- ❖ Brings together in one volume the key topics in forensics where chemistry plays an important role - such as blood analysis, drug analysis, urine analysis, DNA analysis, etc
- ❖ Explains how to use chemical instruments to analyze crime scene evidence Contains numerous charts, illustrations, graphs and tables to give quick access to pertinent information

READERSHIP: Lawyers (prosecutors and defense attorneys), judges, criminalists in police crime labs, practicing chemists and researchers in analytical and forensic laboratories, undergraduate and graduate students in forensic science, criminalistics, and applied chemistry courses

JUL 2011 544PP 978-0-471-73954-8 CL £83.50 €100.20

Fortified Foods with Vitamins

Analytical Concepts to Assure Better and Safer Products

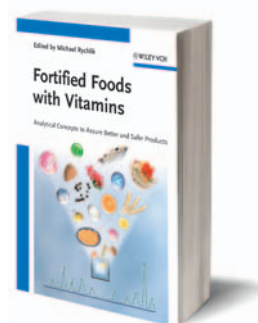
MICHAEL RYCHLIK

TU München, Freising

- ❖ Reviews modern analytical approaches for verifying vitamin content in fortified foods
- ❖ Emphasizes fast, sensitive, and accurate methods along with assays enabling the detection of various isomers and multiple vitamins
- ❖ Describes the concepts of vitamin fortification, analytical and assay methods to study fortification, and applications to make create better and safer foods
- ❖ Includes data on sampling and extraction methods, AOAC methods, and discussions of pros and cons of different methods
- ❖ Covers regulatory matters in the US and EU
- ❖ Aids readers in determining which type of analysis method is best for added vitamins

READERSHIP: Analytical laboratories in industry, analytical chemists, biochemists, libraries

MAR 2011 314PP 978-3-527-33078-2 CL £85.00 €102.20



Chemical Analysis of Antibiotic Residues in Food

JIAN WANG, JAMES D. MACNEIL & JACK F. KAY

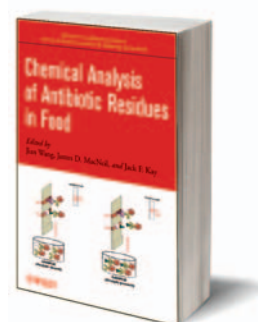
Canadian Food Inspection Agency, Canada; Canadian Food Inspection Agency, Canada; Ministry of Agriculture, Canada

- ❖ Provides a single source for readers interested in the development of analytical methods to measure antibiotic residues in food
- ❖ Topics include general issues related to analytical quality control and quality assurance, measurement uncertainty, screening and confirmatory methods.
- ❖ Presents updated information on food safety regulation based on routine screening and confirmatory methods, especially LC-MS
- ❖ Presents analytical methods and background information to understand the choice of marker residue and target animal tissue for regulatory analysis
- ❖ Provides general guidance for method development, validation, and estimation of measurement uncertainty

READERSHIP: Analysts, scientists, managers, students and government regulatory or private laboratories

SERIES: WILEY – SERIES ON MASS SPECTROMETRY

AUG 2011 448PP 978-0-470-49042-6 CL £66.95 €80.40



Complexity, Chemoselectivity and Synthesis of Bioactives

STELLIOS ARSENIYADIS

Ecole Supérieure de Physique et Chimie Industrielles, France

- ❖ Only book of its kind associating modern synthetic techniques and structurally complex bioactives
- ❖ Provides a comprehensive view of the various synthetic technologies for the synthesis of complex molecules of significant pharmacological value
- ❖ Contains chapters by world-reknown experts such as Schreiber, Nicolaou, Curran, Macmillan, List, Boger, and Khosla, among others
- ❖ Includes representative experimental procedures for particular methods

READERSHIP: Researchers in the fields of biochemistry, chemical biology, organic synthesis, organometallic chemistry and catalysis, professors and graduate and post graduate students involved in the fields of biochemistry, chemical biology, organic synthesis, organometallic chemistry and catalysis, pharmaceutical companies, fine chemicals manufacturers

SEP 2011 350PP 978-0-470-61618-5 CL £83.50 €100.20

HDL Function, Atherosclerosis, and Cardiovascular Disease

Mechanisms and Therapeutics

ANATOL KONTUSH & M. JOHN CHAPMAN

Both of the Pitié-Salpêtrière Hospital, France

- ❖ Addresses one of the hottest topics in lipid research and cardiovascular disease prevention today
- ❖ Emphasizes functional properties of HDL and their clinical value in cardiovascular disease
- ❖ Presents a critical appraisal of assays used to evaluate HDL properties
- ❖ Is an organized discussion of biochemical and biological roles of HDL.
- ❖ Covers emerging therapeutics

READERSHIP: Researchers in lipid biochemistry (chemists, biologists, pharmacologists, nutritionists), clinicians (particularly those interested in lipid disease), pharmaceutical research management, physicians, clinicians, lipid specialists, cardiologists, academic and corporate research libraries

DEC 2011 352PP 978-0-470-40821-6 CL £73.50 €88.20

Chemistry and Biochemistry of Oxygen Therapeutics

From Transfusion to Artificial Blood

ANDREA MOZZARELLI & STEFANO BETTATI

Both of the University of Parma, Italy

- ❖ First book to cover the full range of new oxygen therapeutics
- ❖ Fills a void in the literature by addressing the biochemistry and physiology of oxygen transport, showing how use of this basic knowledge can help in the chemical design of blood substitutes for use in specific disease states
- ❖ Edited by, and with contributions from, leading international experts in the field
- ❖ Links the underlying biochemical principles with chemical and biotechnological innovations and pre-clinical development

READERSHIP: Blood substitute researchers, medicinal chemists, hematologists, researchers in drug discovery and design; researchers and students in biochemistry and molecular biology, biotechnology and medicine

SEP 2011 480PP 978-0-470-68668-3 CL £110.00 €132.00

Protein Chaperones and Protection from Neurodegenerative Diseases

STEPHAN N. WITT & VLADIMIR UVERSKY

Both of the Louisiana State University, USA

- ❖ Examines the variety of roles that chaperones play in neurodegenerative diseases such as Huntington's disease and Parkinson's disease
- ❖ Caters to the ever-growing, global aging population
- ❖ Gives a cutting-edge examination of what is known about how chaperones protecting cells from toxic aggregates that occur in neurodegenerative diseases
- ❖ Contains chapters written by noted leaders in the field, Susan Lindquist at Cambridge University; Nancy Bonini at the University of Pennsylvania, Written by leaders in the field; Stuart Lipton of the Scripps Research Institute, and Judith Frydman of Stanford University.
- ❖ Provides a clinical perspective; several contributors are MDs or joint MD/PhDs.

READERSHIP: Scientists working in the fields of biochemistry, biophysics, molecular medicine, biotechnology, pharmacology and drug discovery, molecular and cellular biology; biotech and pharma companies, NIH researchers, graduate and post-graduate students in the disciplines above

SERIES: WILEY SERIES IN PROTEIN AND PEPTIDE SCIENCE

JUL 2011 480PP 978-0-470-56907-8 TBA TBA TBA / 452PP TBA CL £83.50 €100.20

Copper-Oxygen Chemistry

KENNETH D. KARLIN, SHINOBU ITOH & STEVEN ROKITA

Johns Hopkins University, USA; Osaka University, Japan; University of Maryland, USA

- ❖ Addresses the significantly increasing literature on oxygen-atom insertion and carbon-carbon bond forming reactions as well as enantioselective oxidation chemistries
- ❖ Progresses from biological systems to spectroscopy and theory, and onward to bioinorganic models and applications
- ❖ Covers a wide array of reaction types such as insertion and dehydrogenation reactions that utilize the cheap, abundant, and energy-containing O₂ molecule
- ❖ Has wide applications in chemical synthesis, synthetic organic and medicinal chemistries as well as biochemical oxidations which occur widely and critically in biological systems

READERSHIP: Biochemists, biophysicists, medical/pharmaceutical chemists, synthetic organic and bioinorganic chemists in academia and industry

SERIES: WILEY SERIES OF REACTIVE INTERMEDIATES IN CHEMISTRY AND BIOLOGY

SEP 2011 514PP 978-0-470-52835-8 CL £83.50 €100.20

Biohybrid Systems

Nerves, Interfaces, and Machines

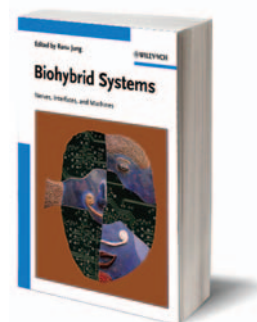
RANU JUNG

Arizona State University, USA

- ❖ The newest, high-level work on this hot topic in medical physics
- ❖ Covering the issue from principles of neuroscience to in-vivo use for engineers and physicists alike
- ❖ With extensive data tables in the appendix and software samples on the web

READERSHIP: Biophysicists, neurologists, engineers, electrical engineers, graduate students, libraries at university institutes, libraries at universities, and company libraries

OCT 2011 320PP 978-3-527-40949-5 CL £100.00 €126.00



Application of Risk Management for Pharmaceutical and Biological Products Manufacturing

HAMID MOLLAH, HAROLD BASEMAN & MIKE LONG

Genentech, USA; Valsource LLC, USA; Cooper Surgical, USA

- ❖ New FDA guidance, EU regulations, and international standards were issued in 2008; this book will be the first book exclusively addressing implementation of risk management for biological and pharmaceutical product manufacture
- ❖ Provides a basic understanding of risk management (RM) concepts for the user who has a basic awareness, but lacking extensive RM experience
- ❖ Includes actual tools and methods to use for managing risk in biologics and pharmaceutical manufacturing processes
- ❖ Case studies and specific examples of use of RM for biological and pharmaceutical product manufacture useful references and a bibliography for the reader who wishes to gain additional knowledge in the subject

READERSHIP: Pharmaceutical and biological products manufacturing as well as the growing, R&D and regulatory affairs professionals, medical device and food professionals who have nearly identical risk management expectations, students and teachers in the fields of pharmaceutical engineering, pharmaceutical science and technology, and regulatory affair

SEP 2011 300PP 978-0-470-55234-6 CL £60.50 €72.60

Quality by Design Model for Biologics Drug Product Development

SATISH K. SINGH & JOSEPH PHILLIPS

Pfizer Corporation, USA; Amgen Inc., USA

- ❖ Brings the readers up to date on the latest developments in QbD applications in biologics drug product processing
- ❖ Points to the future for QbD as a routine approach in drug product processing
- ❖ Provides case studies on the application of QbD from a number of different companies, exemplifying the variety of ways in which the subject has been handled
- ❖ Allows a drug development scientist to choose from a menu of options when approaching their own drug product development projects

READERSHIP: Professionals students, and regulators in the fields of protein formulation development, biopharmaceutical manufacturing and quality control, quality assurance, process development, quality control, process analytical technology and risk analysis experts; chemical and bioprocess engineers; members of worldwide regulatory agencies (FDA, EMEA, Health Canada, etc.)

SERIES: WILEY SERIES IN BIOTECHNOLOGY AND BIOENGINEERING

AUG 2011 300PP 978-0-470-88721-9 CL £83.50 €100.20

Pharmaceutical Biotechnology 2nd ed

Drug Discovery and Clinical Applications

OLIVER KAYSER & HERIBERT WARZECHA

University of Groningen, The Netherlands; Technical University Darmstadt, Germany

- ❖ Greatly expanded and completely revised Covers now not only drug application of biopharmaceuticals but also their use in diagnostics and vaccine development.
- ❖ Includes material on quality control, safety issue, patent and legal regulations

READERSHIP: Pharmaceutical industry, biotechnological industry, pharmacists, pharmaceutical chemists, chemists in industry, molecular biologists, biotechnological institutes, pharmaceutical laboratories, students in pharmacy

DEC 2011 700PP 978-3-527-32994-6 CL £220.00 €276.00

Minicircle and Miniplasmid DNA Vectors

The Future of Non-viral and Viral Gene Transfer

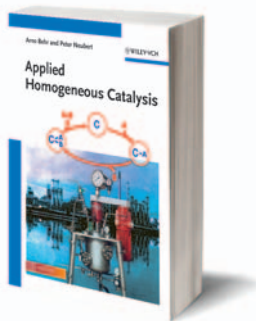
MARTIN SCHLEEF

PlasmidFactory, Germany

- ❖ First book to cover a new approach to gene therapy with a greatly improved safety profile
- ❖ Complete coverage of the topic including molecular basis, production and biomedical applications
- ❖ Wide audience including everyone who is directly or indirectly involved in the development of gene therapies

READERSHIP: Biotechnological industry, pharmaceutical industry, gene technologists, biotechnologists, molecular biologists, and biochemists

DEC 2011 300PP 978-3-527-32456-9 CL £90.00 €114.00



Applied Homogeneous Catalysis

ARNO BEHR & PETER NEUBERT

Both of Universität Dortmund, Germany

- ❖ This is an advanced textbook, masters level.
- ❖ Applied Homogeneous Catalysis is an essential topic for advanced undergraduate students and graduate students, ie E700000, esp E71700 and CHX400.
- ❖ As it is a green process, the topic is of utmost importance to industry and is therefore increasingly taught in universities.
- ❖ Ideal author: dedicated lecturer, who has a wealth of experience in industry.
- ❖ The text provides an array of Questions & Answers and features numerous industrial case studies and examples.
- ❖ Homogeneous catalysis using transition metal complexes is an area of research that has grown enormously in recent years.
- ❖ Invaluable tool for practising chemical engineers and chemists, who need to advance their education in this vital and expanding field.
- ❖ Students studying the fundamentals of Applied Homogeneous Catalysis will be active in the chemical industries, eg. pharmaceutical, polymer and fine & bulk chemicals industries.

READERSHIP: Catalytic chemists, chemical engineers, chemical engineers, chemists, lecturers in chemistry, and graduate students

DEC 2011 650PP 978-3-527-32633-4 PR £60.00 €72.00 / 978-3-527-32641-9 CL £145.00 €174.00

Pharmaceutical Blending and Mixing

P. J. CULLEN & CHRIS RIELLY

Dublin Institute of Technology, Ireland; Loughborough University, UK

- ❖ Mixing is a critical role in the manufacturing of pharmaceuticals.
- ❖ New regulatory requirements for pharmaceutical industries, and the FDA's PAT Initiative demand an increased understanding of pharmaceutical mixing
- ❖ Links the science of blending with regulatory requirements associated with pharmaceutical manufacture
- ❖ Contributions from leading academic and industrial experts provide an informed and industrially-relevant perspective of the topic
- ❖ 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 involved in pharmaceutical science, chemical and mechanical engineering, and bioprocessing

DEC 2011 400PP 978-0-470-71055-5 CL £100.00 €120.00

Porous Media Transport Phenomena

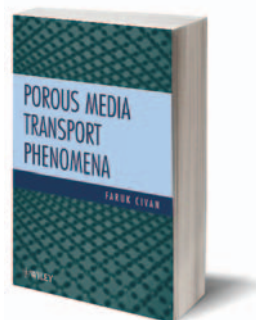
FARUK CIVAN

University of Oklahoma, USA

- ❖ Provides mass, momentum, and energy conservation equations as well as their applications in engineered and natural porous media
- ❖ Includes a solutions manual for exercises found in the book, extra exercise problems amassed from the authors' 25 years of experience, and PowerPoint slides that follow the sequence of the material of the book so that adopters can more easily teach the material
- ❖ Covers classical and basic theory of transport phenomena while incorporating more advanced/specific cases (e.g. tight formations, fractured materials)
- ❖ Includes a chapter on the development of mathematical simulation models

READERSHIP: Professionals and graduate students in petroleum, chemical, geothermal, civil, and mechanical engineering; professionals in material science, geology, and hydrology

AUG 2011 480PP 978-0-470-64995-4 CL £83.50 €100.20



Recycling of Polyester Plastics

CARLOS GUTIERREZ

United Resource Recovery Corporation, USA

- ❖ Explains the various modern methods available for recycling polyester plastics
- ❖ Discusses the pros and cons of each method and examines their value with regard to long-term sustainability
- ❖ Industry leaders and regulatory experts investigate the economic impact of plastics recycling
- ❖ Analyzes how to enhance resource-efficiency, reduce landfill and harness waste plastics as a resource

READERSHIP: Plastics industry, food industry, chemical industry, top management, process engineers, environmental chemists, chemical engineers and polymer chemists

DEC 2011 400PP 978-3-527-32515-3 CL £115.00 €144.00

Vacuum Technology in the Chemical Industry

WOLFGANG JORISCH

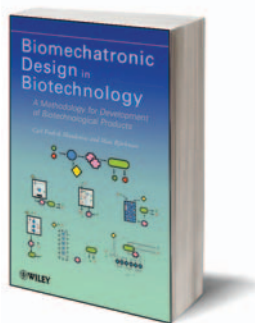
IVPT Industrielle Vakuumprozeßtechnik, Germany

- ❖ The engineer's ideal hands-on introduction to vacuum technology applications in the chemical industry
- ❖ Based on the successful German edition and seminar held by the German Engineers' Association (VDI) on a regular basis
- ❖ Contains dedicated chapters for operation in hazardous zones, methods for process control, regulation and leak detection
- ❖ Contributors cutting-edge know-how is disseminated here for engineers working in vacuum technology, chemical process design, plant operation, and mechanical engineering

READERSHIP: Chemical engineers, apparatus construction engineers, chemical engineers, process engineers, vacuum engineers, chemists in industry, vacuum physicists, chemical industry, chemists, company libraries, libraries at universities, and students in chemical engineering

NOV 2011 300PP 978-3-527-31834-6 CL £105.00 €132.00





Biomechatronic Design in Biotechnology

A Methodology for Development of Biotechnological Products

CARL-FREDRIK MANDENIUS & MATS BJÖRKMAN

Both of Linköping University, Sweden

- ❖ Covers the introduction, fundamentals, theory, and applications of bio-mechatronic design principles written by leading experts in the field
- ❖ The tools taught in this book can be used in product development by the reader to help create shorter development times and reduce the need for prototype testing and verification
- ❖ Includes case study like examples of the technology used such as a Surface Plasmon Resonance Sensor and a Robotic Cell Culturing System for Human Embryonic Stem Cells
- ❖ Provides a interdisciplinary and unifying approach of the many fields of Engineering Sciences and biotechnology in bio-mechatronic design, including a number of concrete design examples

READERSHIP: Professionals in the industrial biotech sector which are involved in R&D and production of electronic and/or mechanical products which include or involve biological parts

AUG 2011 256PP 978-0-470-57334-1 CL £60.50 €72.60

Process Plant Equipment Operation, Reliability and Control

C. NWAHOA

Port Harcourt Refining Company, USA

- ❖ Tools and Techniques included to make your process plant more profitable, efficient, and productive
- ❖ Each chapter covers selection criteria and has a detailed reference for further reading.
- ❖ Covers common problems that occur with process equipment
- ❖ Includes topics on Maintenance Strategies, Reliability Strategies, Equipment Management Strategies, and Process Component Function and Performance Criteria

READERSHIP: Process engineers, chemical engineers, plant operators, instrument engineers, plant manager, training managers, researchers, professors, graduate, and undergraduate students in engineering and science

DEC 2011 512PP 978-1-1180-2264-1 CL £100.00 €120.00

Comprehensive Quality by Design for Pharmaceutical Product Development and Manufacture

G. V. REKLAITIS

Purdue University, USA

- ❖ Chapters deal with Quality by Design (QbD) concepts through concrete case studies in various products, current and emerging developments of the technology, and regulatory implications.
- ❖ Guides pharmaceutical engineers and scientists involved in product and process development how to utilize QbD practices and applications effectively while complying with government regulations
- ❖ Chapters devoted to applications of QbD methodology in four main processing sectors drug substance processing, drug product processing, bioprocess, and solid-liquid processing.
- ❖ Includes continuous quality verification, role of real-time monitoring tools and chemometrics, lessons learned from QbD practice in other industries, and automatic control tools and strategies in QbD
- ❖ FDA perspectives on QbD based on FDA-Novartis CRADA experienced are discussed, as well as perspectives from professionals working for the regulatory agencies around the world
- ❖ Edited by the three researchers renowned for their research on the design, development and manufacturing of pharmaceutical products and highly respected in the field

READERSHIP: Practitioners involved in the development of a new drug and its associated manufacturing process and with an interest in improving the existing manufacturing process; professionals working for the regulatory agencies throughout the world; academic community doing drug-related research and collaborating with the pharmaceutical industry

DEC 2011 592PP 978-0-470-94237-6 CL £83.50 €100.20

Introduction to the Oil & Gas Industry

JAMES G. SPEIGHT

CD-WINC, USA

- ❖ Gives a thorough summary of the petroleum and natural gas industry, from prospect to production to pipeline
- ❖ New technologies, such as directional and underbalanced drilling, are covered, in easy-to-understand language
- ❖ Useful not only for newcomers and laypersons, but for engineers and students, particularly those for whom English is a second language
- ❖ Examines the basics of pricing and valuation

READERSHIP: Engineers and laypersons interested in or involved in the oil and gas industry

OCT 2011 TBAPP 978-1-1180-1299-4 CL £99.50 €119.40

Efficient Carbon Capture for Coal Power Plants

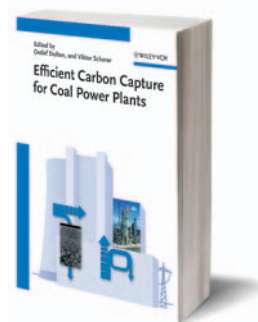
DETLEF STOLTEN & V. SCHERER

Forschungszentrum Jülich, Germany; Ruhr-University Bochum, Germany

- ❖ Environmental Impact: Carbon Capture and Storage is one of the main energy technologies for achieving a low carbon economy.
- ❖ Sustainability: CCS from coal-fired power plants, aims to achieve secure, cost-effective and feasible technologies for an almost complete elimination of carbon dioxide emissions.
- ❖ Safety first: explanation of how the three parts of the CCS chain, capture, transport and storage, work and how they can be performed safely
- ❖ Top academic and industry researchers join together to develop commercial concepts for CCS at power plants

READERSHIP: Process engineers, chemical engineers, chemists, physicists, chemists in industry, physicists in industry, materials scientists, mechanical engineers, students in chemistry, students in physics, students in chemical engineering, students of mechanical engineering, libraries, company libraries

MAY 2011 632PP 978-3-527-33002-7 CL £115.00 €138.00



Introduction to Membrane Science and Technology

HEINRICH STRATHMANN

University of Stuttgart, Germany

- ❖ Membrane Technology is an essential topic for advanced undergraduate students and graduate students, ie E70000, esp E70700, E70900 & E71000.
- ❖ As it is a green technology, the topic is of utmost importance to industry and is therefore increasingly taught in universities.
- ❖ Provides an array of Questions & Answers and features numerous industrial case studies and examples
- ❖ Useful for chemical and process engineers already working in industry, who need to advance their education in this vital and expanding field.

READERSHIP: Students in chemical engineering, students in chemistry, lecturers in chemical engineering, libraries at universities, chemical engineers, and process engineers

SEP 2011 544PP 978-3-527-32451-4 CL £65.00 €78.00

Industrial Drying of Particulate Materials

Equipment Selection and Application

C. M. VAN'T LAND

Akzo Nobel Chemical, USA.

- ❖ Takes a practical approach to drying equipment, from an author with four decades in the industry
- ❖ Assists engineers in selecting drying equipment by explaining dryer basics, criteria, selection procedure, and sizing
- ❖ Describes a diverse array of drying equipment (convective, fluid-bed, direct-heat, flash, spray, batch, and steam) from an engineer's perspective
- ❖ Provides quick and ready access to drying technologies with references to more detailed literature
- ❖ Treats drying as part of an integrated process in the production process

READERSHIP: Drying personnel including chemical and mechanical engineers with titles like: process development engineer, process engineer, plant engineer, process engineers in industries: chemical, plastics and polymer, food, textile, inorganic chemical, pharmaceutical, catalyst manufacturing, chemical process firms, process plant suppliers, engineering consultants, advanced and technical university courses and engineering students

DEC 2011 368PP 978-0-470-13117-6 CL £76.95 €92.40



Modern Drying Technology

Volume 4: Energy Savings

EVANGELOS TSOTSAS & ARUN S. MUJUMDAR

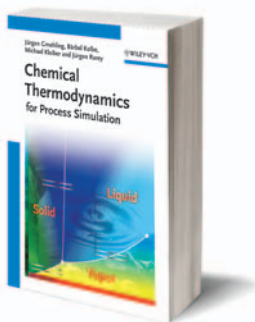
Otto-von-Guericke-University Magdeburg, Germany; University of Singapore, Singapore

- ❖ Drying is the largest consumer of energy in solids processing, responsible for about 10% of the total energy consumption in the industries of developed countries
- ❖ Energy savings by improved apparatus design and optimization and heat recovery are one of THE discussed topics in the chemical process engineering community
- ❖ Every fabricated solid product has to be dried at some point during manufacturing as well as some raw materials prior to processing
- ❖ Drying techniques are actively used to improve product quality
- ❖ Drying is very challenging in both theory (mathematical modelling) and experiment because of the multiphase and multiscale nature of the process

READERSHIP: Chemical engineers, chemical engineers, process engineers, process engineers, mechanical engineers, apparatus construction engineers, pharma engineers, and food technologists

SERIES: MODERN DRYING TECHNOLOGY

NOV 2011 350PP 978-3-527-31559-8 CL £130.00 €156.00



Chemical Thermodynamics

For Process Simulation

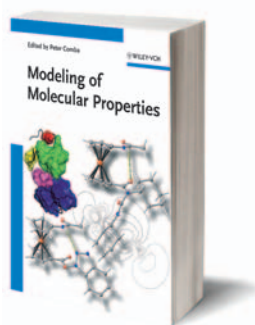
JÜRGEN GMEHLING, BÄRBELE KOLBE, MICHAEL KLEIBER & JÜRGEN RAREY

Carl Ossietzky University Oldenburg, Germany; Uhde GmbH, Germany; GEA Wiegand GmbH, Germany

- ❖ Chemical thermodynamics is essential knowledge for the description of any kind of pure component and mixture properties in every synthesis and for the design and optimization of various processes (unit operations).
- ❖ Advanced level, but easy to understand for every chemical engineer and chemist with a basic education in thermodynamics and phase equilibria.
- ❖ Applied Thermodynamics: Teaches students the engineering perspective of thermodynamics but is also of interest to all companies active in chemistry, pharmacy, oil and gas processing, petrochemistry, refinery, food production, environmental protection and engineering.
- ❖ Explains thermodynamics behind simulations to users of simulation programs.
- ❖ Comprises numerous solved examples, which simplify the understanding of the often complex calculation procedures.
- ❖ Discusses advantages and disadvantages of the particular models and procedures.
- ❖ Provides recipes for the procedure at the end of each chapter.

READERSHIP: Students in chemical engineering, process engineers, chemical engineers, chemical industry, lecturers in chemical engineering, lecturers in chemistry, libraries at university institutes, and company libraries

SEP 2011 630PP 978-3-527-31277-1 CL £85.00 €102.00



Modeling of Molecular Properties

PETER COMBA

University of Heidelberg, Germany

- ❖ Broad target group: Most books in the fields focus on specific topics; this one is a must have for all organic, inorganic and biochemist as well as materials scientists using molecular modelling or computational chemistry
- ❖ Up-to-date insight into and comprehensive knowledge of the important field of molecular modelling from well-known scientists
- ❖ Clearly structured according to the molecular properties of compounds and materials
- ❖ Bridges a variety of methods with their applications in different fields as coordination compounds, proteins, drugs, organic compounds and molecular electronics.

READERSHIP: Inorganic chemists, materials scientists, organic chemists, biochemists, Ph.D. students, lecturers, medicinal chemists and libraries

SEP 2011 526PP 978-3-527-33021-8 CL £115.00 €138.00

Rate Constant Estimation for Thermal Reactions

HERBERT DACOSTA

Caterpillar, Inc., USA

- ❖ Provides an overview of the latest computational approaches to estimate rate constants for thermal reactions, which are required in order to optimize processes and operating conditions in the manufacture of a broad range of products including food, fuels, medicines, engines, and catalytic converters, for example.
- ❖ Facilitates the prediction of rate constants without the need to perform costly experiments
- ❖ First-principle and approximation methods are written by leaders in the field, and include validation examples.
- ❖ Presents in-depth examples and applications of those theories across a wide range of basic and applied research areas such as fuel combustion, catalysis, and polymerization reactions.

READERSHIP: Physical chemists, chemical engineers, automotive engineers, fuel scientists, computational chemists, and organic chemists, and polymer scientists in academia and industry worldwide, as well as graduate students in these disciplines

OCT 2011 350PP 978-0-470-58230-5 CL £100.00 €120.00

Modeling and Simulation of Heterogeneous Catalytic Reactions

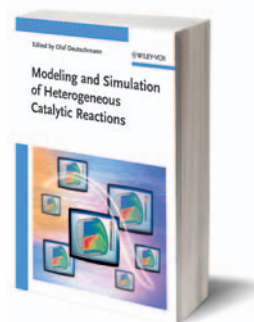
OLAF DEUTSCHMANN

University of Karlsruhe, Germany

- ❖ Presents comprehensively all aspects about this hot Nobel Prize topic
- ❖ This book brings expertise from surface science to chemists and engineers interested in heterogeneous catalysis
- ❖ The first and only book about this hot topic The well-known and international authorship presents topics like DFT calculations, Monte Carlo simulations, reactions in porous media, simulation of catalytic reactors and much more

READERSHIP: Theoretical chemists, catalytic chemists, materials scientists, chemical engineers, chemists in industry, physical chemists, libraries, chemical engineers

DEC 2011 420PP 978-3-527-32120-9 CL £125.00 €156.00



Therapeutic Targets

Modulation, Inhibition, and Activation

LUIS M. BOTANA & MABEL LOZA

Both of University of Santiago de Compostela, Portugal

- ❖ Focuses on important biochemical protein targets for potential therapeutics like kinases, phosphatases, phosphodiesterases, and potassium channels
- ❖ Provides insight into where the next generations of new drugs are likely to come from Includes chapters on drug targeting strategies for specific diseases: Alzheimer's, diabetes, pain and inflammation

READERSHIP: Pharmacologists, biochemists, medicinal chemists, pharmaceutical and biomedical researchers

DEC 2011 648PP 978-0-470-58719-5 CL £117.00 €140.40

Peptide Drug Discovery and Development

Translational Research in Academia and Industry

MIGUEL CASTANHO & NUNO SANTOS

University of Lisbon, Portugal; University of Lisbon, Portugal

- ❖ Growing market: Peptides are making up an ever greater share of newly approved drugs, and this trend is expected to continue
- ❖ Fills a real knowledge gap: Current drug development is focused on either small molecules like aspirin, or large biopharmaceuticals like antibodies
- ❖ The "in-between" area of small peptide biopharmaceuticals has its own challenges and opportunities, and drug developers throughout the industry have to acquire this knowledge quickly in order to stay in the business.
- ❖ Modern and forward-looking: By emphasizing the "bench to bedside" translational approach to drug development, this handbook follows the new paradigm in pharma research, turning out better medicines in a shorter development time than was previously the norm

READERSHIP: Medicinal chemists, biotechnologists, pharmaceutical industry, biotechnological industry, and biochemists

OCT 2011 450PP 978-3-527-32891-8 CL £125.00 €156.00



Protein and Peptide Mass Spectrometry in Drug Discovery

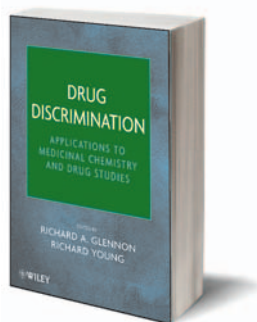
BIRENDRA PRAMANIK, GUODONG CHEN & MICHAEL L. GROSS

Washington University, USA; Schering-Plough Research Institute, USA; Schering-Plough Research Institute, USA

- ❖ Describes the drug discovery applications of one of the most highly utilized analytical techniques for protein and peptide analysis
- ❖ Illustrates the critical role MS-based technologies play in characterizing target proteins and protein products for therapeutic use
- ❖ Includes methods and approaches for imaging, ion mobility, and the use of microwave radiation to speed proteolysis
- ❖ Details techniques for protein structure determinations, interactions of peptides and proteins with ligands, and protein folding and unfolding
- ❖ Covers emerging and important applications for neuroproteomics and antigenic peptides

READERSHIP: Pharmaceutical scientists, analytical and bio analytical chemists in the pharmaceutical and biomedical industries, academic researchers, protein scientists, government labs and researchers – nih especially

DEC 2011 456PP 978-0-470-25817-0 CL £76.95 €92.40



Drug Discrimination

Applications to Medicinal Chemistry and Drug Studies

RICHARD A. GLENNON & RICHARD YOUNG

Both of the Virginia Commonwealth University, USA

- ❖ Stresses practical aspects of drug discrimination – types of procedures, study design, data and interpretation
- ❖ Explains advantages and limitations of drug discrimination studies versus other pharmacologic evaluations
- ❖ Provides medicinal chemists with a fuller understanding of the nature and use of drug discrimination studies for evaluating the action of drugs
- ❖ Bridges gaps between medicinal chemists and behavioral neuroscientists so that they can work better to design and understand new drugs
- ❖ Helps pharmacologists understand, and better interact with, medicinal chemists and drug designers when sharing pharmacologic data
- ❖ Includes 9 chapters from leading researchers in applied drug discrimination, giving practical insights into their techniques and applications

READERSHIP: Medicinal chemists, neuroscientists, pharmacologists, biologists, biochemists, and chemists in industry and academia whose interests involve the design, development, and/or action of agents that acts at the level of the central nervous system

JUN 2011 536PP 978-0-470-43352-2 CL £76.95 €92.40

Pharmacogenetics and Individualized Therapy

ANKE-HILSE MAITLAND-VAN DER ZEE & ANN K. DALY

Utrecht University, The Netherlands; University of Newcastle upon Tyne, UK

- ❖ Pharmacogenetics focuses on genetic determinants of drug response at the levels of single genes
- ❖ Presents a thorough coverage of pharmacogenetics and its impact on pharmaceuticals, therapeutics, and clinical practice
- ❖ Helps readers understand the implications of genetic variability on pharmacokinetics and pharmacodynamics
- ❖ Has chapters covering specific therapeutic areas and clinical aspects
- ❖ Includes chapters from academic and industrial leaders

READERSHIP: Pharmaceutical companies and drug regulatory authorities, researchers (academic and industry) in: pharmaceutical sciences, pharmacology, pharmacy, medicine, genetics, and biomedical sciences

NOV 2011 440PP 978-0-470-43354-6 CL £66.95 €80.40

Polypharmacology in Drug Discovery

JENS-UWE PETERS

F. Hoffmann-La Roche, UK

- ❖ Covers the two-sided nature of polypharmacology: its occurrence as an adverse drug effect and its benefit for certain therapeutic drug classes
- ❖ Has a section dedicated to case studies illustrating the drug discovery opportunities of polypharmacology
- ❖ Addresses an important topic in drug discovery that is not thoroughly covered outside of scattered journal papers
- ❖ Overviews state-of-the-art approaches and developments to help readers understand polypharmacology
- ❖ Fosters interdisciplinary drug discovery research by guiding researchers in neighbouring areas to polypharmacology

READERSHIP: Medicinal chemists and pharmacologists, pharma industry drug discovery programs, toxicologists, biochemists, computational chemists and biologists

OCT 2011 472PP 978-0-470-59090-4 CL £83.50 €100.20

Detection and Quantification of Antibodies to Biopharmaceuticals

Practical and Applied Considerations

MICHAEL G. TOVEY

Institut André Lwoff, France

- ❖ Covers all the principal aspects of the detection and quantification of antibodies, including a review of the expectations of regulatory authorities, greatly facilitates a more uniform approach across industry.
- ❖ Includes international perspectives from FDA, EMEA and Japan
- ❖ Provides a comprehensive review of neutralization and the ability to measure and apply antibodies to modern science and medicine.
- ❖ Serves as a resource for biopharmaceutical drug development and wraps together what must otherwise be gathered from an extensive literature search weighed and synthesized
- ❖ Compares strengths and weaknesses of various assays
- ❖ Covers risk-based analysis of the potential harm to patients should a neutralizing antibody (NAb) response occur
- ❖ Includes novel methods of detecting anti-drug neutralization antibodies, including one-step method based on the use of engineered reporter cells

READERSHIP: Biotechnology companies and pharma drug development specialists, analytical scientists and managers in pharmaceutical industry, basic and clinical immunologists and related professionals, academic pharmaceutical scientists

JUL 2011 440PP 978-0-470-56666-4 CL £66.95 €80.40

Development of Therapeutic Agents Handbook

SHAYNE COX GAD

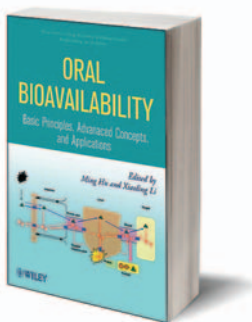
IBS, USA

- ❖ Provides a comprehensive and thorough reference on the development of therapeutic agents
- ❖ Focuses on applying concepts to current knowledge and needs in the field to facilitate new drug development
- ❖ Features extensive coverage and in-depth look into novel treatments and therapeutics
- ❖ Includes chapters on hot topics like new drugs and neutraceuticals, the discovery and development of vaccines, cancer therapeutics, and market overviews
- ❖ Presents chapters on therapeutic drug development for specific disease areas: cardiology, oncology, breast cancer, kidney diseases, etc
- ❖ Has an international author base, providing a global perspective and current needs in the industry

READERSHIP: Pharmaceutical scientists, medicinal chemists, computational chemists, preclinical development researchers, toxicologists, biochemists, molecular biologists, cell biologists, immunologists, formulation chemists, and quality assurance managers, all scientists and researchers involved in drug development and therapeutics

SERIES: PHARMACEUTICAL DEVELOPMENT SERIES

OCT 2011 1216PP 978-0-471-21385-7 CL £100.00 €120.00



Oral Bioavailability

Basic Principles, Advanced Concepts, and Applications

MING HU & XIAOLING LI

University of Houston College, USA; University of the Pacific College, USA

- ❖ Offers a comprehensive coverage of all aspects of oral bioavailability – a major hurdle in drug development that has been rarely addressed so thoroughly in the literature
- ❖ Provides a basic introduction along with more advanced detail
- ❖ Integrates physiochemistry with physiology and molecular biology
- ❖ Helps readers understand basic barriers to oral bioavailability, be acquainted with the methods used to determine relevant parameters, and comprehend challenges of drug delivery
- ❖ The coverage features basic concepts, advanced concepts, and recent progress in predicting and improving oral bioavailability, as well as techniques and technologies that characterize oral absorption and predict oral bioavailability.

READERSHIP: Pharmaceutical scientists, chemists, biologists, pharmacologists

SERIES: WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

JUL 2011 582PP 978-0-470-26099-9 CL £100.00 €120.00

Medicinal Chemistry of Nucleic Acids

LI-HE ZHANG, ZHEN XI, JYOTI CHATTOPADHYAYA & SIDNEY M. HECHT

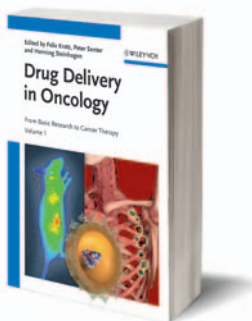
Peking University, China; Nankai University, China; University of Uppsala, Sweden

- ❖ Provides an up-to-date coverage of a large range of topics on nucleic acid chemistry and biology
- ❖ Collects authors with expertise in all areas of nucleic acids medicinal chemistry and therapeutic applications
- ❖ Helps readers understand the use of nucleic acid drugs to treat diseases like cancer
- ❖ Covers antisense, RNAi, and siRNA

READERSHIP: Medicinal chemists, biochemists, nucleic acid chemists, chemical biologists, pharmaceutical researchers, companies, and laboratories, academic programs and courses in medicinal chemistry, biochemistry, nucleic acid chemistry, pharmacology

SERIES: WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

JUN 2011 488PP 978-0-470-59668-5 CL £76.95 €92.40



Drug Delivery in Oncology

From Basic Research to Cancer Therapy

FELIX KRATZ, PETER SENTER & HENNING STEINHAGEN

Tumor Biology Center, Germany; Seattle Genetics, USA; Grünenthal GmbH, Germany

- ❖ The future of cancer therapy: Thanks to novel methods in targeting chemotherapeutics to hard-to-find cancer cells, a safe and efficient treatment of most cancers has become possible
- ❖ All pharmaceutical companies with an interest in oncology are heavily investing in this field.
- ❖ Timely and without peer: This is the first authoritative overview on modern cancer chemotherapy to be published. 100 international specialists have contributed their experience and recent data for what is likely to become the gold standard in the field
- ❖ Knowledge transfer from the lab to the clinic: By virtue of its clear and didactic structure, rich illustrative material and summary chapters, an efficient knowledge transfer across different disciplines, from basic research to the clinician and vice versa, is enabled.
- ❖ The book is also great for teaching medical students the foundations of 21st century cancer chemotherapy.

READERSHIP: Medicinal chemists, biotechnologists, pharmaceutical industry, biotechnological industry, oncologists, hospitals

OCT 2011 1350PP 978-3-527-32823-9 CL £325.00 €390.00

Power Ultrasound in Electrochemistry

From Versatile Laboratory Tool to Engineering Solution

BRUNO POLLET

The University of Birmingham, UK

- ❖ Sonoelectrochemistry is a safe, cost-effective, environmentally friendly and energy efficient technology
- ❖ Growing area of research, due to its potential use in green synthesis, nanoparticle production, and hydrogen and fuel cells.
- ❖ Relevant for both academic researchers, and practitioners in industry
- ❖ Edited by leading name, with many years of practical industrial experience
- ❖ Demonstrates that sonoelectrochemistry offers a practical sound solution to many industrial processes, e.g. water and soil remediation, heavy metals removal, production of micro- and nano-sized pharmaceutical ingredients

READERSHIP: Researchers in chemistry, electrochemistry, and electrochemical engineering and those in relevant industries, e.g. water treatment, effluent treatment & waste, automotive & aerospace, chemical production, nanoparticle production, fuel cells

DEC 2011 424PP 978-0-470-97424-7 CL £110.00 €132.00

Nuclear Energy Encyclopedia

Science, Technology, and Applications

STEVEN KRIVIT & JAY H. LEHR

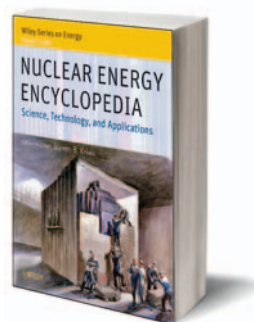
Both of Environmental Education Enterprises, USA

- ❖ Provides current knowledge and facts about today's nuclear science and technology
- ❖ Documents the history of nuclear energy
- ❖ Evaluates the future nuclear energy science and technologies Organized by subject Includes end-of-the-chapter references
- ❖ Chapters include figures, graphs, diagrams, formulas, photographs

READERSHIP: Nuclear science and engineering industry and academia; government program administrators; science, technology and environmental researchers; science journalists, general academia; financial and investment professionals

SERIES: WILEY SERIES ON ENERGY

JUN 2011 604PP 978-0-470-89439-2 CL £250.00 €300.00



Kinetics of Enzyme Action

Essential Principles for Drug Hunters

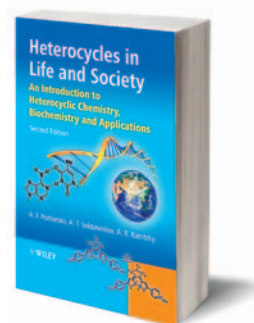
ROSS L. STEIN

Sirtris Pharmaceuticals, USA

- ❖ Is a comprehensive collection of theory and pragmatic approaches to guide readers in the science of performing detailed enzyme mechanistic studies
- ❖ Outlines the tools and techniques necessary to perform, understand, and interpret detailed kinetic studies for drug discovery
- ❖ Includes numerous case studies from the scientific literature

READERSHIP: Medicinal chemists who need to understand basic principles of enzyme kinetics so they are better able to interpret SAR data, scientists, senior scientists and directors in screening and biochemistry departments of biotech and pharmaceutical companies, biochemists, enzymologists, and molecular biologists, graduate students in medicinal chemistry, enzymology, metabolism and pharmacology, and pharma / drug related programs

JUL 2011 328PP 978-0-470-41411-8 CL £53.50 €64.20



Medical Toxicology of Drugs Abuse

Synthesized Chemicals and Psychoactive Plants

DONALD G. BARCELOUX

Pomona Valley Community Hospital, USA

- ❖ In-depth, sub-specialty resource on Medical Toxicology that does not compete directly with a general medical toxicology book
- ❖ The style of the book allows the easy application of the contents to searchable databases and other electronic products

READERSHIP: Clinical toxicologists, physicians, occupational physicians, forensic and law enforcement personnel, ems workers, hospital emergency rooms, medical schools, libraries, poison centers

SEP 2011 904PP 978-0-471-72760-6 CL £90.50 €108.60

Comparative International Homeland Security

Lessons for the United States

N. MORAG

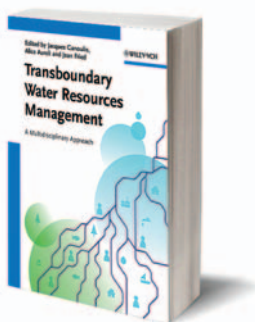
US Naval Postgraduate School, USA

- ❖ Covers strategies and tactic to combat terrorism from a number of the world's democracies including, but not limited to: Great Britain, Israel, France, Germany, Canada, Australia, Netherlands, Spain, Italy and Turkey.
- ❖ Topics are organized topically rather than by country which allows the practitioner to easily compare and potentially integrate the concepts presented into practice
- ❖ Introduces international homeland security operations for practitioners of U.S. homeland Security
- ❖ Integrates international homeland security measures, appropriately modified, to reflect American laws, institutions and even, in some cases, cultural sensibilities
- ❖ Provides examples such as how Asia dealt with Avian Flue of Jihadists

READERSHIP: Scientists, engineers, policymakers, law enforcement, engineering and technology libraries in academia, government workers, private and public sector risk managers, safety engineers, industrial hygienists, security professionals, facility managers, safety engineers, and emergency responders, health and safety trainers and consultants

SERIES: WILEY SERIES ON HOMELAND DEFENSE AND SECURITY

AUG 2011 368PP 978-0-470-49714-2 CL £60.50 €72.60



Transboundary Water Resources Management

A Multidisciplinary Approach

JACQUES GANOULIS, ALICE AURELI & JEAN FRIED

Aristotle University, Greece; UNESCO International Hydrological Programme, France; University of California, USA

- ❖ Water resources are the true bottleneck in developing the arid regions of Asia, Africa and the Middle East, where according to many experts "water wars" will increasingly occur.
- ❖ The efficient and fair exploitation of the limited freshwater resources in these regions has become one of the key global problems of the 21st century.
- ❖ By providing a theoretical framework as well as abundant case studies from Southern Europe, Africa, Asia and South America, this reference provides professionals and decision-makers with all the knowledge they need for their daily work
- ❖ Both UNESCO and the EU - by way of the Water Framework Directive - have recently issued new guidelines on the topic, which form the basis of the present book. All three editors have been actively involved in formulating and implementing these new guidelines.

READERSHIP: Hydrologists, water chemists, engineering scientists, environmental consultants and environmental organizations

SEP 2011 456PP 978-3-527-33014-0 CL £105.00 €126.00



Fischer-Tropsch Refining

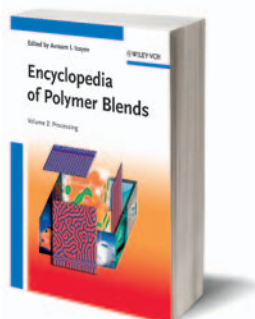
DR ARNO DE KLERK

Vanderbijlpark, South Africa

- ❖ Increasing need: FT refining is interesting for all countries that are considering alternative feed materials to crude oil.
- ❖ The main interest at present is in the USA, China, India, South Africa and (interestingly enough) the Middle East.
- ❖ In open literature there is also a much wider interest, because FT can also be used for natural gas, waste and biomass conversion.
- ❖ FT refining will play a major role in crude oil refining in the future, too
- ❖ It is the only book covering extensively this important issue. Chapters include topics which haven't been covered before and the reader will be presented a wealth of new insider knowledge and material
- ❖ Aspects of engineering, chemistry, catalysts are presented in great detail
- ❖ Especially the fuel and conversion technology section is of high interest for all people interested in refining and not only the FT specialist

READERSHIP: Chemical engineers, catalytic chemists, physical chemists, chemical engineers, and libraries

AUG 2011 638PP 978-3-527-32605-1 CL £125.00 €150.00



Encyclopedia of Polymer Blends

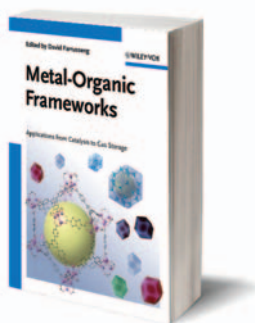
AVRAAM I. ISAYEV & SANJAY PALSULE

The University of Akron, USA; Indian Institute of Technology-Roorkee, India

- ❖ A complete and timely overview on the topic
- ❖ Up to date research and development with basic principles and applications
- ❖ Includes examples of case studies, laboratory and pilot plant experiments, with due reference to published and patented literature
- ❖ A useful and complementary addition to our polymer publishing program
- ❖ The Encyclopedia imparts knowledge of fundamentals principles and their applications to academicians, scientists and researchers, and informs the engineers, industrialists and entrepreneurs about the state of the art technology and its applications

READERSHIP: Polymer chemists, plastics technologists, the plastics industry, materials scientists, chemical engineers, process engineers

SEP 2011 306PP 978-3-527-31930-5 CL £125.00 €150.00



Metal-Organic Frameworks

Applications from Catalysis to Gas Storage

DAVID FARRUSSENG

IRCELYON, France

- ❖ Many fields like catalysis, hydrogen storage, gas purification and drug delivery are being revolutionized by this material type
- ❖ It has huge potential in industry for saving money, making greener technologies and for producing energy
- ❖ Also a critical approach: shows the advantages as well as the limits of the material
- ❖ Interdisciplinary view: Brings together the knowledge in different fields where this material is used

READERSHIP: Inorganic chemists, materials scientists, catalytic chemists, electrochemists, process engineers, chemical engineers, pharmaceutical chemists, libraries

AUG 2011 408PP 978-3-527-32870-3 CL £100.00 €126.00

Mass Spectrometry in Polymer Chemistry

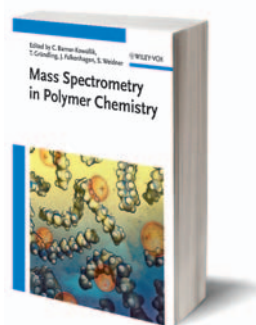
CHRISTOPHER BARNER-KOWOLLIK, TILL GRUENDLING, JANA FALKENHAGEN & STEFFEN WEIDNER

Karlsruhe Institute of Technology, Germany; Federal Institute for Material Research & Testing (BAM), Germany

- ❖ Two foci, one book: combines an up-to-date insight into mass-spectrometric polymer analysis beyond MALDI with application details of the instrumentation
- ❖ Balanced and thorough: the most important and most widely used mass-spectrometric methods are presented comprehensively by the most proficient experts in the world
- ❖ Better synthesis through better analysis: mass spectrometry yields valuable information about reaction and formation mechanisms, thus guiding the synthetic design process
- ❖ For entrants to the field and experienced researchers: basics and applications of mass spectrometry as well as detailed presentation of advanced polymer mass spectrometry topics

READERSHIP: Polymer chemists, materials scientists, analytical chemists, spectroscopists, chemists in industry and libraries

NOV 2011 450PP 978-3-527-32924-3 CL £100.00 €126.00



Collaborative Computational Technologies for Biomedical Research

SEAN EKINS, MAGGIE A. Z. HUPCEY & ANTONY J. WILLIAMS

University of Maryland, USA; PA Consulting, USA; Royal Society of Chemistry, USA

- ❖ Covers a neglected but important topic regarding the management and information technology basis of large scale collaborations in drug discovery and development
- ❖ Describes state-of-the-art collaborative and computing techniques for the pharmaceutical industry
- ❖ Helps readers understand the value of collaborations, how to structure partnerships, how to manage data within collaborations, and how to identify the types of tools and systems they will need for managing different kinds of data
- ❖ Provides a balance between technological depth and accessibility for the non-specialist reader
- ❖ Includes case histories of both good and bad collaborations

READERSHIP: Researchers developing IT systems in pharmaceutical industry and collaborative IT consortia for drug discovery, project managers, consultants, directors and VPs: computational biologists, chemoinformatics scientists, pharma IT professionals, computational chemists, bioinformatics scientists, IT architecture

SERIES: WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

MAY 2011 576PP 978-0-470-63803-3 CL £76.95 €92.40



Cancer as a Metabolic Disease

On the Origin, Management, and Prevention of Cancer

THOMAS SEYFRIDE

Yale University, USA

- ❖ Provides evidence that cancer is a metabolically driven disease that will require metabolic solutions for both its management and prevention
- ❖ Addresses controversial theories relating to the origins of cancer
- ❖ While no unifying theory of cancer exists, Seyfride ties the broadly accepted "hallmarks of cancer" that were presented in a well-known 2000 Cell paper, to the concept of cancer as a metabolic disease.
- ❖ Presents case studies from brain cancer, and discusses other types of cancer, such as breast and colon cancer, that present the same types of mutations, and to which principles in this book may be applied.

READERSHIP: Cancer researchers, clinicians, and policy makers, biochemists and medical biochemists, neuroscientists

NOV 2011 300PP 978-0-470-58492-7 CL £90.50 €108.60

Catalytic Methods in Asymmetric Synthesis

Advanced Materials, Techniques, and Applications

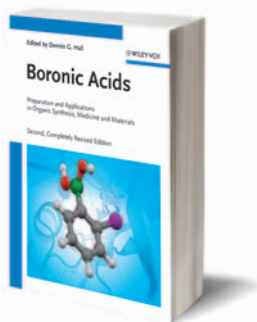
MICHELANGELO GRUTTADURIA & FRANCESCO GIACALONE

Both of the University of Palermo, Italy

- ❖ Gives a broad overview of advances in organocatalysis and flow chemistry
- ❖ Features numerous hot topics – organocatalysis, metal-organic catalysis, solid supported catalysts, drug discovery, and ionic liquids
- ❖ Provides connections between the above topics and their synthetic methods
- ❖ Covers applications for synthesizing biologically active molecules

READERSHIP: Researchers: organic chemistry, medicinal chemistry, biochemistry, pharmaceuticals, and polymers, Industry: pharmaceuticals, agriculture, polymers/materials science, fine chemicals, and biotechnology

SEP 2011 728PP 978-0-470-64136-1 CL £83.50 €100.20



Boronic Acids

Preparation and Applications in Organic Synthesis, Medicine and Materials

DENNIS G. HALL

University of Alberta, Canada

- ❖ After the huge success of the first edition, this new completely updated edition covers the whole field of organoboronic acids in one comprehensive handbook with almost 50% of new content
- ❖ It is the only available book on this topic
- ❖ Professor Dennis Hall, a world-reputed chemist, is joined by a selected group of top authors covering all modern aspects of boronic acid derivatives
- ❖ Experimental procedures make this book not only worth reading but also extremely useful

READERSHIP: Organic chemists, catalytic chemists, chemists working with/on organometallics, medicinal chemists, chemists in industry, libraries

OCT 2011 550PP 978-3-527-32598-6 CL £125.00 €156.00

Organoselenium Chemistry

Synthesis and Reactions

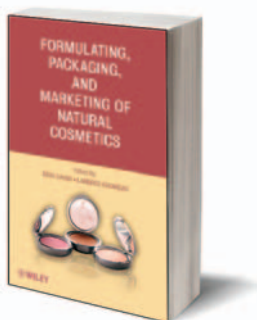
THOMAS WIRTH

Cardiff University, UK

- ❖ Hot topic: selenium-based methods in synthetic chemistry have developed rapidly over the past years and are now offering highly useful tools used for synthesis
- ❖ No competition: it is the only comprehensive handbook with focus on synthesis and it fills a gap in the current literature
- ❖ Clearly structured: each chapter deals with a special reaction type
- ❖ A table with ^{77}Se NMR shifts is included, which gives the reader support for practical problems, too
- ❖ Highly experienced and excellent editor

READERSHIP: Organic chemists, chemists working with/on organometallics, catalytic chemists, bioinorganic chemists and libraries

DEC 2011 300PP 978-3-527-32944-1 CL £105.00 €132.00



Formulating, Packaging, and Marketing of Natural Cosmetic Products

NAVA DAYAN & LAMBROS KROMIDAS

Lipo Chemicals Inc., USA; Coty Inc., USA

- ❖ Provides a comprehensive guide on natural ingredients in cosmetic/personal care products
- ❖ Provides the reader the basic tools and ideas to develop naturally derived formulas
- ❖ Discusses topics like Nuclear Magnetic Resonance (NMR) for identification of biomarkers, ayurvedic and traditional ingredients, regulatory perspectives of organic cosmetic products, and biodegradable packaging methods, and chromatographic methods of analyzing natural products
- ❖ Describes the benefits and challenges of cosmetic formulations with natural product, like microbial risks of eco-friendly packaging
- ❖ Offers balanced coverage that dispels the distortions common in promotional claims and clears up misconceptions regarding natural ingredients and cosmetics

READERSHIP: Cosmetic and personal care industry, natural product development experts, R & D directors, cosmetic chemists, formulation scientists

AUG 2011 464PP 978-0-470-48408-1 CL £83.50 €100.20



Handbook of Green Chemistry

Green Processes

PAUL T. ANASTAS, JOHN C. WARNER, JULIE ZIMMERMAN, MICHAEL J. KRISCHE,

ROBERT BOETHLING & JANINE BENYUS

Green Chemistry Institute, USA; University of Massachusetts Lowell, USA; University of Yale, USA; University of Texas, USA; Missoula, USA; Università Ca'Foscari, Italy

- ❖ Several institutes and groups are working under the label of GC, for example the Centre for Green Chemistry in Australia or the Canadian Green Chemistry Network.
- ❖ Conferences and journals take up successfully the topic, too. The US government supports the field with raising research funds and even industrial processes (Rohm and Haas, BASF) have been developed which are not only "greener" but also more profitable.
- ❖ For example, the innovation award of the BASF was awarded to a process using ionic liquids.
- ❖ Paul Anastas is the inventor of the famous 12 principles of Green Chemistry which are the fundament of the Green Chemistry idea.
- ❖ The volumes present comprehensively everything you need to know about this field. Covering topics like solvents and separations, this handbook will be without a doubt the one-stop reference book.
- ❖ Each part is edited by international leading experts, so top quality is guaranteed

READERSHIP: Organic chemists, catalytic chemists, chemical industry, environmental chemists, environmental agencies, chemical engineers and libraries

DEC 2011 1300PP 978-3-527-31576-5 CL £425.00 €408.00

Practical Synthetic Organic Chemistry

Reactions, Principles, and Techniques

STÉPHANE CARON

Pfizer, USA

- ❖ A hands-on guide for the organic chemist, highlighting the most reliable and useful reactions necessary for a chemist to strategically plan a synthesis.
- ❖ Proves a useful textbook for advanced undergraduate and graduate students in organic chemistry, as well as a practical guide to strategically planning and executing synthesis for the bench chemist in industry
- ❖ Organized classically by reaction type, this book covers the most important reactions in organic chemistry
- ❖ Additional sections on the synthetic routes of selected contemporary pharmaceutical drugs, practical solvents, and green chemistry concepts are incorporated.
- ❖ Contains references to the primary and review literature for each reaction
- ❖ Includes a concise and helpful index classifying the reactions in the text by the type of compound synthesized

READERSHIP: Students of organic chemistry, medicine, pharmaceuticals, polymers/materials, libraries, chemists in government institutes and industries

AUG 2011 886PP 978-0-470-03733-1 PR £60.50 €72.60

Modern Gold Catalyzed Synthesis

A. STEPHEN K. HASHMI & DEAN F. TOSTE

University of Heidelberg, Germany; University of California, USA

- ❖ Gold is one of the hottest topics in catalysis at the moment with more and more research being done in this field.
- ❖ Focusing on homogeneous catalysis this book also covers the main applications in heterogeneous catalysis.
- ❖ Following a look at the gold-catalyzed addition of heteroatom nucleophiles to alkynes, this monograph goes on to discuss gold-catalyzed additions to allenes and alkenes, gold-catalyzed benzannulations, cycloisomerization and much more.
- ❖ Concludes with a section on gold-catalyzed aldol and related reactions and the application of gold-catalyzed reactions to natural product synthesis.

READERSHIP: Organic chemists, catalytic chemists, chemists working with/on organometallics, libraries

NOV 2011 450PP 978-3-527-31952-7 CL £125.00 €156.00

Name Reactions in Heterocyclic Chemistry II

JIE JACK LI & E. J. COREY

Bristol Myers Squibb, USA; Harvard University, USA

- ❖ Provides a thorough and detailed follow-up to the well-received first volume on this topic
- ❖ Each section includes a description of the reaction, the historical perspective, a mechanism for the reaction, variations and improvements on the reaction, synthetic utilities of the reaction, experimental details, and current references to the primary literature
- ❖ Primary topics include updates to the first volume on the new and/or expanded reactions in three and four-membered heterocycles (e.g., Sharpless-Katsuki epoxidation, Darzens glycidic ester condensation, Paterno-Buchi reaction, etc), five-membered heterocycles (pyrroles and pyrrolidines, indoles, furans, thiophenes, oxazoles and isoxazoles), six-membered heterocycles (pyridines preparation via condensation, cycloaddition, rearrangement, and the Zincke reaction; quinoline and isoquinolines (Friedlander synthesis and Meth-Cohn); and other six-membered heterocycles such as Biginelli reaction)
- ❖ Contributors are authorities on name reactions in heterocyclic chemistry

READERSHIP: Graduate students in organic chemistry, research organic chemists and medicinal chemists in industries such as pharmaceuticals, biotech, agricultural, and fine chemicals, chemistry and medicinal libraries

SERIES: COMPREHENSIVE NAME REACTIONS

AUG 2011 688PP 978-0-470-08508-0 CL £83.50 €100.20

Terpyridine-based Materials

For Catalytic, Optoelectronic and Life Science Applications

ULRICH S. SCHUBERT, ANDREAS WINTER & GEORGE R. NEWKOME

University of Jena, Germany; University of Akron, USA

- ❖ The number of publications in the field of terpyridine chemistry and materials science – both on fundamental and applied aspects – skyrocketed in the last years
- ❖ The book reviews the state-of-the-art in terpyridine research and puts forward new ideas – with a strong emphasis on the application viewpoint.
- ❖ The authors comprehensively treat this important class of compounds and give an authoritative overview of the existing literature
- ❖ The authors belong to the leading figures in supramolecular chemistry in general and terpyridine chemistry in particular

READERSHIP: Materials scientists, chemists, polymer chemists, complex chemists, physical chemists, biochemists and libraries

OCT 2011 400PP 978-3-527-33038-6 CL £TBA €TBA



Encyclopedia of Hydrocarbon Fuel Science and Technology

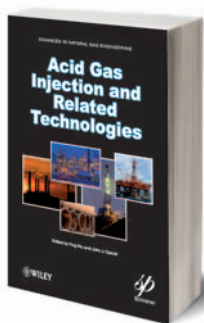
JAMES G. SPEIGHT

CD-WINC, USA

- ❖ The first of its kind, collecting both hydrocarbon fuel science and technology with the relevant work on petroleum refining in an expertly written 5 volume set
- ❖ Provides a handy reference book that offers valuable information and direction for the industry
- ❖ Focuses on 21st century technologies
- ❖ Five volumes cover petroleum, natural gas, coal, oil shale and biofuels

READERSHIP: Scientists, engineers, and academics interested in fuel technology, managers who need to understand fuel technology, graduate students and advanced undergraduate students

NOV 2011 1000PP 978-0-470-19516-1 CL £997.00 €1,196.40



Acid Gas Injection and Related Technologies

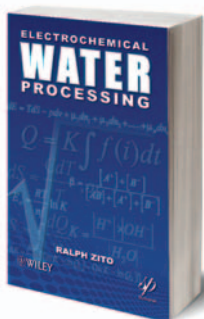
JOHN J. CARROLL & YING WU

Sphere Technology Connection Ltd., Canada; Geostorage Process Engineering for Gas Liquids Engineering, Canada

- ❖ Covers the most recent advances in natural gas engineering, in both upstream (drilling) and downstream (refining)
- ❖ Covers acid gas injection, the method of choice for disposing of small quantities of acid gas
- ❖ Covers technologies for working towards a zero-emission process in natural gas production
- ❖ Written by a team of the world's most well-known scientists and engineers in the field

READERSHIP: Process engineers, chemical engineers and engineers working in natural gas

APR 2011 431PP 978-1-1180-1664-0 CL £130.00 €156.00



Electrochemical Water Processing

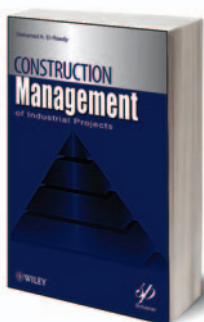
RALPH ZITO

Carnegie Institute, USA

- ❖ Discusses the various needs for water in our society
- ❖ Provides a detailed comparison between various methods for treating "contaminated" water sources such as distillation, reverse osmosis, chemical addition, and electro-dialysis
- ❖ Provides a series of models and mathematical analyses to estimate performance efficiencies and economics
- ❖ Design parameters and drawings describing different configurations of electrical approaches to water treatment in general
- ❖ Applications such as water softening, demineralization for industrial water uses, biocide applications and treatment of water for such uses as swimming pools are presented in some depth

READERSHIP: Chemical engineers, process engineers, mechanical engineers, engineers working in the energy field or working with industrial water

JUN 2011 400PP 978-1-1180-9871-4 CL £TBA €TBA



Construction Management for Industrial Projects

MOHAMED A. EL-REEDY

Worley Parsons, Egypt

- ❖ Covers the first principles of project management, the most necessary skills for the project leader to succeed and the features of industrial projects
- ❖ Illustrates how feasibility studies can be used in the construction of industrial projects and how to make decisions between alternatives with all the parameters that control industry from a business perspective
- ❖ Shows how to employ cost estimating tools, cost control, and time management to bring down costs and increase efficiency
- ❖ Explains in depth the "total building commission system," a new technique advanced by the USA's General Service Agency

READERSHIP: Engineers, managers, economists, and project managers working on construction projects in industry. Industries affected include the oil and gas industry, the process industries (such as food, paper, and wood), and manufacturing of all kinds. This is a very broad-based book, meant to be used by anyone working in construction of industrial projects

SERIES: WILEY-SCRIVENER

MAY 2011 412PP 978-0-470-87816-3 CL £83.50 €100.20

Flow Assurance

RAFIQ ISLAM

University of Louisiana, USA

- ❖ Offers new methods for fluid flow assurance
- ❖ Presents new models for efficiency at the well and in production
- ❖ Explains how new methods for assuring fluid flow lead to less environmental impact and more efficient production
- ❖ Offers mathematical tools for the engineer to use on a daily basis for his or her flow assurance issues

READERSHIP: Petroleum engineers, process engineers, production engineers, chemical engineers, petrophysicists, geologists, any engineer working with fluid or who has to deal with fluid flow issues

SERIES: WILEY-SCRIVENER

SEP 2011 TBAPP 978-0-470-62608-5 CL £130.00 €156.00

Innate Immune System of Skin and Oral Mucosa

Properties and Impact in Pharmaceuticals, Cosmetics, and Personal Care Products

NAVA DAYAN & PHILIP W. WERTZ

Lipo Chemicals Inc., USA; University of Iowa, USA

- ❖ Provides a comprehensive overview on the innate immune system of skin and oral mucosa and its relevance to pharmaceuticals, cosmetic chemistry, and personal care products
- ❖ Addresses an area that is of current interest but has been overlooked in the past
- ❖ Includes overview of antimicrobial peptides and lipids: their roles, cellular components, and the link between innate and adaptive immunity
- ❖ Discusses stressors and challenges that can influence skin immunity, like age and disease
- ❖ Explores innate immunity's response to the application of cosmetic products, UV induced immunosuppression, and microbial species
- ❖ Compiles valuable information for reference and suggests ways to assist research and development

READERSHIP: Pharmaceutical industry, skin product development experts, cosmetic and personal care industry, medical community- hospitals, dermatologists, surgeon's, dental, detergents and antiseptic market, pathologists and microbiologists

JUN 2011 388PP 978-0-470-43777-3 CL £93.50 €112.20

Chiral Drugs

Chemistry and Biological Action

GUO-QIANG LIN, QI-DONG YOU & JIE-FEI CHENG

Fu-Dan University, China; China Pharmaceutical University, China; Otsuka Pharmaceutical Co., Japan

- ❖ Provides an integrated view of chiral drugs from concept, synthesis, and pharmaceutical properties
- ❖ Covers 3 important chiral technologies: asymmetric synthesis, biocatalytic process and chiral resolution
- ❖ Has a section listing 25 approved or advanced-trial chiral drugs that lists each: drug name, chemical name and properties, a representative synthetic pathway, pharmacological characterizations, and references
- ❖ Takes an interdisciplinary approach combining synthetic organic chemistry, medicinal chemistry, and pharmacology
- ❖ Exposes readers to basic concepts and guides them to further advanced references where needed

READERSHIP: Medicinal chemists, organic chemists, pharmaceutical chemists, pharmaceutical and biotechnology industries, process chemists

AUG 2011 442PP 978-0-470-58720-1 CL £100.00 €120.00

Methods in Physical Chemistry

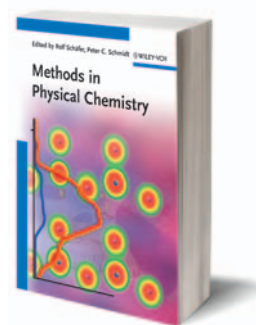
ROLF SCHÄFER & PETER C. SCHMIDT

Both of Technical University Darmstadt, Germany

- ❖ The methods in Physical Chemistry are the tools for scientists of many other disciplines: surface science, polymer science, industrial chemistry, physics, biology, polymer science?
- ❖ A revolutionary development in the instruments and techniques of Physical Chemistry during the last decades: this work is severely missed in the scientific community
- ❖ A critical view of the advantages and disadvantages of the methods is very valuable to the readers
- ❖ Deserves a place in every chemistry library, both academic and industrial

READERSHIP: Physical chemists, materials scientists, physicists, students in chemistry, ph.D. Students in chemistry, ph.D. students in material sciences, ph.D. Students in physics, materials institutes, chemical institutes, libraries at universities, libraries

NOV 2011 800PP 978-3-527-32745-4 CL £205.00 €258.00



Improving Crop Resistance to Abiotic Stress

NARENDRA TUTEJA, ANTONIO F. TIBURCIO, SARVAJEET SINGH GILL & RENU TUTEJA

International Center for Genetic Engin. and Biotechnology, India; Universitat de Barcelona, Spain

- ❖ Focusing on the most important topic in crop research in the 21st century.
- ❖ Well balanced international mix of contributors from industry and academia.

READERSHIP: Agricultural scientists, students of agriculture, plant physiologists, plant breeders, botanists and biotechnologists

DEC 2011 500PP 978-3-527-32840-6 CL £115.00 €144.00

Guidelines for Evaluating Process Plant Buildings for External Explosions and Fires

2nd Edition

Center for Chemical Process Safety (CCPS)

- ❖ Provides a single reference that explains the American Petroleum Institute (API) permanent (752) and temporary (753) building recommended practices and details how to implement them
- ❖ The new edition is over 150% larger than the previous edition due to more rigorous sitting standards set in place
- ❖ New standards also cover toxicity hazards in addition to fire and explosion hazards
- ❖ Provides methods that can be applied in already existing facilities
- ❖ Practical, easy-to-use guideline on what really matters in sitting process plant buildings and rating their blast and fire resistance

READERSHIP: Process safety professionals in all areas from government to academia to manufacturing; design engineers as well as risk engineers; insurers, especially those dealing with catastrophic loss potentials; municipal and regional fire inspectors and zoning commissions

SEP 2011 304PP 978-0-470-64367-9 CL £76.95 €92.40

Guidelines for Pressure Relief and Effluent Handling Systems

2nd Edition

Center for Chemical Process Safety (CCPS)

- ❖ Provides in depth guidance on how to design and rate emergency relief systems
- ❖ Presents methodologies in order to properly size all the components in a pressure relief system from the relief device to the stack
- ❖ Includes detailed pressure drop calculations that take into account mixed vapor-liquid streams, non-steady-state pressure driving force, and reacting streams so that engineers can select and properly install relief systems
- ❖ Comprehensive reference compiling the state of the art design methodologies from Design Institute for Emergency Relief Systems (DIERS®) as well as applicable API standards
- ❖ Enclosed CD with the CCFlow suite of programs and Superchems for DIERS® Lite used for helping design engineers calculate the correct sizing of the relief valves needed on various pieces or process equipment

READERSHIP: Process safety professionals in all areas from government to academia to manufacturing, design engineers as well as risk engineers, insurers, especially those dealing with catastrophic loss potentials, municipal and regional fire inspectors and zoning commissions

OCT 2011 608PP 978-0-470-76773-3 CL £100.50 €120.60



Peptide Folding, Misfolding, and Nonfolding

Reinhard Schweitzer-Stenner

VLADIMIR UVERSKY

Drexel University, USA

- ❖ Describes the relationship between protein/peptide misfolding and diseases, facilitating protein folding prediction, conformational plasticity, and ligand binding
- ❖ Addresses the growing interest in unfolded proteins and peptides as they affect crucial biological functions
- ❖ Provides an overview on what researchers have learned about unfolded peptides and how this knowledge facilitates the understanding of the folding process, the binding of ligands to receptor molecules and peptide self-aggregation
- ❖ Discusses different experimental, theoretical and computational concepts and approaches
- ❖ Lends insight to protein misfolding conditions in living systems, such as protein aggregation (and/or fibril formation), loss of normal function, and increased toxic function

READERSHIP: Researchers and students in biophysics, protein science, biochemistry, medical biochemistry, biotechnology and biomedical engineering, proteomics, structural biologists, protein folding experts, pharmacologists and drug discovery experts, molecular and cell biologists

SERIES: WILEY SERIES IN PROTEIN AND PEPTIDE SCIENCE

OCT 2011 416PP 978-0-470-59169-7 CL £83.50 €100.20

Oxidation of Amino Acids, Peptides, and Proteins

Kinetics and Mechanism

VIRENDER K. SHARMA & STEVEN E. ROKITA

F.I.T., USA

- ❖ Intended for readers interested in the role of nitrogen-containing molecules in aging, diseases, and production of potential disinfection byproducts in water and wastewater treatment
- ❖ Provides a summary of fundamental information on the kinetics and mechanism of amino acids by various oxidants
- ❖ Discusses oxidative chemistry of amino acids, peptides, and proteins
- ❖ Provides problems and their solutions associated with amino acids, peptides, and proteins in the aquatic environment

READERSHIP: Protein and peptide scientists, biochemists, biophysicists, environmental scientists, toxicologists and chemical engineers

SERIES: WILEY SERIES OF REACTIVE INTERMEDIATES IN CHEMISTRY AND BIOLOGY

SEP 2011 400PP 978-0-470-62776-1 CL £83.50 €100.20

A Matter of Density

Chemical, Biological, and Materials Sciences

N. SUKUMAR

Rensselaer Polytechnic Institute, USA

- ❖ Presents a conceptual treatment of electron density with equal emphasis on computational and philosophical questions in a coherent and logically connected manner
- ❖ Discusses the probabilities in statistical physics and the origins of quantum mechanics, quantum entanglement, exchange, density functional theory, Bader's theory of atoms in molecules, open systems and the theory of insulators
- ❖ Only book on the market that treats all of this related material in a coherent and logically connected manner
- ❖ Presents the historical development of the electron density concept and statistical origins of the quantum theory
- ❖ Analyzes the electron density in molecular systems

READERSHIP: Senior undergraduate and graduate students in chemistry and computational materials science, professors and researchers in quantum chemistry and computational materials science

NOV 2011 350PP 978-0-470-76900-3 CL £83.50 €100.20

Comprehensive Chiroptical Spectroscopy

Instrumentation, Methodologies, and Theoretical Simulations

Volume 1

NINA BEROVA, ROBERT W. WOODY, PRASAD POLAVARAPU & KOJI NAKANISHI

Columbia University, USA; Colorado State University, USA; Vanderbilt University, USA

- ❖ Extensive treatment of methods and instrumentation, including frontier areas
- ❖ In-depth description of theoretical methods and simulation techniques
- ❖ Presents the most important applications of chiroptical spectroscopy to problems in organic and inorganic chemistry, and biochemistry and structural biology
- ❖ The only book of its kind with comparable, up-to-date, in-depth coverage of recent developments and frontier topics
- ❖ Each chapter written by one or more leading authorities with extensive experience in the field

READERSHIP: Graduate students, postdoctoral fellows, researchers in chemistry and related fields in academia and industry

DEC 2011 920PP 978-1-1180-1293-2 CL £96.95 €116.40



Mossbauer Spectroscopy

Applications in Chemistry, Biology, Industry, and Nanotechnology

VIRENDER K. SHARMA & MASUO TAKEDA

F.I.T., USA; Toho University, Japan

- ❖ Lays the foundation by providing a detailed theoretical description of Mossbauer spectroscopy
- ❖ Provides extensive treatment of Mossbauer spectroscopy in frontier applications in inorganic chemistry, biochemistry, and nanoscience
- ❖ Addresses the use of Mossbauer spectroscopy for elements other than iron; i.e. gold and aluminium
- ❖ Addresses industrial and environmental applications

SEP 2011 350PP 978-1-1180-5724-7 CL £90.00 €108.00

Supramolecular Soft Matter

Applications in Materials and Organic Electronics

TAKASHI NAKANISHI

Max Planck Institute, Germany

- ❖ Bridges the gap between fundamentals and applications of soft matter in organic electronics
- ❖ Combines important topics to help supramolecular chemists and organic electronics work together
- ❖ Opens new directions in research for applying supramolecular assembly into organic materials
- ❖ Covers an interdisciplinary field of prime importance to government-supported R & D research
- ❖ Discusses the concepts and perspectives in a dynamic and interdisciplinary area
- ❖ Includes applications for energy conservation like photovoltaics and field effect transistors

READERSHIP: Organic semiconductors, electronics, polymer sciences, organic chemistry, supramolecular chemistry, macromolecular chemistry, liquid crystals, gels, optics, photophysics, materials science, grant-giving government arms (ie, National Science Foundation in the USA), academic, university, R & D libraries and groups

SEP 2011 508PP 978-0-470-55974-1 CL £83.50 €100.20

Chemistry for the Greening of the Environment

R. SANGHI & V. SINGH

LNM Institute of Information Technology, India; University of Allahabad, India

- ❖ The volume gives insight into many topics related to green chemistry and clean environment providing solutions to many of the existing pollution problems.
- ❖ It highlights with examples the need to avoid the usage of toxic solvents to get a better product with higher yield without compromising on its economic ease.
- ❖ Each chapter brings forward the latest literature and research being done in the related area.

READERSHIP: Chemists and environmentalists both in industry and academic institutions, industries include clean technology, renewable energy, biotechnology, pharmaceutical and chemical companies

SEP 2011 TBAPP 978-0-470-94308-3 CL £130.00 €156.00

Sustainable Energy Pricing

GARY ZATZMAN

EEC Research Organisation, UK

- ❖ Explores new scientific principles on which sustainability within the energy sector can be achieved
- ❖ Using pricing and valuation of resources as a tool, presents a new methodology for reducing waste and environmental impact in the energy industry while achieving sustainability for affordable energy
- ❖ Investigates previously misunderstood concepts, such as Return On Investment (ROI), pricing, and valuation in the energy industry and how they are often misrepresented or obscured to affect global energy prices
- ❖ Offers case histories, such as the Enron debacle, as examples of how energy pricing has often been done in the past and needs to be changed, to become sustainable

READERSHIP: Engineers, managers, economists, and scientists throughout the energy industry and economists and engineers working in sustainability, whether in industry or research

AUG 2011 45PP 978-0-470-90163-2 CL £110.00 €132.00

Mass Spectral and GC Data of Drugs, Poisons, Pesticides, Pollutants and Their Metabolites

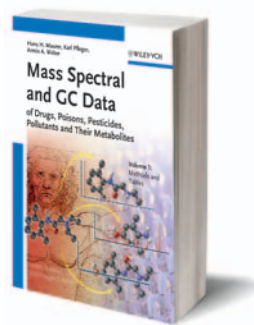
HANS H. MAURER, KARL PFLEGER & ARMIN A. WEBER

All of University of Saarland, Germany

- ❖ This atlas is the world's most comprehensive reference for toxic substances in clinical samples; more than 5000 copies of this atlas are in use today.
- ❖ 700 new spectra of novel designer drugs, AIDS therapeutics and other pharmaceuticals and their metabolites have been added, bringing the total up to 8500 unique substances.
- ❖ Important substance information such as structural formula, both systematic and trivial names, GC retention index and CAS registry number is included in the atlas that is not available from the software library.

READERSHIP: Toxicologists, clinical chemists, environmental chemists, spectroscopists, forensic scientists, hospitals and investigating authorities

JUN 2011 1650PP 978-3-527-32992-2 CL TBA



Activated Carbon for Water and Wastewater Treatment

Integration of Adsorption and Biological Treatment

FERHAN CECEN & ÖZGÜR AKTAS

Bogazici University, Turkey; TUBITAK-MRC (Marmara Research Center), Turkey

- ❖ Recent research has now been transformed into novel technology for more efficient water treatment
- ❖ Large and small-scale water treatment operations everywhere will benefit from these advances.
- ❖ Using biological rather than chemical cleaning steps helps to make treatment plants more sustainable
- ❖ Provides both an introduction to the topic as well as a detailed discussion of theoretical and practical considerations of innovative technology in the field

READERSHIP: Water chemists, process engineers, environmental chemists, public water agencies and municipal councils

OCT 2011 400PP 978-3-527-32471-2 CL £100.00 €126.00



Acid Mine Drainage

Causes, Assessment, Prevention, and Remediation

JAMES A. JACOBS, JAY H. LEHR & STEPHEN M. TESTA

All of Environmental Education Enterprises, USA

- ❖ Allows the reader to understand the formation of acid mine drainage as well as predicts controls and prevents its formation.
- ❖ Includes case studies from North America, Europe, Asia, and Developing Countries to highlight various approaches to the problem of AMD
- ❖ Provides a section where legal and policy issues are be discussed
- ❖ Offers the most up to date ideas on metals remediation, which makes finding control methods relatively easy

READERSHIP: Environmental chemists, environmental toxicologists, environmental scientists, geologists, mining engineers, reclamation specialists, foresters and wildlife planners, remediation contractors, consultants (geologists, engineers, environmental scientists, chemists) and regulators

DEC 2011 616PP 978-0-470-48786-0 CL £100.00 €120.00

Solid State Proton Conductors – Properties and applications in fuel cells

PHILIPPE KNAUTH & MARIA LUISA DI VONA

Both of Universite de Provence, France

- ❖ Fuel cells are a hot topic with societal implications and this book provides a complete treatment in a single source
- ❖ Fuel cell research is still an important area for funding
- ❖ Potential of bulk sales to fuel cell industry
- ❖ Includes coverage of both inorganic and organic (polymeric) proton conductors in one source
- ❖ Discusses application of proton conductors with specific reference to fuel cell electrodes and technology

READERSHIP: Fuel cell researchers and postgraduates in academia and industry, solid state ionics, physical chemistry, polymer and materials chemistry

DEC 2011 320PP 978-0-470-66937-2 CL £95.00 €114.00



Electrochemical Technologies for Energy Storage and Conversion

JIUJUN ZHANG, LEI ZHANG, HANSAN LIU, ANDY SUN & RU-SHI LIU

National Research Council, Canada; University of Western Ontario, Canada; National University of Taiwan, Taiwan

- ❖ Sustainable and reliable: fuel cells and batteries are the "real" alternative energy sources for small- to mid-scale portable and stationary applications
- ❖ Ecological necessity and economic viability: electrochemical devices promise environmentally friendly energy conversion and storage combined with commercial success – and begin to deliver
- ❖ State of the art, novel achievements and future directions: editors and authors from academia and industry share their in-depth knowledge of known and novel materials, devices and technologies with the reader
- ❖ Fundamentals, engineering and applications: uniformly structured, self-contained chapters give entrants to the field as well as experienced researchers a thorough overview of electrochemical energy storage methods and devices

READERSHIP: Materials scientists, electrochemists, chemical engineers, physical chemists, physicists, institutes, institutions, and libraries

DEC 2011 850PP 978-3-527-32869-7 CL £205.00 €246.00

Intelligent Surfaces in Biotechnology

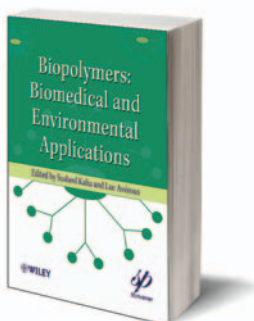
MARCUS TEXTOR & H. MICHELLE GRANDIN

Both of ETH Zurich, Switzerland

- ❖ Provides a comprehensive overview of surface modifications for applications in biotechnology Using intelligent coatings from metals to plastics
- ❖ Includes discussion on materials chemical properties, characterization and coating techniques, state-of-the-art examples, and an outlook on future directions
- ❖ Addresses broad applications in biotechnology including cellular engineering, wound healing, drug targeting and delivery, nanopatterning, and biosensing, and switchable (environmentally sensitive) surfaces
- ❖ Discusses bio-inspired design of new intelligent surface materials

READERSHIP: Researchers and advanced graduate students in materials and biomaterials, surface chemistry, biotechnology, chemical engineering, polymer science

DEC 2011 350PP 978-0-470-53650-6 CL £76.95 €92.40



Biopolymers

Biomedical and Environmental Applications

SUSHEEL KALIA & LUC AVÉROUS

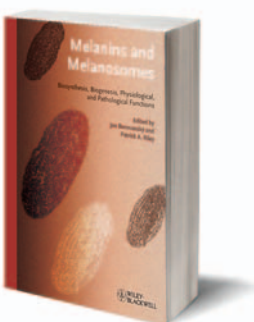
Singhania University, India; University of Strasbourg, France

- ❖ Focuses on biopolymers for both environmental and biomedical applications
- ❖ Details recent advances in technology in all areas from chemical synthesis or biosynthesis to end use applications
- ❖ Includes unique contributions from the renowned experts of this area of research
- ❖ Covers almost all the topics related to biofibers, bioplastics, monomers, vegetable/plant oils, natural rubber, bacterial Cellulose etc. and their applications
- ❖ Provides an important resource for all those researching in green chemistry

READERSHIP: A very Useful tool for scientists, academicians, research scholars, polymer engineers and those in the pharmaceutical, biotechnology, environmental, medical, packaging, and chemical engineering industries

SERIES: WILEY-SCRIVENER

JUL 2011 TBAPP 978-0-470-63923-8 CL £117.00 €140.40



Melanins and Melanosomes

Biosynthesis, Biogenesis, Physiological, and Pathological Functions

PATRICK A. RILEY & JAN BOROVSANSKY

University College London, UK; Charles University of Prague, Czech Republic

- ❖ Compiles all current knowledge and progress on the molecular basis of skin pigmentation
- ❖ Offers a comprehensive coverage of melanin biology
- ❖ Written by the top-experts in the field
- ❖ Covers the Biochemistry, Genetics and Pathobiology of pigmentation
- ❖ Examines newly-discovered roles for melanin around the body
- ❖ An valuable reference for both researchers and clinicians interested in pigmentation

READERSHIP: Cell Biologists, Cancer Researchers, Molecular Biologists, Biochemists, Dermatologists, Oncologists, Libraries at Universities, Cosmetics Industry

JUL 2011 428PP 978-3-527-32892-5 CL £115.00 €144.00

Processing of Ceramics and Composites

NAROTTAM P. BANSAL & ALDO BOCCACCINI

NASA Glenn Research Center, USA; Imperial College of London, UK

- ❖ Comprehensive source for state-of-the-art information regarding techniques/methods approaches for processing and fabrication of advanced ceramics and ceramic composites.
- ❖ Detailed description and applications of each method/approach/technique covered in a separate chapter.
- ❖ Chapters written by leading experts from around the world.

READERSHIP: Researchers in industry (engineers, manufacturers, technicians), advanced graduate students in ceramics or materials engineering, and corporate R&D libraries

OCT 2011 600PP 978-0-470-55344-2 CL £90.50 €108.60

Corrosion Protection against Carbon Dioxide

MICHAEL SCHÜTZE, BERND ISECKE & ROMAN BENDER

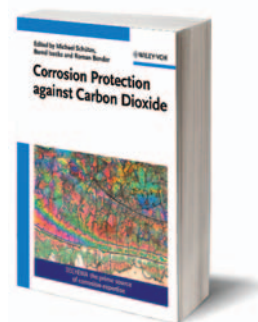
Dechema, Germany; Bundesanstalt f. Materialforschung und-prüfung, Germany

- ❖ Corrosion leads to plant shut downs which cause vast economical losses due to repair, lost output and dead time. This book compiles all state-of-the-art data on corrosion prevention.
- ❖ Food, petrol, metal processing, pharmaceutical and chemical industry face the problem of CO₂ corrosion, thus the book is a must-have for all engineers and scientists dealing with corrosion problems in CO₂ containing environments.
- ❖ 95% new, unpublished data about corrosion and materials
- ❖ Prevention of leaking plants and containers due to corrosion means safety appliance
- ❖ No corrosion = long-time stability of materials
- ❖ Corrosion prevention implies conservation of natural resources and safety of the environment against releasing hazardous substances.

READERSHIP: Corrosion specialists, metal processing industry, materials scientists, chemists in industry, process engineers, mechanical engineers, civil engineers, and libraries

SERIES: KREYSA CONTINUATION SERIES

JUN 2011 220PP 978-3-527-33145-1 CL £105.00 €126.00



Green Corrosion Chemistry and Engineering

Opportunities and Challenges

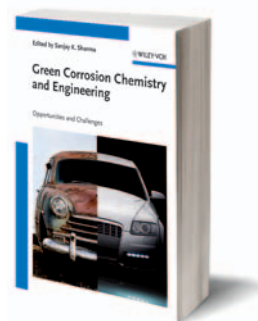
SANJAY K. SHARMA

Jaipur, Rajasthan, India

- ❖ Corrosion erodes more than metals: severe economic losses in the range of 3% of the GDP result from corrosion-related damage to workpieces and large-scale constructions
- ❖ Unique focus: the book specifically addresses the problems associated with corrosion for societies and economies – and how to solve them
- ❖ Material protection going green: the book presents the recent advances in surface coatings with environmentally benign means
- ❖ From understanding to application: knowledge of the mechanisms of corrosion allows researchers and developers to devise new methods and technologies to minimize degradation of materials

READERSHIP: Corrosion specialists, civil engineers, materials scientists, construction engineers, institutes, institutions, libraries

OCT 2011 400PP 978-3-527-32930-4 PR £60.00 €72.00



Zinc Oxide Materials for Electronic and Optoelectronic Device Applications

COLE W. LITTON, THOMAS C. COLLINS, DONALD C. REYNOLDS, PETER CAPPER, SAFA KASAP & ARTHUR WILLOUGHBY

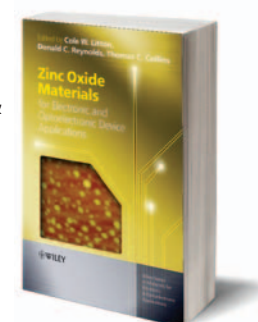
Florida State University, USA; SELEX Sensors & Airborne Syst. Infrared, UK; University of Saskatchewan, Canada; University of Southampton, UK

- ❖ An invaluable reference source for researchers and engineers in the field of materials/devices, providing complete coverage of all the essentials of zinc oxide material properties, growth, processing, characterization and devices in a single volume
- ❖ Much more comprehensive and balanced than existing titles
- ❖ Treats the recent advances including crystal growth, processing and doping and also the device problems and issues that seem to be impeding the commercialization of devices
- ❖ Edited by highly respected and internationally recognized researchers in the field of zinc oxide

READERSHIP: University, government, and industrial research and development laboratories, postgraduate students in the fields of electrical engineering, solid-state electronics, physics and chemistry, materials science, and nanotechnology

SERIES: WILEY SERIES IN MATERIALS FOR ELECTRONIC & OPTOELECTRONIC APPLICATIONS

MAR 2011 386PP 978-0-470-51971-4 CL £120.00 €144.00



Molecular Electronics

An Introduction

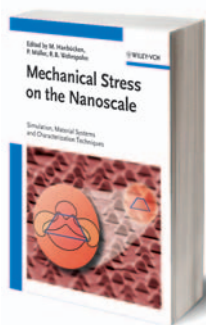
N. TAO

Arizona State University, USA

- ❖ Provides background to those entering the field from various disciplines and to students studying molecular electronics and nanotechnology
- ❖ Comprehensive text that provides a thorough overview of the background necessary for understanding molecular electronics, an introduction to quantum chemistry and quantum mechanics, nanoscale transport theory and models, and the engineering requirements for designing and building molecular-scale electronic systems
- ❖ Based upon a popular graduate-level class taught by the authors at Arizona State University and draws upon materials from tutorial lecture series at workshops and summer schools given worldwide

READERSHIP: Graduate and upper-level graduate students from electrical engineering, bioengineering, materials research, physics and chemistry, researchers in molecular electronics

SEP 2011 400PP 978-0-470-52144-1 CL £66.95 €80.40



Mechanical Stress on the Nanoscale

Simulation, Material Systems and Characterization Techniques

MARGIT HANBÜCKEN, PIERRE MÜLLER & RALF B. WEHRSPOHN

Centre Interdisciplinaire de Nanoscience de Marseille, France; Université Paul Cézanne, France; Luther-University, Germany

- ❖ The ability to measure stress or strain in semiconductor devices has impact on the design of novel devices
- ❖ Currently, there is no comprehensive overview of the recently developed nanostress techniques
- ❖ There are a number of books related to the different experimental techniques. However, a book combining theory, model systems and characterization techniques for stress and strain on the nanoscale is missing.

READERSHIP: Solid state physicists, materials scientists, electrical engineers, semiconductor industry, libraries at universities, and libraries at university institutes

DEC 2011 380PP 978-3-527-41066-8 CL £TBA €TBA

Plastics and Sustainability

MICHAEL TOLINSKI

University of Michigan's College, USA

- ❖ Gives basic background about the environmental-footprint distinctions between different plastic materials and applications.
- ❖ Explains the newest trends and developments by the plastics industry for making plastic materials that reduce environmental footprints
- ❖ Explains the trends in key application industries in their use and processing of plastic materials, and how these minimize energy or raw-material usage
- ❖ Indicates best practices for designing plastic products and selecting materials
- ❖ Shows the complexity of using life-cycle analysis and inventories for making sustainability decisions.

READERSHIP: Plastics and manufacturing industry professionals worldwide, reached through all common plastics book distribution networks, and environmental researchers

OCT 2011 TBAPP 978-0-470-93878-2 CL £63.33 €76.00

Handbook on Material and Energy Balance Calculations in Material Processing

3rd Edition

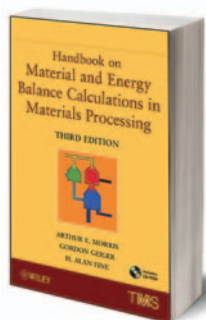
ARTHUR E. MORRIS

University of Missouri, USA

- ❖ The only material/heat balance book in existence for materials processing applications Timely; emphasizes the fundamental principles of the conservation of mass and energy, and the consequences of these two principles as they relate to materials and energy
- ❖ Applies computational chemistry techniques to materials processing and introduces new software developed by the author especially for material and heat balances Includes a large number of worked examples, illustrating conventional and novel problem-solving techniques in applications such as semiconductor processing, environmental engineering, the production and processing of advanced and exotic materials for aerospace, electronic and structural applications used to develop short courses at national materials-oriented meetings and other venues

READERSHIP: Graduate students and professors in materials science and engineering departments, professional engineers and those in government agencies such as the Department of Energy

MAY 2011 640PP 978-1-1180-6565-5 CL £100.50 €125.00



Laser Welding of Plastics & Polymers

Materials, Processes and Industrial Applications

ROLF KLEIN

Gentex, USA

- ❖ Sole English language publication focused on the topic
- ❖ Provides the basic processing know-how about laser welding of plastics
- ❖ Tailor-made for practitioners; includes case studies from automotive industry, houseware goods, and medical devices
- ❖ Must have for industrial welding operators, especially Engineers in Packaging, Component Manufacturing, and Medical Industry
- ❖ Author is important player in the laser welding of plastics field and was one of the first researchers to explore the possibility of using lasers in this context; currently serves as assistant-chairman of the DVS (German Association for Joining).

READERSHIP: Graduate students, engineers, materials scientists, film and packaging industry, plastics industry, applied physicists and bioengineers

DEC 2011 270PP 978-3-527-40972-3 CL £85.00 €102.00

Inkjet-based Micromanufacturing

Volume 9

JAN G. KORVINK, PATRICK SMITH, DONG-YOUN SHIN, OLIVER BRAND, GARY K. FEDDER,

CHRISTOFER HIEROLD & OSAMU TABATA

University of Freiburg, Germany; University of Sheffield, UK; Korea Institute of Machinery & Materials, Korea; Georgia Institute of Technology, Atlanta, USA; Carnegie Mellon University, USA; ETH Zürich, Switzerland; Kyoto University, Japan

- ❖ A must-have for any nano- and microtech R&D group: fundamental and hard-to-come-by practical knowledge on inkjet technology for the first time combined in one book
- ❖ Vital information on inkjetting as a nanostructuring approach: from the basics of instrumentation over patterning and its control to system integration for applications such as printed electronics, photovoltaics and flat-panel displays
- ❖ Well-balanced between industrial and academic perspective: chapters of industry authors (LGE, Samsung, Fuji, Epson, Océ) are complemented with contributions from leading research institutions (NREL, University of Freiburg, EPFL). More than proof-of-concept ideas: the book shows that inkjet-based manufacturing is a cheap, versatile and competitive technology

READERSHIP: Materials scientists, engineering scientists in industry, semiconductor industry, physicists, physical chemists, sensor industry, institutes, institutions, and libraries

SERIES: ADVANCED MICRO AND NANOSYSTEMS

DEC 2011 450PP 978-3-527-31904-6 CL £130.00 €156.00

Transport and Mixing in Laminar Flows

From Microfluidics to Oceanic Currents

ROMAN GRIGORIEV & HEINZ GEORG SCHUSTER

Georgia Tech, USA; CAU Kiel, Germany

- ❖ The most recent overview of important advances in the field, handling fundamental fluid mechanics problems like transport phenomena and optimal control of mixing at the micro- and nanoscale
- ❖ Review style articles provide a coherent view on the micromixing methods, a relevant sector of the rapidly developing field of microfluidics
- ❖ A much needed synopsis of theoretical models in order to direct experimental research and establish engineering principles for future applications like lab-on-a-chip techniques, or MEMS-based microfluidic devices
- ❖ Advance in handling fluids at the microscale promises revolutionary applications, e.g. in biochemical and medical analyses, environmental monitoring, homeland defense, or medical analyses such as blood tests and genetic screenings
- ❖ The team of editors provides both in depth knowledge of the topic as well as vast experience in guiding a team of authors

READERSHIP: Physicists, mechanical engineers, applied mathematicians, physical chemists, libraries at universities, and libraries at university institutes

SERIES: ANNUAL REVIEWS OF NONLINEAR DYNAMICS AND COMPLEXITY (VCH)

NOV 2011 250PP 978-3-527-41011-8 CL £85.00 €102.00

Nanoelectronics and Information Technology

Advanced Electronic Materials and Novel Devices
3rd Edition

RAINER WASER

RWTH Aachen University, Germany

- ❖ Focuses on the fundamental concepts and key technologies related to advanced electronic materials and devices
- ❖ Well structured; contributions grouped into eight topical sections and chapters of 20–30 pages
- ❖ Schematic drawings illustrate and explain key concepts
- ❖ Excellent layout and professional illustrations in full color
- ❖ End-of-chapter problems to reinforce and apply concepts

READERSHIP: Materials scientists, physicists, electrical engineers, chemists, master's students, Ph.D. students

DEC 2011 1000PP 978-3-527-40927-3 CL £70.00 €90.00

Solidification and Crystallization Processing in Metals and Alloys

HASSE FREDRIKSSON & ULLA AKERLIND

KTH Institute of Technology, Sweden

- ❖ Shows the link between theory and experimental results, and gives the theoretical background to common solidification problems
- ❖ Fredriksson is the best authority on solidification in the world
- ❖ Relevant for both advanced students and researchers, and practitioners in industry
- ❖ Includes theoretical analyses with solved examples, and questions and solutions
- ❖ Designed to complement Materials Processing During Casting and Physics of Functional Materials, which provide the theoretical background for this book
- ❖ Developed from lecture notes from courses taught at KTH over the last 30 years

READERSHIP: Masters and Ph.D. students, engineers and researchers in material science, engineering, chemistry and metallurgy, engineers and researchers in the industry working with projects related to solidification processing

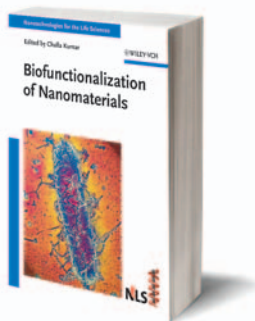
NOV 2011 824PP 978-1-1199-9305-6 CL £90.00 €108.00

Nanotechnologies for the Life Sciences

10 Volume Set

CHALLA S. S. R. KUMAR

Louisiana State University, USA



- ❖ The new technology drive of the 21st century paired with existing, multibillion dollar markets in which the major corporations are fighting hard to stay ahead of the competition and to keep their pipelines filled with new, innovative products
- ❖ Diagnostic and monitoring microdevices, microsurgery tools and instruments biocompatible materials for tissue engineering, drug delivery or artificial organs, and many others
- ❖ The entire series of 10 volumes gives an excellent, in-depth overview of all nanoscale technologies and fabrication methods in materials engineering towards the lifesciences
- ❖ Each volume is dedicated to a specific topic which is covered in detail by experts from that particular field
- ❖ The series reviews existing technologies as well as current developments and the directions they are taking
- ❖ Serves as a cross-disciplinary, major reference work in the field that brings together pertinent knowledge which is so far widely spread out over many different sources

READERSHIP: Chemists, biochemists, materials scientists, biologists, physicists, institutes, institutions, libraries, pharmaceutical industry, clinical chemists, cell biologists, bioengineers, pharmaceutical chemists, bioengineers and biophysicists

SERIES: NANOTECHNOLOGIES FOR THE LIFE SCIENCES

APR 2011 4680PP 978-3-527-33114-7 PR £499.00 €599.00

Supramolecular Chemistry of Fullerenes and Carbon Nanotubes

NAZARIO MARTIN, JEAN-FRANCOIS NIERENGARTEN

Universidad Complutense, Spain; Université de Strasbourg, France

- ❖ Combines two hot topics: both the discovery of fullerenes and nanotubes (Kroto et al.) and the development of supramolecular chemistry (Lehn et al.) have been awarded with the Nobel prize
- ❖ Basic concepts and real-life applications: from simple syntheses to complex architectures, from instructive examples to working experimental procedures, from photophysics to solar cells
- ❖ Scientific relevance and aesthetic appeal: fullerenes and nanotubes attract the attention of versed researchers and newcomers alike
- ❖ State-of-the-art and new ideas: the book collates the current knowledge and the latest developments for enabling breakthrough discoveries

READERSHIP: Materials scientists, organic chemists, molecular physicists, semiconductor industry and libraries

OCT 2011 325PP 978-3-527-32789-8 CL £105.00 €132.00

Intelligent Nanomaterials

ASHUTOSH TIWARI

National Institute for Materials Science, Japan

- ❖ The main thrust of this research has been in the combination of functional properties like thermal, electric, magnetic, superconducting, optical and biological, which has led to the development of a wide range of functional nanomaterials that in turn has produced a plethora of new technology compatible devices.
- ❖ Latest research and developments in smart nanomaterials: processing, properties, and applications

READERSHIP: Scientists, students and various researchers who are working in the fields of materials science, nanotechnology, chemistry, biomedical engineering, biomaterials, biochemistry, biotechnology, etc

OCT 2011 978-0-470-93879-9 CL £116.67 €140.10

Nanoscale Multifunctional Materials

Science & Applications

S. MUKHOPADHYAY

Wright State University, USA

- ❖ Beginning chapters deal with the topic from a general overview level and then later chapters delve into detailed scientific issues
- ❖ Provides comparisons of each property at the nanoscale with traditional-scale materials focuses on three of the most important application areas: energy, environment, and biomedical structures
- ❖ Addresses the multifunctional use and multidisciplinary discussion of the most versatile nanomaterials
- ❖ Consolidates various aspects of nanomaterials that helps people understand their versatility and how the same materials can be used in diverse applications spanning across disciplines
- ❖ Provides significant exposure for readers in the areas related to rapid cross-connection between fundamental science and its applicability

READERSHIP: Graduate students in materials science, chemistry, chemical engineering, electrical engineering, and physics, chemistry, engineering, physics, and materials science libraries, academic and industrial researchers in the field (chemists, physicists, chemical and electrical engineers, materials scientists)

NOV 2011 400PP 978-0-470-50891-6 CL £66.95 €80.40

In-situ Intercalative Polymerization

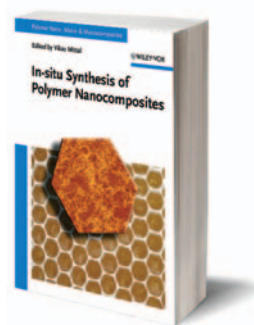
VIKAS MITTAL

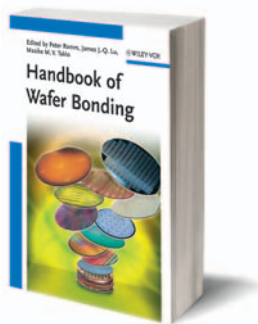
The Petroleum Institute, United Arab Emirates

- ❖ Achieving detailed control over the composite while it forms: in-situ polymerization allows to tweak the constituents' features under real-time process conditions
- ❖ The book explains the proven methods of how to in-situ polymerize different kinds of polymer composite materials that have different synthesis requirements

READERSHIP: Materials scientists, polymer chemists, chemical industry, chemical engineers, institutes, institutions and libraries

NOV 2011 350PP 978-3-527-32879-6 CL £105.00 €132.00





Handbook of Wafer Bonding

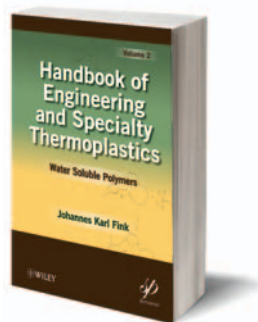
PETER RAMM, JAMES JIAN-QIANG LU & MAAIKE M. V. TAKLO

Fraunhofer Institut München, Germany; Rensselaer Polytechnic Institute, USA; SINTEF ICT, Norway

- ❖ Editors and authors are from microsystems companies and industry-near research organizations
- ❖ Recent developments in wafer bonding technology demand a new reliable and rounded-off reference work
- ❖ Accurate wafer bonding enables three-dimensionally stacked, high-performance chip arrays, thus circumventing the conventional 2D miniaturization limit
- ❖ Refined understanding and process control allow for a large-scale implementation of the technology

READERSHIP: Materials scientists, semiconductor physicists, semiconductor industry, IT engineers, electrical engineers, institutes, institutions, libraries

DEC 2011 450PP 978-3-527-32646-4 CL £125.00 €156.00



Handbook of Engineering and Specialty Polymer: Volume 2

Water Soluble Polymers

JOHANNES KARL FINK

Montanuniversität, Austria

- ❖ The volume is part of a 4-part series on Handbook of Engineering and Specialty.
- ❖ Reviews the chemical developments of the last decade of water soluble polymers.
- ❖ Comprehensively in an encyclopaedic fashion includes material published in journals, books, conference proceedings, as well as the patent literature.
- ❖ Augmented with four indices: Tradenames, acronyms, chemicals, and general index for user friendliness
- ❖ Unique compilation for the industry practitioner as well as the advanced student

READERSHIP: Chemical engineers, Advanced university courses in chemically biased plastics technology and polymer science

APR 2011 452PP 978-1-1180-6275-3 CL £117.00 €140.40

Carbon Nanotube-Polymer Composites

Manufacture, Properties, and Applications

BRIAN P. GRADY

University of Oklahoma, USA

- ❖ Addresses a timely and dynamic area of great interest to industry and academic research
- ❖ Explains chemical, physical, mechanical / rheological, electrical, and conductive properties of carbon nanotube (CNT)-polymer composites
- ❖ Summarises widely-scattered information (8000 journal papers) into one cover and provides references to key papers for readers wanting that more in-depth info
- ❖ Covers applications in: electromagnetics (shielding and electrodes), flame retardants, and electromechanics (sensors and actuators)
- ❖ Presents basic science and engineering of this dynamic and complex area at an accessible level: covers carbon nanotube fundamentals to help polymer scientists understand CNT, and describes polymer physics to help those in the CNT field
- ❖ Includes a glossary that defines key terms

READERSHIP: Polymer scientists and engineers, chemists, physicists, materials scientists in academia and industry, product developers and engineers, polymer processing consultants, polymer composites industry, nanotechnology researchers, electrical engineers, mechanical engineers

AUG 2011 338PP 978-0-470-59641-8 CL £83.50 €100.20

Self-Healing Polymers and Polymer Composites

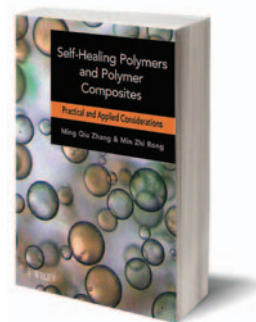
MING QIU ZHANG & MIN ZHI RONG

Both of Zhongshan University, China

- ❖ Incorporates fundamentals, theories, design, chemistry, and physical properties of self-healing polymers
- ❖ Includes techniques for characterizing the healing process of polymers and applications of self-healing polymers and polymer composites
- ❖ Stresses practical aspects of self-healing technology: self-healing coatings, automotive / building / construction industries, electronics, chemical production, engineering
- ❖ Integrates existing techniques and introduces novel synthetic approaches and target-oriented materials design and fabrication
- ❖ Focuses on engineering aspects and theoretical backgrounds of smart materials
- ❖ Illustrates a systematic route for developing techniques and materials to advance the research and applications of self-healing polymers

READERSHIP: Polymer and materials: scientists, chemists, engineers, researchers, and managers in industry: polymers, coatings, paints, medicals, pharmaceutical, materials science, defense, academic researchers, graduate-level courses in polymer science and engineering, materials science and engineering, chemical engineering, biochemical engineering, biomedical engineering, chemistry, and mechanical engineering

AUG 2011 456PP 978-0-470-49712-8 CL £76.95 €92.40



Handbook of Multiphase Polymer Systems

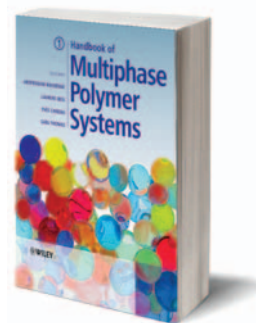
ABDERRAHIM BOUDENNE, SABU THOMAS, LAURENT IBOS & YVES CANDAU

Paris XII University, France; Mahatma Gandhi University, India; Paris XII University, France; Paris XII University, France

- ❖ A one stop reference resource for the area of multiphase polymer systems.
- ❖ Offers a comprehensive summary of many of the technical research accomplishments in the area of physical, thermophysical and interfacial properties of multiphase polymer systems.
- ❖ Provides coverage of a wide range of materials including gels, alloys, blends, and composites.
- ❖ Edited by well-respected academics in the field of multiphase polymer systems with contributions from leading international experts.
- ❖ Fully cover the preparation, properties and applications of advanced multiphase systems from macro to nano scales.

READERSHIP: Graduate and postdoctoral students, engineering students, research scholars (primarily in the fields of material science, thermal science, polymer science and polymer engineering) from industry and academia, plastic and rubber technologists, filler specialists and researchers in fields studying thermal and electrical properties

SEP 2011 1080PP 978-0-470-71420-1 CL £295.00 €354.00



Mechanical Properties of Solid Polymers

3rd Edition

IAN I. WARD & JOHN SWEENEY

University of Leeds, UK; University of Bradford, UK

- ❖ Covers all aspects of mechanical behaviour, including finite elastic behaviour (rubber-like behaviour), linear viscoelasticity and mechanical relaxations, mechanical anisotropy, non-linear viscoelasticity, yield behaviour and fracture.
- ❖ Combines material from the highly regarded 2004 edition with the detailed mechanics of the first edition.
- ❖ Provides an updated comprehensive account of the properties of Solid Polymers
- ❖ Written by one of the most respected authors in the field and his chosen collaborator drawing on more than 30 years of teaching in the field

READERSHIP: Academics, researchers and industrial scientists working in polymer and materials science, physics, chemistry and postgraduate students

OCT 2011 504PP 978-1-4443-1950-7 CL £100.00 €120.00

Introduction to Polymer Rheology

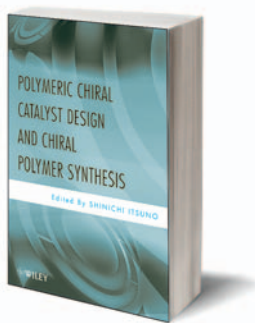
MONTGOMERY T. SHAW

University of Connecticut, USA

- ❖ Provides the reader with an understanding of the theory and industrial practice of polymer rheology clearly illustrated throughout, this book covers key issues and modern approaches to problems
- ❖ In an easy to read, introductory format, Introduction to Polymer Rheology gives the new student and practitioner in the field an understanding of key concepts with a lower level of mathematical treatment
- ❖ Incorporates worked problems and problems with appended answers to provide opportunities for review and learning additional more advanced concepts
- ❖ Provides an extensive how to section on rheological measurements, including the relationship of measurements to other characterization techniques.

READERSHIP: Practicing scientists and engineers interested in polymer rheology, appropriate as a primary text for courses entitled rheology, polymer rheology, polymer properties in chemistry and chemical engineering schools (upper level undergraduates or graduates)

NOV 2011 400PP 978-0-470-38844-0 CL £66.95 €80.40



Polymeric Chiral Catalyst Design and Chiral Polymer Synthesis

SHINICHI ITSUNO

Toyohashi University, Japan

- ❖ Features coverage of polymer-immobilized catalysts which are very useful in asymmetric catalysis
- ❖ Focuses on both the design of the polymer-immobilized asymmetric catalysts and the synthetic aspects of chiral polymers and dendrimers
- ❖ Includes chapters on peptide-catalyzed and enantioselective synthesis, optically-active polymers, and continuous flow processes
- ❖ Edited and written by leading researchers from around the world
- ❖ Organizes otherwise-scattered topics into a single source

READERSHIP: Polymer, organic, catalytic, synthetic, medicinal, chemists, chemists in industry: specialty chemicals, pharmaceutical manufacturers, academic researchers and lecturers in chemistry: polymer, organic, synthesis, catalysis

JUL 2011 566PP 978-0-470-56820-0 CL £90.50 €108.60

Rubber-Clay Nanocomposites

Science, Technology, and Applications

MAURIZIO GALIMBERTI

Insubria University, Italy

- ❖ Provides a comprehensive review of many areas of rubber-clay nanocomposites in a useful handbook format
- ❖ Helps scientists understand processing methods for nanocomposites preparation, and nanostructure characterization
- ❖ Covers clays for nanocomposites, including the synthesis, modification, nanomechanics, and energetic
- ❖ Presents applications of rubber-clay nanocomposites, in automobiles as tires and as fillers

READERSHIP: Polymer scientists and engineers from rubber/clay industry, automobile, aerospace, packaging industry, industrial and academic researchers in polymers, chemical engineers and practicing mechanical engineers

SEP 2011 598PP 978-0-470-56210-9 CL £83.50 €100.20

Self-Assembly and Nanotechnology Systems

Design, Characterization, and Applications

YOON S. LEE

Chemical Abstracts Service, USA

- ❖ Takes a tutorial approach by presenting clear questions at the beginning of each chapter
- ❖ Concludes each chapter with general applications
- ❖ Provides techniques for the design, application and characterization of self-assembly and nanotechnology systems efficiently and effectively
- ❖ Gives numerous examples that have scientific and technological importance, including many schematics that link assembly principles with actual systems
- ❖ Includes case studies to provide in-depth analysis of actual systems
- ❖ Chapters in the second and third parts follow the same format, making it easy to understand and follow different assembly principles and methods

READERSHIP: Students, professors, and researchers who desire to understand, design, and use self-assembly systems, nanoassembly systems, and nanofabrication systems primarily in chemistry, physics, biological science, materials science/engineering, and chemical engineering in academia and industry; also mathematicians, software development, computer scientists/engineers, and robotics engineers, courses in nanotechnology and chemical engineering, chemical engineers, physical and materials scientists

NOV 2011 432PP 978-1-1180-8759-6 CL £90.00 €108.00

Computational Thermo-Fluid Dynamics

In Materials Science and Engineering

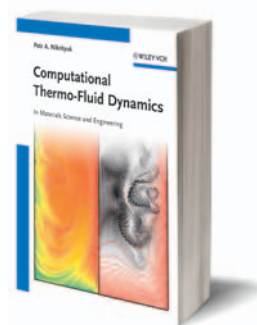
PETR A. NIKRITYUK

TU Bergakademie Freiberg, Germany

- ❖ Combines previously unconnected computational methods: the book discusses schemes and algorithms for the solution of fluid, heat and mass transfer problems coupled with electrostatics
- ❖ Theory and application united: the book presents the necessary mathematical background of computational thermo-fluid dynamics, the numerical implementation and the application to real-world problems
- ❖ More than formalisms and algorithms: the book stresses the importance of good, feasible and workable models to understand complex systems - and develops them in detail
- ❖ Saves costs and time in product development: computer modeling allows to investigate properties and behavior of systems without producing a prototype

READERSHIP: Materials scientists, ph.D. students in material sciences, solid state physicists, process engineers, mechanical engineers, lecturers in mechanical engineering, and libraries

AUG 2011 380PP 978-3-527-33101-7 CL TBA



Introduction to Surface Engineering and Functionally Engineered Materials

PETER MARTIN

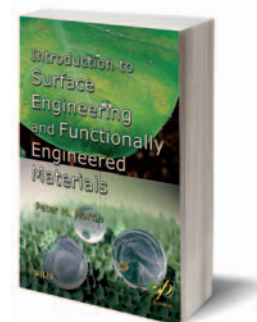
Battelle, USA

- ❖ Provides a clear and understandable introduction for users and developers of advanced engineered materials, particularly in the area of thin films
- ❖ Addresses fundamentals of modifying the optical, electrical, photo-electric, tribological, and corrosion resistance of solid surfaces and adding functionality to solids by engineering their surface, structure, and electronic, magnetic and optical structure
- ❖ Emphasizes thin film applications
- ❖ Includes multiple clear examples of the technologies, how to use them, and the synthesis processes involved

READERSHIP: Engineers, materials scientists, and product developers in industry who work with thin films, surfaces, coatings, optics, corrosion, nanotechnology, plasma, etc, students, faculty, and research community (government, industrial, and university labs)

SERIES: WILEY-SCRIVENER

JUL 2011 750PP 978-0-470-63927-6 CL £110.00 €132.00



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KLAUS WANDEL

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- ❖ Appropriate both as a reference for scientists in the field and an introduction to the current methods for newcomers
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- ❖ Covers current topics starting with the basics for diverse number of fields, e.g. material science, life science
- ❖ General chapters at appropriate places describe theoretical models and explain the respective phenomenon

READERSHIP: Surface chemists, surface physicists, solid state physicists, solid state chemists, physicochemists, materials scientists, vacuumphysicists, libraries

SERIES: 3051

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Environmental Physics

Sustainable Energy and Climate Change

3rd Edition

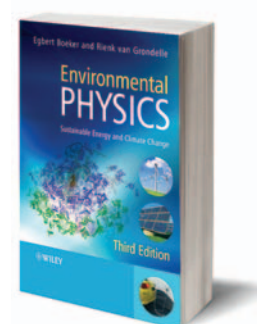
EGBERT BOEKER & RIENK VAN GRONDELLE

Free University of Amsterdam, The Netherlands

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An Introduction to Synchrotron Radiation

Techniques and Applications

PHIL WILLMOTT

Swiss Light Source, Switzerland

- ❖ A general introduction to synchrotron radiation and experimental techniques using synchrotron radiation.
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Linköping University, Sweden

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- ❖ The founder of Modelica, Hilding Elmqvist, supports this book, and his name is mentioned in the acknowledgement
- ❖ Modelica is gaining the most in industrial thermodynamics applications, e.g. cooling systems, car air conditioning, etc., where other tools perform rather badly.
- ❖ Modelica contracts with 7 software tool vendors including Dassault Systems (French based 3D modelling software company - owns good market share in Europe and Canada).
- ❖ MATLAB users would be interested in reading this book

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An Introduction to Theory, Experiment and Data Analysis

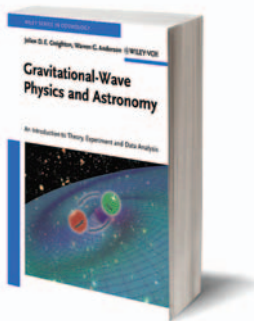
WARREN ANDERSON, PATRICK BRADY & JOLIEN CREIGHTON

University of Wisconsin-Milwaukee (UWM), USA

- ❖ The accessible, most up to date one-stop reference on Gravitational Astronomy
- ❖ Written by cutting edge experts with the Laser Interferometer Gravitational-Wave Observatory (LIGO) built by CALTECH and MIT
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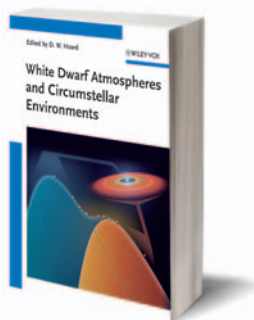
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Stellar Populations

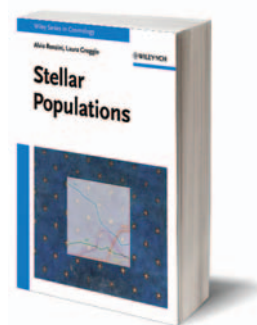
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Both of Osservatorio Astronomico di Padova, Italy

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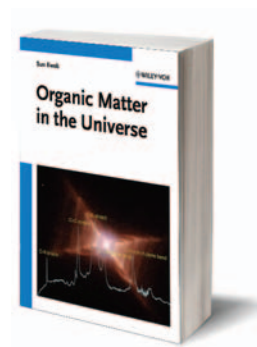
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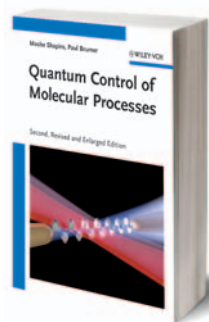
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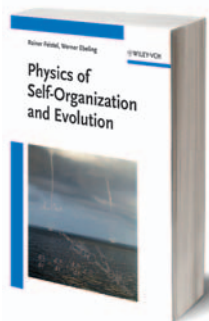
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Physics of Self-Organization and Evolution

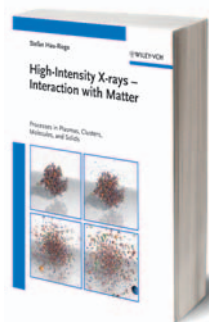
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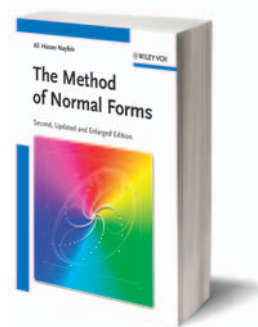
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Alice in Stretch and Squeezeland

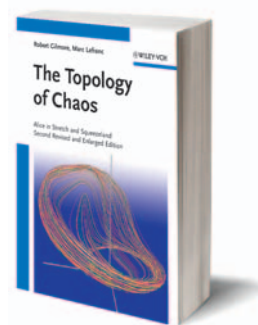
ROBERT GILMORE & MARC LEFRANC

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- ❖ The authors make this new edition more readable for non-specialist, e.g. by including a more gentle introduction and a chapter on frequently asked questions
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An Introduction to Synchrotron Radiation

Techniques and Applications

PHIL WILLMOTT

Swiss Light Source, Switzerland

- ❖ A general introduction to synchrotron radiation and experimental techniques using synchrotron radiation.
- ❖ Contains many detailed worked examples from the literature
- ❖ User community has grown steadily over the last 10 years and today includes researchers from many different fields and synchrotrons are possibly one of the best examples of multidisciplinary research
- ❖ Includes problems embedded within the appropriate part of the text to facilitate learning

READERSHIP: Masters and PhD students of synchrotron light sources and their applications, synchrotron scientists, and synchrotron users from all the scientific disciplines that could possibly profit from the use of synchrotron radiation

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Volume 1

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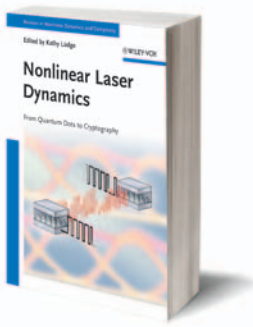
All of University of Michigan Medical School, USA

- ❖ Provides reliable methods for radiochemical syntheses and reactions, including all essential information to duplicate the procedure
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GAETANO ASSANTO

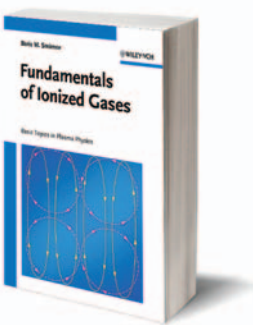
University of Rome, Italy

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Russian Academy of Sciences, Russia

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- ❖ Volume 1 covers fundamental concepts to introduce the basic questions, set the stage, and provide the basis for understanding and appreciating the individual achievements that have been made in the field.
- ❖ Volume 2 covers the methods, techniques, advances and identifies fields of future developments.

READERSHIP: Surface Physicists, Surface Chemists, Solid State Physicists, Solid State Chemists, Materials Scientists, Materials Institutes, Ph.D. Students in Material Sciences, Photochemists

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- ❖ Covers concepts, experiments, new femtosecond and attosecond time-resolved methods, and the most recent advances
- ❖ Volume 1 covers fundamental concepts to introduce the basic questions, set the stage, and provide the basis for understanding and appreciating the individual achievements that have been made in the field.
- ❖ Volume 2 covers the methods, techniques, advances and identifies fields of future developments.

READERSHIP: Surface physicists, surface chemists, solid state physicists, solid state chemists, materials scientists, materials institutes, ph.D. Students in material sciences

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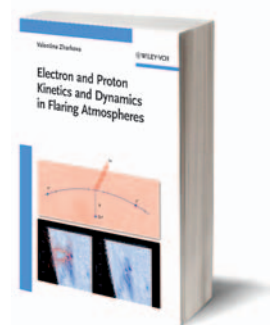
VALENTINA ZHARKOVA

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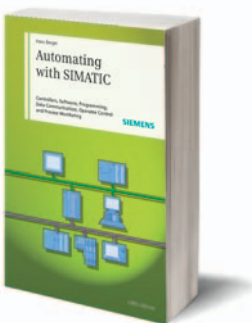
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READERSHIP: TBA

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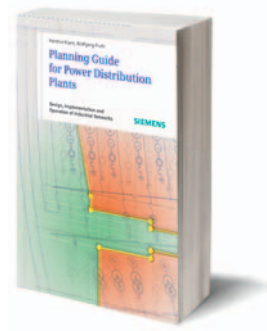
HARTMUT KIANK & WOLFGANG FRUTH

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READERSHIP: Industry, energy supplying companies, engineers, engineers in power technology, electrical engineers, engineering consultants, planning managers, electrotechnical industry, electrical fitters, electrotechnicians, engineers, power engineers

JUL 2011 420PP 978-3-895-78371-5 CL £50.00 €60.00



Introduction to Micro- and Nanooptics

JÜRGEN JAHNS, STEFAN SINZINGER & STEFAN HELFERT

University of Hagen, Germany; University of Ilmenau, Germany; University of Hagen, Germany

- ❖ Important topic within EE and Physics education: increasing demand for optoelectronic devices such as LEDs for Laser TV and illumination (replacement for bulbs)
- ❖ First textbook on the topic; market is dominated by multi-author books which report on recent research results
- ❖ Can be used in lectures on optics as part of the physics or EE education. Suitable for Erasmus Mundus program 'Optics in Science and Technology' (Universities of Delft, Jena, London, Paris, Warsaw)
- ❖ Authors cover aspects which are not handled in conventional texts on optics, e.g. the propagation of light in microoptical or nanooptical devices.
- ❖ Sample exercises illustrate approach to new and complex topics

READERSHIP: Engineering students, students in physics, lecturers, engineers, engineering scientists, libraries at universities, libraries at university institutes, universities of applied sciences

AUG 2011 360PP 978-3-527-40891-7 PR £39.95 €54.00



Practical Database Programming with Java

YING BAI

Johnson C. Smith University, USA

- ❖ Unlike competing titles, easy-to-read, novel like writing style is employed
- ❖ Covers both fundamental and advanced Java database programming techniques to appeal to both beginning and experienced readers
- ❖ Includes over 20 sample database programming projects, including detailed illustrations and explanations
- ❖ Includes homework and selected solutions for each chapter
- ❖ Easy-to-understand writing style to attract a wide variety of readers
- ❖ Powerpoint slides for instructors

READERSHIP: Programmers, software engineers, undergraduate or graduate students majoring in computer science/information system and engineering

AUG 2011 1000PP 978-0-470-88940-4 PR £50.50 €60.60



Solving Enterprise Applications Performance Puzzles

Queuing Models to the Rescue

LEONID GRINSHPAN

Oracle Corporation, USA

- ❖ Written by consulting technical director of the largest Enterprise Software provider, Oracle
- ❖ Written in mathematic-free style and contains ample tables, charts, and illustrations

READERSHIP: Computer system performance analysts, system architects and administrator, as well as programmers developing large enterprise applications

DEC 2011 300PP 978-1-1180-6157-2 PR £46.95 €56.40

Large-Scale Computing Techniques for Complex System Simulations

WERNER DUBITZKY, KRZYSZTOF KUROWSKI & BERNARD SCHOTT

University of Ulster, UK

- ❖ Presents an overview of contemporary large-scale computing technologies in the context of complex system simulation applications
- ❖ Cutting edge research taken from the QosCosGrid (Quasi-opportunistic supercomputing for complex systems in Grid environments) research and development project
- ❖ Suggests new areas where future research should be directed
- ❖ Bridges the gap between computer tech & complex systems modeling and simulation

READERSHIP: Researchers, technology and application developers, managers, and other professionals that are tasked with the development or deployment of complex systems applications, students and teachers looking to understand the limitations and future directions of large-scale computing technologies

SERIES: 6079

NOV 2011 240PP 978-0-470-59244-1 CL £66.95 €80.40

Topology Management in Sensor Networks

KAZI SAKIB, ZAHIR TARI & PETER BERTOK

The Royal Melbourne Institute of Technology, Australia

- ❖ Conveys the basic technological aspects of sensor networks to readers
- ❖ Introduces current technological trends particularly in the node organizations
- ❖ Provides implementation details of each networking type to help readers to be able to set up
- ❖ Sensor networks in their related job fields
- ❖ Each chapter contains review and discussion questions

READERSHIP: Network developers and researchers, graduate students

SERIES: 6079

DEC 2011 400PP 978-0-470-90539-5 CL £83.50 €100.20

Collaborative Filtering and Recommender Systems

JUN WANG

University College London, UK

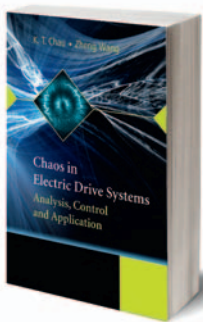
- ❖ Offers, via a careful balance between information filtering theories and practical algorithms, a comprehensive treatment of collaborative filtering and recommendation techniques, appealing to both professors, who can use the textbook for the lectures related to user-centric retrieval and filtering, and practitioners, who design web 2.0 and online retailer applications
- ❖ Includes intensive support for course instructors: problems and exercises in each chapter, a website where solutions and lecture slides may be downloaded, and a glossary with definitions of various terms.
- ❖ Provides a sample code or software library for algorithms explained in the book.

READERSHIP: University textbook for advanced undergraduates and first-year postgraduates; guidebook for practitioners working on information filtering, data mining algorithms, or web 2.0 applications for internet-based businesses and online retailers

OCT 2011 450PP 978-0-470-54798-4 CL £66.95 €80.40



TEXT BOOK



Chaos in Electric Drive Systems

Analysis, Control and Application

K. T. CHAU & ZHENG WANG

University of Hong Kong, China

- ❖ First monograph exploring chaos in electric drive systems
- ❖ Authored by a well-known scientist in the field
- ❖ A one-stop reference resource for latest findings on chaos in electric drive systems
- ❖ Arms readers with theoretical treatment, practical experiments and industrial applications
- ❖ Covers drive systems from simplest type to the latest
- ❖ Supplementary presentation files available

READERSHIP: Graduate students and research engineers who specialize in electric drives, electric vehicle, and electric machinery. Potential to become a main text for advanced courses of EE graduate students e.g. advanced electric drives, advanced topics in electric drives and control, research engineers and product designers in industrial electronics, consumer electronics, electric appliances and hybrid electric vehicles. The book would also be a good reference for senior undergraduate students in electrical engineering

JUN 2011 288PP 978-0-470-82633-1 CL £95.00 €109.30

Handbook of Marine Craft Hydrodynamics and Motion Control

THOR I. FOSSEN

University of Trondheim, Norway

- ❖ An intensive treatment of the modelling of marine craft, covering a large spectrum of issues at the root of methods for the analysis and design of advanced guidance and control systems
- ❖ Includes various case studies and a good balance of mathematical theory and practical application topics
- ❖ Covers recent updates and results, including new material on underwater and surface materials
- ❖ The complementary website hosts a useful Matlab/Simulink toolbox, and full colour photos

READERSHIP: Researchers in related marine and control fields, working in manned or unmanned maritime vehicles either in academia or industry, final year undergraduates and postgraduates, lecturers and development officers, researchers or practitioners in the area of rigid body modelling, control of dynamic systems, and sensor based systems

APR 2011 600PP 978-1-1199-9149-6 CL £125.00 €150.00



Control of Synchronous Actuators

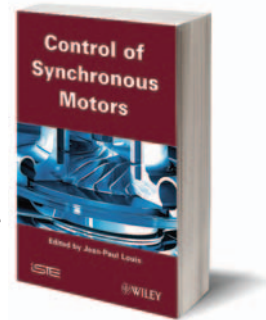
JEAN-PAUL LOUIS

ENS Cachan, France

- ❖ This work draws on well adapted models resulting from the Park's transformation, for both the most traditional machines with sinusoidal field distribution and for machines with non-sinusoidal field distribution which are more and more used in industry
- ❖ Both conventional control strategies like vector control (either in the synchronous reference frame or in the rotor frame) and advanced control theories like direct control and predictive control are thoroughly presented
- ❖ In this context, a significant place is reserved to sensorless control which is an important and critical issue in tomorrow's motors

READERSHIP: TBA

MAY 2011 TBAPP 978-1-8482-1273-2 CL £130.00 €156.00



Liquid Crystal Displays

Fundamental Physics and Technology

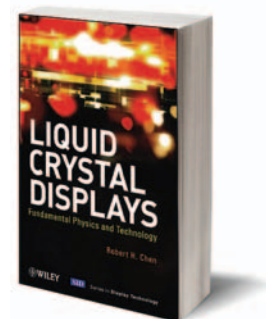
ROBERT H. CHEN

Chimei Optoelectronics, Germany

- ❖ Up-to-date and extensive resource on valuable technology
- ❖ Incorporates mathematical and scientific developments with historical context
- ❖ Explains engineering innovations that power everyday technology recognizable to everyone

READERSHIP: The primary audience for this book consists of science students interested in LCDs and workers in the LCD industry, including engineers and product designers, generally educated readers who appreciate science and technology and are curious about how modern electronic devices work

JUL 2011 520PP 978-0-470-93087-8 CL £53.50 €64.20



The Power and Beauty of Electromagnetic Fields

FREDERIC R. MORGENTHALER

M.I.T. faculty, USA

- ❖ Includes both conventional electromagnetic theory, Maxwell-Poynting representation, and also Alternate representation theory which is more suitable for modern EM environments.
- ❖ Students and theorists can examine two separate theories and witness the same outcomes.
- ❖ Includes three separate table of contents (level I, II & III) created in accordance with the knowledge level of readers.
- ❖ There are about 30 animations either downloadable or hyperlinked, which represent field transients - they are visual representations of the theory and facilitate readers' comprehension
- ❖ Material is classroom tested at MIT.
- ❖ Author is one of the authorities of EM theory and well respected in the industry
- ❖ Problems are included (solutions are not provided - will convince author to create one)

READERSHIP: Electromagnetics theorists, senior undergraduate, first year graduate students majoring wireless communication, electromagnetic fields/waves/forces

SERIES: IEEE PRESS SERIES ON ELECTROMAGNETIC WAVE THEORY

JUN 2011 700PP 978-1-1180-5757-5 CL £90.50 €108.60

Discontinuities in the Electromagnetic Field

M. MITHAT IDEMEN

Yeditepe University, Turkey

- ❖ Electromagnetic discontinuities are often omitted in the existing EM text.
- ❖ This book is the only comprehensive text that rigorously examine the nature of EM discontinuities
- ❖ Examples and problems are presented throughout the text to demonstrate presented calculation methods
- ❖ Classical concepts/theories, such distributions, confluence and the special theory of relativity are often used independently. In this book, these theories are used cohesively to resolve EM discontinuities
- ❖ IEEE APS sponsors the book

READERSHIP: Graduate students and professional researchers in Electromagnetics, mathematicians who are interested in examining electromagnetic field

SERIES: IEEE PRESS SERIES ON ELECTROMAGNETIC WAVE THEORY

AUG 2011 224PP 978-1-1180-3415-6 CL £73.50 €88.20

Embedded SoPC System with Altera NiosII Processor and Verilog Examples

PONG P. CHU

Cleveland State University, USA

- ❖ Offers experiment problems with various levels of difficulties in the end of each chapter.
- ❖ Provides complete code listing.
- ❖ Offers Multi-week projects in the end of each chapter.
- ❖ Includes annotated bibliographic notes for further reading.
- ❖ Includes a companion website with additional materials: HDL and C code listing (for download);
- ❖ Project files and configuration files for the DE1 prototyping board (for download);
- ❖ Links to referenced materials;
- ❖ Additional project ideas; Errata.

READERSHIP: Upper-level undergraduate and entry-level graduate students in computer engineering, practicing engineers, stand-alone text for advanced digital system, advanced embedded system, or hardware software co-design courses, as well as a companion lab text for more theoretical courses

AUG 2011 650PP 978-1-1180-1103-4 CL £80.00 €96.00

Qualitative Spatial and Temporal Reasoning

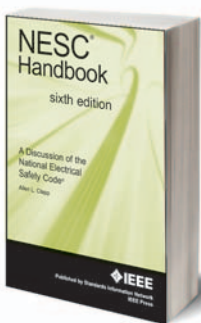
GÉRARD LIGOZAT

Paris-Sud University, France

- ❖ Starting with an updated description of Allen's calculus, the book proceeds with a description of the main qualitative calculi which have been developed over the last two decades
- ❖ It describes the connection of complexity issues to geometric properties.
- ❖ Models of the formalisms are described using the algebraic notion of weak representations of the associated algebras
- ❖ Includes a presentation of fuzzy extensions of qualitative calculi, and a description of the study of complexity in terms of clones of operations

READERSHIP:

AUG 2011 544PP 978-1-8482-1252-7 CL £130.00 €156.00



NESC Handbook

A Discussion of the National Electrical Safety Code
6th Edition

ALLEN L. CLAPP

- ❖ Gives users insight into what lies behind the NESC's rules and how to apply them
- ❖ Discusses how the NESC Committee has interpreted the rules in the Code and responded to change proposals during the past 85 years.

READERSHIP:

APR 2011 670PP 978-0-738-14930-1 PR £102.00 €122.40

Human-Computer Interactions Applications to Industrial Complex Systems

CHRISTOPHE KOLSKI

Université de Valenciennes, France

- ❖ Human-computer interactions are more and more present in our everyday life, and lead to many conceptual and methodological problems for the designers and evaluators of interactive systems
- ❖ This title focuses on human-computer interaction in the transport domain, where the traveler becomes a user of information systems, particularly before and during the travel. It focuses on traveler information and personalized systems, using a human-centered design approach

READERSHIP: Designers and evaluators of interactive systems, manufacturing and production specialists

JUN 2011 978-1-8482-1279-4 CL £96.95 €116.40

Risk Assessment

Theory, Methods, and Applications

MARVIN RAUSAND

Norwegian University of Science and Technology, Norway

- ❖ This book serves as a relevant and modern guide to current applications of risk analysis, supporting key standards and supplementing the legislation related to risk analysis.
- ❖ An in-depth chapter on hazard identifications methodologically outlines the steps of developing checklists, conducting preliminary hazard analysis, and conducting structured what-if analysis
- ❖ All methods for risk analysis are outlined in a uniform fashion: an introduction; objectives and application; qualitative and quantitative description; required resources required; and related advantages and disadvantages
- ❖ A final section focuses on applications of various risk assessment techniques, including environmental risk analyses, product/machinery risk analysis, and formal safety assessment /maritime risk.
- ❖ Each chapter concludes with problem sets and resources for further reading on the presented topics.
- ❖ Detailed appendices outline key terms, acronyms, and a related Web site houses supplemental slides for each chapter.

READERSHIP: As a text for courses on risk analysis/assessment at the upper-undergraduate and graduate level; as a reference for engineers, researchers, consultants, and practitioners who carry out risk assessment techniques in their everyday work

SERIES: STATISTICS IN PRACTICE

SEP 2011 672PP 978-0-470-63764-7 CL £83.50 €100.20

Stochastic Geometry for Image Analysis

XAVIER DESCOMBES

EPI Ariana, Spain

- ❖ Develops the stochastic geometry framework for image analysis purpose
- ❖ Two main frameworks are described: marked point process and random closed sets models
- ❖ The algorithms for sampling and optimizing the models as well as for estimating parameters are reviewed and numerous applications, covering remote sensing images, biological and medical imaging, are detailed
- ❖ Provides all the necessary tools for developing an image analysis application based on modern stochastic modelling

READERSHIP: Engineers, PhD students and researchers in stochastic geometry, applied sciences, and those interested in the topic

AUG 2011 978-1-8482-1240-4 CL £96.95 €116.40

Handbook of Nanoscscopy

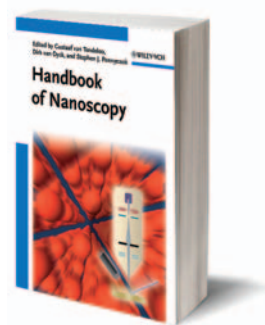
GUSTAAF VAN TENDELOO, DIRK VAN DYCK & STEPHEN J. PENNYCOOK

Electron Microscopy for Materials Science (EMAT), USA; University of Antwerp, Belgium; Oak Ridge National Laboratory, USA

- ❖ Successor of the Handbook of Microscopy which now supplies in-depth coverage of imaging technologies reaching down from the microscale into the nanoscale
- ❖ Complete coverage of all imaging technologies from the optical to the electron and scanning techniques
- ❖ Twofold approach: firstly, the various technologies as such are presented, then materials are covered class by class and how the different imaging methods can be applied successfully to them
- ❖ Broad range of different material types: metals, alloys, ceramics, polymers, semiconductors, minerals, quasicrystals, amorphous solids, and others

READERSHIP: Chemists, physicists, biologists, materials scientists, engineers, libraries, institutes, institutions, graduate students, lecturers, and industry

DEC 2011 1100PP 978-3-527-31706-6 CL £255.00 €306.00



Measuring Colour

4th Edition

ROBERT HUNT & MICHAEL POINTER

Colour Consultant, UK; Independent Colour Consultant, UK

- ❖ Written by two well known and highly regarded authors in the field of colour science.
- ❖ Collects descriptions of CIE procedures into a single convenient volume, explains the basic principles behind them and relates them to practical problems of colour measurement
- ❖ Updated to include the latest CIE thinking on the subject of the measurement of appearance.
- ❖ Includes Appendices which provide a review of photometric measures and tables of data necessary for colour calculations

READERSHIP: Researchers and engineers concerned with all aspects of the manufacture of the components of a digital imaging system, including chemists, production engineers, manufacturing engineers, as well as electronics engineers and physicists, masters and postgraduate students involved in the study of colour science

SERIES: THE WILEY-IS&T SERIES IN IMAGING SCIENCE AND TECHNOLOGY

SEP 2011 504PP 978-1-1199-7537-3 CL £70.95 €85.20

Art and Science of HDR Scene Imaging

JOHN J. MCCANN & ALESSANDRO RIZZI

McCann Imaging, USA; Università degli Studi di Milano, Italy

- ❖ Explores the imaging of scenes with a high dynamic range, starting with their treatment throughout the history of art and arriving at their contemporary scientific understanding in terms of digital imaging, measurement, and human response
- ❖ 4 distinct parts cover art history; optical measurements of scenes and images; human response to HDR; and current digital technologies for image processing and reproduction
- ❖ Illustrated in full colour throughout, including examples of fine-art paintings, HDR photography, and multiple exposure scenes
- ❖ Additional digital material supplied in a companion website

READERSHIP: Those practicing, studying or researching the field of high dynamic range imaging, particularly those in image processing, image science and technology, information display technology, human vision, and computer science, those working in colour science, perception, computer graphics and multimedia, games and entertainment, psychology, art, and human-computer interaction

SERIES: THE WILEY-IS&T SERIES IN IMAGING SCIENCE AND TECHNOLOGY

OCT 2011 304PP 978-0-470-66622-7 CL £70.00 €84.00

The Semantic Sphere

Computation, Cognition and Information Economy

PIERRE LÉVY

University of Ottawa, Canada

- ❖ The new digital media offers us an unprecedented memory capacity, an ubiquitous communication channel and a growing computing power
- ❖ This book explains the collaborative construction of a global hypercortex coordinated by a computable metalanguage
- ❖ Shows how we could transform our current opaque global brain into a reflexive collective intelligence

READERSHIP: The book addresses students and researchers in the various fields associated with this topic

AUG 2011 TBAPP 978-1-8482-1251-0 CL £96.95 €116.40

Reinforcement and Systemic Machine Learning for Decision Making

PARAG KULKARNI & BITHIKA SAMANTA

Both of Capsilon, India

- ❖ Authors have both industrial and academic experiences
- ❖ Case studies are included reflecting author's industrial experiences
- ❖ Downloadable tutorials are available

READERSHIP: The researchers in the area of machine learning and the applications of systemic learning, professionals working in high end research in machine learning, Researchers winging the area of systemic learning, reference book for machine learning labs

DEC 2011 350PP 978-0-470-91999-6 CL £76.95 €92.40

Swarm and Evolutionary Computing

Algorithms, Analyses, and Applications

SWAGATAM DAS & P. N. SUGANTHAN

Jadavpur University, India; Nanyang University, Singapore

- ❖ Practical application examples are presented along with each algorithm's description
- ❖ Appendix provides resources where readers can retrieve MALAB code, C codes, and software modules to exercise algorithms discussed in the book
- ❖ Presentation slides for various chapters of the book will be available for download
- ❖ A set of exercises and assignments are presented at the end of each chapter
- ❖ Selected worked solutions are available for instructors

READERSHIP: Graduate students, lecturers and researchers in computer science, particularly those in the field of computational intelligence, researchers and practitioners from several multi-disciplinary fields such as science, medicine, finance, economics and engineering, requiring mathematical optimization tools

DEC 2011 600PP 978-0-470-88134-7 CL £73.50 €88.20

Epistemology of the Cell

A Systems Perspective on Biological Knowledge

EDWARD R. DOUGHERTY & MICHAEL L. BITTNER

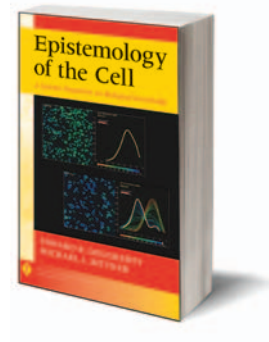
Both of Center for Imaging Science, UK

- ❖ Presents essential knowledge for the engineers/scientists of 21st century
- ❖ Written for biomedical engineers by the experts of systems biology
- ❖ Each chapter represents hot "emerging" key word/concept

READERSHIP: Biomedical engineers whose research interest include bioinformatics, biological data mining, biostatistics, and biological signal processing

SERIES: IEEE PRESS SERIES ON BIOMEDICAL ENGINEERING

AUG 2011 232PP 978-1-1180-2779-0 CL £73.50 €88.20



Thermal Treatment in Microelectronics

ANNIE BAUDRANT

CEA-LETI, France

- ❖ Specifically in the field of microelectronics, the self-fulfilling power of Moore's Law has driven an amazing pace of technological advances
- ❖ This book explains the fundamental physical and chemical rules in major front end treatments: oxidation, epitaxy, ion implantation and impurities diffusion

READERSHIP: Engineers or researchers who may be new to the field, including students and non-specialists

APR 2011 TBAPP 978-1-8482-1231-2 CL £96.95 €116.40

Digital Holography for MEMS and Microsystem Metrology

ERDAL ÇAYIRCI

NATO Joint Warfare Centre, USA

- ❖ Takes a practical applications-based approach, whilst including a thorough enough theoretical background to allow users a means of understanding basic concepts & thus identify areas where this technique can be adopted
- ❖ Discusses applications including microfluidics, crystallization and aerosol detection studies, micro-optical and diffractive optical systems and the testing of these components, and bio-imaging
- ❖ Discusses digital reflection holography, digital transmission holography, digital in-line holography, and digital holographic tomography and applications

READERSHIP: Researchers and professionals in the fields of MEMS and Microsystems and optical engineering, researchers and professionals in the fields of bioimaging and microfluidics

SERIES: MICROSYSTEM AND NANOTECHNOLOGY SERIES (ME20)

JUL 2011 224PP 978-0-470-97869-6 CL £80.95 €97.20

Micro Cutting - Fundamentals and Applications

KAI CHENG

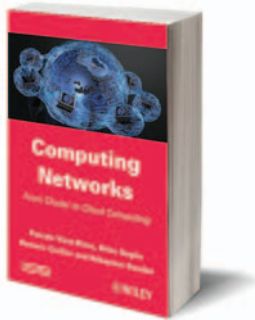
Leeds Metropolitan University, UK

- ❖ Addresses basic theory, design and analysis of micro-toolings and machines, modelling methods and techniques, and integrated approaches for micro-cutting
- ❖ Provides practicing engineers with good exemplars of how to implement and apply micro-cutting in precision and micro-manufacturing practices
- ❖ Presents applications in a variety of machining processes including diamond turning, micro-milling, micro-drilling, micro-grinding/polishing and ultraprecision machining, as well as the design and implementation of micro-cutting process chains and micromachining systems
- ❖ Authored by a team of leading global researchers

READERSHIP: Postgraduates, researchers and engineers in advanced manufacturing, micromachining and MEMS, production supervisors, tooling engineers, planning and application engineers, machine tool designers

SERIES: MICROSYSTEM AND NANOTECHNOLOGY SERIES (ME20)

OCT 2011 496PP 978-0-470-97287-8 CL £95.00 €114.00



Cluster and Computing Networks

PASCALE VICAT-BLANC PRIMET

CEA-LETI, France

- ❖ Explores the core of the new distributed computing infrastructures we are using today: the networking systems of clusters, grids and clouds
- ❖ Helps the reader to understand the technologies, specificities, constraints and benefits of these different infrastructures communication systems
- ❖ Looks at the core of clusters, grids and clouds networks, giving designers, application developers and users the keys to better construct and use these powerful infrastructures

READERSHIP: Network designers and distributed-application developers

MAY 2011 TBAPP 978-1-8482-1286-2 CL £83.50 €100.20

Energy Efficient Distributed Computing Systems

ALBERT Y. ZOMAYA & YOUNG-CHOON LEE

Both of the University of Sydney, Australia

- ❖ Brings together a group of outstanding researchers that investigate the different facets of green and energy efficient distributed computing
- ❖ One of the first books of its kind Features the very latest research findings on emerging topics
- ❖ Research will greatly feed into other technologies and application domains

READERSHIP: Practitioners, postgraduate students, postdocs, researchers, engineers and scientists working in high-performance computing areas

DEC 2011 450PP 978-0-470-90875-4 CL £80.50 €96.60

Rough-Fuzzy Pattern Recognition

Applications in Bioinformatics and Medical Imaging

PRADIPTA MAJI & SANKAR K. PAL

Both of Indian Statistical Institute, Calcutta

- ❖ Demonstrates applications of different rough-fuzzy methodologies to pattern recognition and data mining tasks with applications
- ❖ Describes the ways of integrating rough sets and fuzzy sets in decision-making and mining large data sets efficiently
- ❖ Demonstrates significance of rough-fuzzy techniques in all aspects/phases of pattern recognition
- ❖ Provides various new concepts with examples, merits and experimental results
- ❖ Special emphasis on bioinformatics and medical imaging among several other real life applications

READERSHIP: The book is useful to graduate students and researchers in computer science, electrical engineering, system science, medical science and information technology both as a textbook and a reference book for some parts of the curriculum.

SERIES: WILEY SERIES IN BIOINFORMATICS

DEC 2011 350PP 978-1-1180-0440-1 CL £66.95 €80.40

Military Laser Technology for Defense

Technology for Revolutionizing 21st Century Warfare

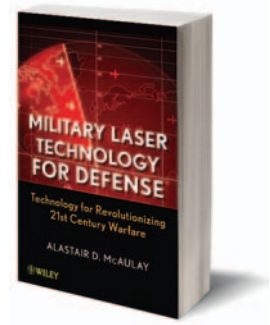
ALASTAIR D. MCAULAY

Wright State University, USA

- ❖ Laser weapons are not only effective for directed energy destruction but also for use against personnel by blinding, for countermeasures against heat seeking IR missiles, and for applications in space where communication and GPS satellites need protection.
- ❖ Provides the basic knowledge to create, design, and implement laser systems for the battlefield, including only unclassified or declassified information. The first book to collect and explain the laser system technologies used and proposed for the battlefield.
- ❖ Sufficient background in lasers and optics is included to make the book self-contained and accessible to students, engineers and scientists with minimal optics backgrounds.

READERSHIP: Scientists, engineers, and educators in government, corporate or academia, military academies and University ROTCs

MAY 2011 328PP 978-0-470-25560-5 CL £53.50 €64.20



Introduction to Laser Technology

4th Edition

C. BRECK HITZ, J. J. EWING & JEFF HECHT

Laser and Electro-Optics, Manufacturers' Association, Pacifica, CA, USA; Laser Focus World, USA

- ❖ Expanded material on material and wavelength in the semiconductor chapter
- ❖ New explanation of Raman lasers in the nonlinear chapter
- ❖ New chapter on fiber lasers
- ❖ Addition of thin-disk lasers to the chapter on solidstate lasers
- ❖ Addition of slab lasers to the solidstate chapter
- ❖ Improvement of chapter-end problems

READERSHIP: Technicians and laser-safety officers, students

DEC 2011 352PP 978-0-470-91620-9 CL £83.50 €100.20

Diode Lasers and Photonic Integrated Circuits

2nd Edition

LARRY A. COLDREN & SCOTT CORZINE

Both of the University of California, USA

- ❖ Two new chapters on Gan-based and quantum dot lasers and new photonic IC technology
- ❖ Examples and homework problems (with solutions) at the end of each chapter exemplify key points
- ❖ Consistent notation throughout all chapters and appendices that allow for self-contained treatment and varied levels of study
- ❖ Complete coverage of matrix multiplication techniques which are more exact, general, and easier to comprehend for modern-day students

READERSHIP: Advanced senior and graduate students in electrical engineering and applied physics, engineers and researchers in optoelectronics, optical communication and other microwave and optical technologies, practicing engineers and researchers in microwave and optical technology

OCT 2011 640PP 978-0-470-48412-8 CL £90.50 €108.60

Transients of Modern Power Electronics

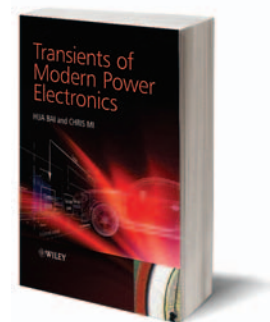
HUA BAI & CHRIS MI

Both of University of Michigan-Dearborn, USA

- ❖ Focuses on short-timescale factors influencing the operational performance and reliability of power electronic systems, explores their causes and corrects them by changing the control algorithm or peripheral circuit.
- ❖ Summarizes the general principles of system design from SOA design, structure optimization, and component placement (macroscopic perspective), alongside a focus on short-timescale transients (microscopic) in order to explore the possibility to synthesize these two timescale domains into the optimal converter design.
- ❖ Provides modelling methods of active and passive power devices, characteristics of selected semiconductor power devices, dead-band effects, and modulators errors.
- ❖ Includes an accompanying website providing simulation models.

READERSHIP: Researchers and practitioners in power electronics; R&D staff in the power electronic or related companies

JUL 2011 288PP 970-0-470-68664-5 CL £85.00 €102.00



Georedundancy and Service Availability

ERIC BAUER, RANDEE ADAMS & DAN EUSTACE

All of Alcatel-Lucent Reliability, USA

- ❖ General discussion about the capital expense/operating expense tradeoff that frames system redundancy and georedundancy
- ❖ Coverage of economic analysis in a qualitative way (e.g., discussing the categories of capital and operating expense and the factors that drive them) with the idea of framing the analysis so that IS/IT professionals can apply that general model to their enterprise's economic models with their own estimated costs
- ❖ Characterizes what the feasible and likely service availability benefit is of georedundant deployment compared to traditional/standalone deployment
- ❖ Approaches the subject from the perspective of high availability and reliability engineering, including appropriate conceptual and mathematical modeling, highlighting how high availability mechanisms can be tuned to maximize service availability when systems are configured to be geographically redundant, and what availability improvements can be made

READERSHIP: Network/system planners, IS/IT operations folks, and decision makers at enterprises; system architects, system engineers, developers, testers and others at system suppliers; disaster recovery/business continuity consultants and planners

SEP 2011 320PP 978-1-1180-3829-1 CL £60.50 €72.60

Statistical Methods in Healthcare

FREDERICK W. FALTIN, RON KENETT & FABRIZIO RUGGERI

The Faltin Group, USA; KPA Ltd., Israel; CNR-IMATI, Italy

- ❖ Provides a comprehensive, in-depth treatment of statistical methods in healthcare.
- ❖ Presents a reference source for practitioners and specialists in health care and drug development.
- ❖ Offers a broad coverage of standards and established methods through leading edge techniques
- ❖ Uses an integrated, case-study based approach, with focus on applications.

READERSHIP: Practitioners in healthcare-related professions (from clinical trials to medical devices design) with statistical backgrounds, applied statistical methods researchers

DEC 2011 448PP 978-0-470-67015-6 CL £80.00 €96.00

Statistical Methods for Quality Improvement

3rd Edition

THOMAS P. RYAN

Statistics.com

- ❖ Presents material in an easy-to-read and easy-to-follow format based on intuitive reasoning rather than heavy mathematical formulas, making the material accessible to industrial engineers and applied statisticians alike
- ❖ Includes revised and expanded material based on feedback from past users
- ❖ Features many new exercises in each chapter, and the solutions are available in an appendix
- ❖ Includes new coverage of multivariate EWMA charts including their robustness to nonnormality, a combined Shewhart-MEMWA control chart, and a method for detecting changing in the covariance matrix

READERSHIP: As a textbook for upper-level undergraduate and graduate-level courses on quality control and improvement and design of experiments; as a reference for practicing statisticians, engineers, and physical scientists interested in statistical quality control; and academic and corporate libraries

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

JUL 2011 648PP 978-0-470-59074-4 CL £83.50 €100.20

Physics of Thin-Film Photovoltaics

VICTOR G. KARPOV & DIANA SHVYDKA

University of Toledo, USA

- ❖ Presents the physics of large area thin-film devices as a field unto itself, which is an approach not found in existing literature
- ❖ Offers a self-contained, in-depth discussion of the physics of thin-film photovoltaics in a manner accessible to researchers and students to give a sound understanding of the past and a foundation for projecting future trends in the field
- ❖ Begins with a brief general introduction to renewable energy, photovoltaics, and thin-film technology challenges
- ❖ Reviews a variety of physical diagnostic techniques proven in thin-film photovoltaic technology

READERSHIP: Researchers (physics, chemistry, and EE departments), graduate students, microelectronic engineers, information technology engineers, biophysicists

OCT 2011 350PP 978-0-470-11014-0 CL £73.50 €88.20

Software Diagnostics Architecture

MILTON SMITH

ERCOT, USA

- ❖ Presents a practical approach to field-based software diagnostics and provides readers with a battery of features, techniques, and thoughtful insights that they can leverage for their own software projects
- ❖ Holistic software diagnostic architecture helps system designers record the right amount of information at the right time
- ❖ Faster problem diagnosis of runtime systems help system designers and implementors understand the level and type of information appropriate for different audiences
- ❖ Helps readers understand how the architecture and technology suggestions and examples are used to address business challenges and process improvements.

READERSHIP: Software architects, software engineers, software developers, software analyst and systems architects as well as upper level graduate students and graduate students

DEC 2011 200PP 978-0-470-43135-1 CL £60.50 €72.60

Real-Time Systems Design and Analysis

Tools for the Practitioner

4th Edition

PHILLIP A. LAPLANTE & SEPPO J. OVASKA

Both of the Helsinki University of Technology, Finland

- ❖ Provides an excellent foundation for new and experienced software engineering professionals and is an ideal reference book
- ❖ Useful in an industrial setting for new real-time systems designers who need to get up to speed very quickly
- ❖ Each chapter contains both easy and more challenging exercises that stimulate the reader to confront actual problems

READERSHIP: Software and computer engineers, graduate and upper level undergraduate students taking courses involving real-time systems, computer science, computer engineering, and electrical engineering students

DEC 2011 576PP 978-0-470-76864-8 CL £86.95 €104.40

Lean for Systems Engineering with Lean Enablers for Systems Engineering

B. W. OPPENHEIM

INCOSE, USA

- ❖ First book ever on the new body of knowledge that is Lean for Systems Engineering, including a practical guide on how to use the latest practices.
- ❖ Features 194 tables formatted to make the book easy to use as a guidebook, with user friendly pointers to the complex information.
- ❖ In 2010 INCOSE honored the creators of LSE and LEfSE (among them, the author himself) with the prestigious Best Product Award.
- ❖ This book gives readers insight into a technology which will soon be implemented across governments and organizations globally.

READERSHIP: All Systems Engineers, globally (est. 50,000); all students of systems engineering (100 university programs worldwide graduating 5-15 students per year); all engineers working in large Product Development programs (tens of thousands worldwide)

SERIES: WILEY SERIES IN SYSTEMS ENGINEERING AND MANAGEMENT

JUL 2011 324PP 978-1-1180-0889-8 CL £63.50 €76.20

The Analysis and Design of Linear Circuits

7th Edition

ROLAND E. THOMAS & ALBERT J. ROSA

United States Air Force Academy, Emeritus; University of Denver, USA

- ❖ The new edition features more skill examples, exercises, and associated problems.
- ❖ Specific topics emphasized are Thevenin Equivalent Circuits, Nodal and Mesh Analysis, Op-Amp Circuits, and Phasor Analysis.
- ❖ Furthermore the text is enhanced with great support to developing fundamental skills by adding similar-type skill problems.
- ❖ New and additional features include: additions to the IM containing worked-out solutions to many exercises; updated ABET section of the IM to reflect the latest changes to Criteria 2000; improved SM to include worked-out solutions showing key intermediate steps with rationale, and where appropriate, MATLAB solutions.

READERSHIP: Undergraduate students starting an Electrical Engineering course - this is an introductory level text. Electrical Engineers, Circuit Designers and readers interested in electrical engineering may also find this useful

SEP 2011 928PP 978-1-1180-6558-7 CL £107.00 €128.80





Micro and Smart Systems

GONDI ANANTHASURESH, K. J. VINROY, S. GOPALAKRISHNAN, ET AL

Indian Institute of Science, India; University of Pennsylvania, USA; Indian Institute of Science, India

- ❖ This is the first comprehensive textbook on an exploding area of research and practice that is filtering into the graduate and undergraduate curriculum.
- ❖ Practical examples and exercises will set this book apart from the professional reference books currently in use as texts on the subject.
- ❖ This book has nine chapters covering various topics in microsystems and smart systems including sensors and actuators, micro fabrication, modelling, finite element analysis, modelling and analysis of coupled systems, electronics and control for microsystems, integration and packaging, and scaling effects in microsystems.
- ❖ Also includes case studies on a few micro sensor systems to illustrate the application aspects.

READERSHIP: Upper level undergraduates of electrical engineering particularly those with a focus on micro electromechanical systems (MEMS) and engineering graduates

SEP 2011 600PP 978-0-470-91939-2 CL £47.99 €103.20

Power Electronics: A First Course

NED MOHAN

University of Minnesota, USA

- ❖ Focuses on three essential topics in the power sequence: power electronics, power systems and electric machines.
- ❖ Key features build on Mohan's successful Minnesota Power Electronics Research and Education texts (MNPERE); his systems approach puts dry technical detail in the context of applications; and includes substantial pedagogical support.
- ❖ The book follows a top-down systems-level approach to power electronics to highlight interrelationships between these sub-fields.
- ❖ Covers fundamental and practical design while following a building-block approach to power electronics that allows an in-depth discussion of several important topics.

READERSHIP: Undergraduate students that need to cover electronics in a related module, introductory level

NOV 2011 224PP 978-1-1180-7480-0 CL £39.99 €103.20

Electric Machines and Drives: A First Course

NED MOHAN

University of Minnesota, USA

- ❖ This textbook's systems approach puts otherwise technical detail in the context of applications that motivate students, for example hybrid cars and wind turbines.
- ❖ Substantial pedagogical support is available, including: PowerPoints, video clips, animations, clicker questions and a lab manual.
- ❖ Uses a fundamental and physics-based approach that not only allows the analysis of electric machines and drives, but also prepares students for learning how to control them in a graduate-level course.
- ❖ Use of the space-vector-theory that is made easy-to-understand. So far, this approach is used only in the graduate-level courses for controlling AC machines, but they are introduced in this book such a way that students can appreciate their physical basis.

READERSHIP: Undergraduate students studying Electrical Engineering with modules covering Electric Machines and Drives

SEP 2011 448PP 978-1-1180-7481-7 CL £39.99 €103.20

Power Systems: A First Course

NED MOHAN

University of Minnesota, USA

- ❖ Focuses on three essential topics in the power sequence, based on applications relevant to this age of sustainable energy, such as wind turbines and hybrid electric vehicles.
- ❖ Three main topics include power electronics, power systems and electric machines.
- ❖ Key features build on Mohan's successful Minnesota Power Electronics Research and Education texts (MNPERE); his systems approach puts dry technical detail in the context of applications; and includes substantial pedagogical support PowerPoints, video clips, animations, clicker questions and includes a lab manual.
- ❖ Follows a building-block approach to power electronics that allows an in-depth discussion of several important topics that are usually left. Topics are carefully sequenced to maintain continuity and interest.

READERSHIP: Undergraduate Electrical Engineering students and students with cross over modules, introductory level

DEC 2011 300PP 978-1-1180-7479-4 CL £39.99 €103.20

Microwave Engineering

4th Edition

DAVID M. POZAR

University of Massachusetts at Amherst, USA

- ❖ Includes more material on active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects.
- ❖ On active devices, there's more updated material on bipolar junction and field effect transistors.
- ❖ New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates.
- ❖ Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for micro strip line, and a discussion of how to determine unloaded.

READERSHIP: For senior or first-year graduate students on a course which covers Radio Frequency (RF) and Microwave Engineering

OCT 2011 720PP 978-0-470-63155-3 CL £83.50 €100.00

Electronics

ENRIQUE J. GALVEZ

Colgate University, USA

- ❖ Up-to-date and comprehensive coverage of both digital and analogue electronics.
- ❖ A central emphasis of the text is that electronics is hands-on; that the objective is to build something; and that no black-boxes should be left unopened.
- ❖ Focusing on discrete components so that students can build their understanding of more complex integrated devices and their specifications.
- ❖ Comes with an accompanying Lab Manual.

READERSHIP: Physics and engineering students who have taken a calculus-based introductory physics course

DEC 2011 384PP 978-0-470-88968-8 CL £39.99 €103.20



The Future of Voice Telephony and Unifying Communications

WILLIAM A. FLANAGAN

Flanagan Consulting, USA

- ❖ Includes a very detailed index
- ❖ Tells readers how to deal with vendors, network engineers, data center gurus, and top management with the confidence of a clear understanding of how things really work in Voice Telephony
- ❖ Provides a useful tool as the new hire's introduction to the communications industry

READERSHIP: Engineers and technical managers, with the book intended to give this market enough information to stay ahead of vendor sales people and to deal effectively with sales engineers. Also useful for training new entrants into the industry, notably sales reps and sales engineers at vendors of related products and services. CEO, CFO; students

DEC 2011 300PP 978-1-1180-1921-4 PR £40.50 €48.60



The Next Generation of Bluetooth Wireless Technology - Classic Bluetooth: Bluetooth Low Energy and Bluetooth High-speed

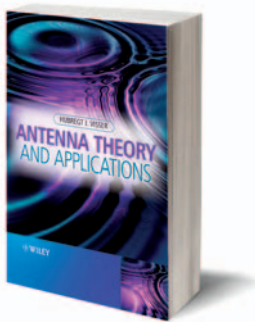
DEAN ANTHONY GRATTON

- ❖ Offers the reader detailed guidance covering all aspects of the new Bluetooth v4.0 specification
- ❖ Provides know-how for the testing, certification and qualification processes, which are all new for the Bluetooth v4.0 specification
- ❖ Discusses the radio, the physical layer; the host controller variants; the software protocol stack; new topologies and security, encryption and authentication schemes
- ❖ Assists the reader in making effective choices as to their development roadmap
- ❖ Features illustrations of the RF transceiver; the software make-up and tables showing aspects of specification and field addressing in relation to the various protocols used in the new software stack
- ❖ Includes an accompanying website

READERSHIP: Software engineers/developers, wireless engineers, systems engineers, technology researchers, and product planners, technical marketers, technical project managers, business analysts, and consumers

NOV 2011 416PP 978-1-1199-9048-2 PR £45.00 €54.00





Antenna Theory and Applications

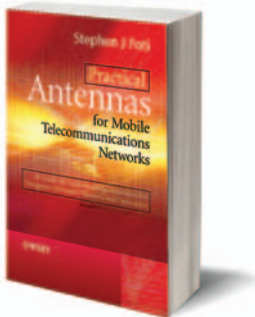
HUBREGT VISSER

TNO Industrial Technology, The Netherlands

- ❖ Covers the mathematical and physical background that is needed to understand electromagnetic radiation and antennas
- ❖ Discusses the origin of radiation and provides an in-depth explanation of antenna parameters
- ❖ Explores all the necessary steps in antenna analysis allowing the reader

READERSHIP: Advanced (last year Bsc, Msc) students in antenna and RF engineering, wireless communications, electrical engineering, radio engineers and other professionals needing a reference on antenna theory, advanced/senior radio engineers, designers and developers

NOV 2011 304PP 978-1-1199-9025-3 CL £50.00 €60.00



Practical Antennas for Mobile Telecommunications Networks

A Guide to Understanding Base Station Antennas

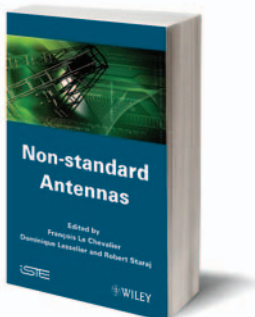
STEPHEN FOTI

Northumbria University, UK

- ❖ Combines both introductory and specialist material covering antenna theory overview through to modeling considerations, manufacturing issues, evaluation criteria and future BTS antenna systems
- ❖ Aims to provide an enhanced understanding of antennas by using the minimum of high level mathematics and the maximum of figures, diagrams, and practical examples
- ❖ Features numerous antenna design examples with a comparison of their characterization, measurement and technology to assist readers to deploy the optimum antenna system in terms of performance, cost and reliability
- ❖ The author has a wealth of experience and first hand knowledge of current design methods and manufacturing considerations currently unavailable in other books in this area

READERSHIP: Antenna designers, network planners, operators and installers, software engineers and other technical employees working in the communications industry. Students on communications systems courses

APR 2011 320PP 978-0-470-87058-7 CL £55.00 €66.00



Non-standard Antennas

FRANÇOIS LE CHEVALIER, DOMINIQUE LESSELIER & ROBERT STARAJ

Delft University of Technology, The Netherlands

- ❖ Describes the wide variety of new technologies and concepts of non-standard antenna systems reconfigurable, integrated, terahertz, deformable, ultra-wideband, using metamaterials, or MEMS, etc
- ❖ Shows how these open the way to a wide range of applications, from personal security and communications to multifunction radars and towed sonars, or satellite navigation systems, with space-time diversity on transmit and receive

READERSHIP: A reference book for designers in this lively scientific community linking antenna experts and signal processing engineers

MAY 2011 TBAPP 978-1-8482-1274-9 CL £130.00 €156.00

Small Antenna Handbook

ROBERT C. HANSEN & ROBERT E. COLLIN

Both of Case Western Reserve University, USA

- ❖ Completely revised, updated and enlarged
- ❖ Discusses antenna designs that work as well as those that have limitations
- ❖ Discusses work on improving bandwidth using spherical helix dipoles
- ❖ Discusses work on electromagnetically coupled structures
- ❖ The exact derivation of the Q for electrically small antennas for both the TE and TM modes
- ❖ A new simplified Q formula developed by the authors

READERSHIP: Practicing engineers in the telecommunications and national defense areas, upper level and graduate students, IEEE organizations: Antennas and Propagation Society, The Microwave Theory and Techniques Society, the Electromagnetic Compatibility Society; the Aerospace and Electronic Engineering Society. Principal journals: IEEE Antennas and Propagation Transactions, IEEE Antennas and Wireless Propagation Letters, IET Electronics Letter, IET microwaves, antennas, and propagation

OCT 2011 340PP 978-0-470-89083-7 CL £83.50 €100.20

Reconfigurable Antennas and Their Applications

CHRISTOS G. CHRISTODOULOU

University of New Mexico, USA

- ❖ Provides a logical evolution of topics useful to researchers in the fields.
- ❖ Examines machine learning techniques, such as neural networks and support vector machines, that can be used with modern Field Programmable Gate Arrays to control the activation of switches embedded in any reconfigurable antenna and help the antenna adapt as its environment changes.
- ❖ Presents applications in Cognitive radio, MIMO and satellite communications.
- ❖ Shows how "information theory" and reconfigurable antennas interact to accommodate any changes that may occur during the antenna's operation.

READERSHIP: Professional engineers working in communications, antennas, propagation; students, seniors and above, in electrical engineering; managers and system engineers in the telecommunications industries; telecom designers and managers of the military and NASA

SERIES: WILEY SERIES IN MICROWAVE AND OPTICAL ENGINEERING
AUG 2011 450PP 978-0-470-63343-4 CL £86.95 €104.40

Multi-Function Antennas for Microwave Wireless Systems

ENG HOCK LIM & KWOK WA LEUNG

Both of the University of Hong Kong, China

- ❖ Presents an up-to-date description of modern multi-function antenna systems and microwave components
- ❖ Examines circuit miniaturization techniques, such as the low-temperature-cofired-ceramic, system-on-package, and system in package
- ❖ Discusses design considerations of the frequency- and pattern-reconfigurable antennas.
- ❖ Case studies are provided for both planar and nonplanar antennas

READERSHIP: Professional engineers designing compact antennas for wireless applications

SERIES: WILEY SERIES IN MICROWAVE AND OPTICAL ENGINEERING
NOV 2011 250PP 978-0-470-40732-5 CL £66.95 €80.40

Dielectric Resonator Antennas for Wireless Systems

Design and Applications

TAYEB A. DENIDNI

University of Setif, Algeria

- ❖ Provides a practical and comprehensive introduction for engineers involved in the design of dielectric resonator antennas for wireless communication systems.
- ❖ Up-to-date techniques applied to dielectric resonator antenna design and implementation of dielectric resonator antennas and how to use these tools efficiently in applied industrial engineering.

READERSHIP: Antenna engineers, researchers and graduate students

SERIES: WILEY SERIES IN MICROWAVE AND OPTICAL ENGINEERING
DEC 2011 300PP 978-0-470-39847-0 CL £73.50 €88.20

Dielectric Resonator Antennas

Theory, Design, and Applications

A. KISHK

Cairo University, Egypt

- ❖ Based on short courses given by the author (an authority of this topic) for many years
- ❖ Discussion is kept on a simple level to be accessible to readers of various backgrounds and the theory of operation is examined step-by-step to provide basic understanding
- ❖ Addresses design methods (including problems related to practical implementation) as well as practical applications
- ❖ Different excitation mechanisms such as the probe, slot, image line and waveguides are considered.
- ❖ Design curves will be provided for the circular disc dielectric resonator.

READERSHIP: Members of the IEEE Antennas and Propagation Society, Microwave Theory and Technology, and URSI Commission B; graduates and designers of antennas for broadband applications such as cell phones and other communications devices

DEC 2011 350PP 978-0-470-28714-9 CL £83.50 €100.20



Electronic Transmission Systems - From Theory to Practice

ALEJANDRO ARAGON-ZAVALA, GERARDO CASTAÑÓN & JOSÉ RAMÓN RODRÍGUEZ-CRUZ

All of Tecnológico de Monterrey, USA

- ❖ Provides a practical approach using real communication engineering problems which involve various transmission systems
- ❖ Covers a wide range of topics, including transmission lines and waveguides, wireless transmission systems, and optical transmission systems
- ❖ Guided problem-based scenarios, which enable the reader understand and assimilate concepts much more easily
- ❖ Includes an accompanying website containing a solutions manual and a point of contact where readers can share their thoughts, experiences and solutions to other readers around the world

READERSHIP: Advanced level students studying electronic and communications engineering courses, communications engineers, integrators and communication system designers

DEC 2011 640PP 978-0-470-97390-5 CL £75.00 €90.00

M2M Communications

A Systems Approach

DAVID BOSWARTHICK, OLIVIER HERSENT & OMAR ELLOUMI

ETSI, France; NetCentrex, France; Alcatel-Lucent, France

- ❖ Provides the advanced reader with a practical and comprehensive understanding of this hot topic as a complete single source, which is not currently available on the market
- ❖ Covers key areas of the topic from both a standards and analysis perspective to allow readers to pursue their own independent analysis further
- ❖ A timely publication due to heavy EC and \$ governmental backing for M2M technologies such as RFID, and M2M enables applications such as Smart Meter and Smart Grids
- ❖ Includes important information for any engineer or business manager involved in the market of M2M
- ❖ Analyses important and well-known interdisciplinary areas such as e-Health, Smart Metering and connected cars

READERSHIP: Business development managers, telecoms engineers, software engineers, integrators, managers and technical managers having to deal with m2m, technical industry specialists approaching m2m, telecom students and teachers, research & development professionals, technical staff, business planners, professionals needing some understanding of the topic (e.g. in social sciences, journalists etc.)

DEC 2011 280PP 978-1-1199-9475-6 CL £60.00 €72.00

An Integrity System for ICT

Incorporating Ethics into Industry Practice

JOHN WECKERT & RICHARD LUCAS

Nanoethics, USA; Independent consultant, USA

- ❖ Outlines integrity systems and ethics infrastructures
- ❖ Provides integration models for project management, testing, risk management, analysis and design, user interaction, and quality assurance
- ❖ One of the first books of its kind, spelling out in detail a systematic method for incorporating ethics into the Information and Communications Technology industry
- ❖ Provides the reader with tables, diagrams, and case studies

READERSHIP: Undergraduate ICT students and professionals working in the industry

DEC 2011 220PP 978-0-470-54357-3 CL £73.50 €88.20

WiFi, WiMAX and Cellular Multihop Networks

HUNG-YU WEI, JAROQNIW RYKOWSKI & SUDHIR DIXIT

All of Nokia Research Center, USA

- ❖ Introduces the emerging WiFi-based multihop relay network and WiMAX-based multihop relay networks - promising wireless access technologies for the future of wireless networks
- ❖ Represents a good starting point for engineers and researchers who would like to start working on WiFi or WiMAX multihop relay networks
- ❖ Addresses applications for the emerging technology, as well as some important architectural issues
- ❖ Ranging from introductory material to advanced topics, the book discusses the latest advances in multihop and ad-hoc networking

READERSHIP: Researchers, practicing engineers, senior and graduate students

NOV 2011 350PP 978-0-470-48167-7 CL £83.50 €100.20



Multihop Wireless Networks

Opportunistic Routing

WENJING LOU, KAI ZENG & MING LI

All of Worcester Polytechnic Institute, USA

- ❖ Comprehensive treatment of opportunistic routing, an emerging technology designed to improve the network capacity and energy efficiency of multihop wireless networks
- ❖ Discusses the technological challenges lying behind this new technology, and covers a wide range of practical implementation issues
- ❖ Covers many fundamental research issues for this new concept, including the basic principles of opportunistic routing, performance limits and performance improvement, and compares them to traditional routing (e.g. energy efficiency and distributed opportunistic routing protocol design, broadcasting, and security issues)
- ❖ Covers technologies such as multi-rate, multi-channel, multi-radio wireless communications, energy detection, channel measurement, etc
- ❖ Includes an accompanying website containing simulation codes to carry out the simulation studies covered in the book

READERSHIP: Researchers working in the field of wireless networks and wireless communications, and wireless professionals, graduate students

SERIES: WIRELESS COMMUNICATIONS AND MOBILE COMPUTING

JUN 2011 320PP 978-0-470-66617-3 CL £74.50 €89.40



Pervasive Computing and Networking

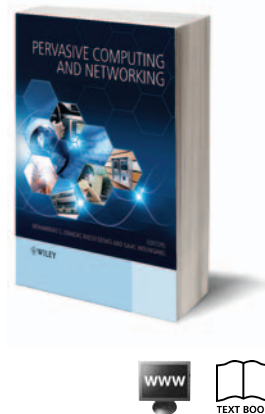
PROFESSOR MOHAMMAD S. OBAIDAT, MIESO DENKO & ISAAC WOUNGANG

Monmouth University; University of Guelph; Ryerson University

- ❖ Discusses existing and emerging communications and computing models, design architectures, mobile and pervasive wireless applications, technology and research challenges in pervasive computing systems, networking and communications
- ❖ Provides detailed discussions of key research challenges and open research issues in the field of autonomic computing and networking
- ❖ Offers information on existing experimental studies including case studies, implementation test-beds in industry and academia
- ❖ Includes an accompanying website including PowerPoint slides

READERSHIP: Researchers and academics in computer science and electrical engineering fields, practicing professionals and students in computer science and electrical engineering

JUL 2011 368PP 978-0-470-74772-8 CL £65.00 €78.00



IP, Ethernet and MPLS Networks

Resource and Fault Management

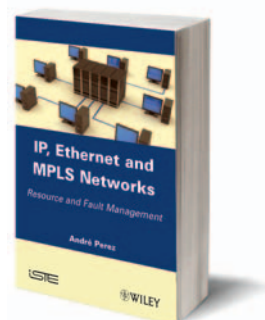
ANDRÉ PEREZ

Independent consultant

- ❖ Network operation quality is among the functions to be fulfilled in order to offer Quality of Service (QoS) to the end user.
- ❖ It is characterized by four parameters: packet loss, delay, jitter or the variation of delay over time, and availability
- ❖ Resource management employs mechanisms that enable the first three parameters to be guaranteed or optimized.
- ❖ Fault management aims to ensure continuity of service. This title summarizes the key QoS technologies deployed in telecommunications networks: Ethernet, IP, and MPLS

READERSHIP: Network planners, network engineers, communications engineers, ISPs and ASPs, engineering students

AUG 2011 TBAPP 978-1-8482-1285-5 CL £96.95 €116.40



Broadband Access

Wireline and Wireless Alternatives for Triple Play Services

STEVEN SCOTT GORSHE, DILIP KRISHNASWAMY, THOMAS STARR & STEFANO GALLI

PMC-Sierra, Inc; Qualcomm Research Center; AT&T Labs, Inc; Panasonic

- ❖ Covers both the technology that is currently being deployed by network providers and the technology that has recently been or will soon be standardized for deployment in the next 5 years
- ❖ Side-by-side comparison of the technologies allows competitive network providers to evaluate the alternatives
- ❖ Each of the individual chapters/sections will be of great value for use in training and education in companies developing or deploying broadband access equipment
- ❖ Broadband access networks are the focus of investment for telecommunications network providers and equipment manufacturers around the globe, and this trend is expected to continue for at least the coming decade

READERSHIP: People working in engineering development, network operators, network operations systems vendors, regulators, telecommunications consultants, sales, marketing, field applications, and product validation organizations

DEC 2011 320PP 978-0-470-74180-1 CL £60.00 €72.00

Automotive Inter-networking

TIMO KOSCH, MARKUS STRASSBERGER & MARC BECHLER

All of BMW Group Research and Technology, Germany

- ❖ Presents a comprehensive top-down approach to the newly evolving car-to-X communications networking
- ❖ Provides a broad overview of all relevant C2X communication topics
- ❖ Written by well known experts in the field
- ❖ Predicts the outlook of the evolvement of inter-vehicle communications in the next decades
- ❖ Includes illustrations and high-level technical sketches of application domains and photographs, 3D renderings and professional graphical sketches of current prototypes

READERSHIP: Engineers and technical professionals in the automotive industry, telecommunication industry and service providers as well as graduate students; managers and business professionals

SERIES: 7657

OCT 2011 448PP 978-0-470-74979-1 CL £65.00 €78.00

Advanced Wireless Communications and Internet

Future Evolving Technologies

3rd Edition

SAVO G. GLISIC

University of Oulu, Finland

- ❖ Illustrates points throughout using real-life case studies drawn from the author's extensive international experience in the field of telecommunications
- ❖ Fully updated to include the latest developments, key topics covered include: Advanced routing and network coding; Network stability control; Relay-assisted Wireless Networks; Multicommodity flow optimization problems, flow optimization in heterogeneous networks, and dynamic resource allocation in computing clouds
- ❖ Methodically guides readers through each topic from basic to advanced areas
- ❖ Focuses on system elements that provide adaptability and re-configurability, and discusses how these features can improve wireless communications system performance

READERSHIP: System engineers who need to understand current approaches and evolving directions for personal and indoor communications, the evolution of 3G and possible solutions for 4G land and satellite mobile radio communications, cellular networks, and wireless LAN, postgraduate students

APR 2011 952PP 978-0-470-71122-4 CL £115.00 €138.00

Wireless Communication Engineering Technologies

KUOK-SHOONG & DANIEL WONG

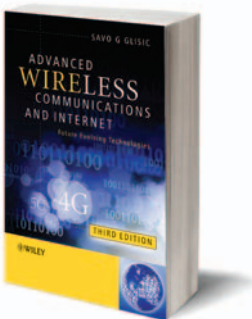
Palo Alto, USA

- ❖ Provides a fresh approach to the wireless field, ideal for wireless engineers with 3-5 years experience
- ❖ Useful for preparation for the WCET exam
- ❖ Author was involved with the IEEE WCET certification program development, providing readers with in-depth knowledge and insight on the exam
- ❖ Also useful to those not planning to take the exam as it describes a wide range of topics in the field

READERSHIP: People planning to take the WCET certification exam, and other engineers seeking to increase their knowledge of wireless communications engineering technologies without necessarily taking the exam, graduate students in wireless communications seeking to gain a broad exposure to realities of the industry (as opposed to their more academic experiences) and professors seeking to clue more industry-relevant materials in their courses

SERIES: INFORMATION AND COMMUNICATION TECHNOLOGY SERIES

DEC 2011 500PP 978-0-470-56544-5 CL £93.50 €112.20



Next-generation Wireless Broadband

BENNY BING

Georgia Institute of Technology, USA

- ❖ Discusses the emerging broadband wireless standards: 802.16m, 802.22, LTE
- ❖ Covers and compares wide range of topics rather than a specific broadband system
- ❖ Exercises at the end of chapter reinforce important concepts
- ❖ Slides and solutions manual will be available to instructors
- ❖ Recorded Tutorials can be access via IEEE educational activities and IEEE Comsoc Tutorials

READERSHIP: Industry professional and practitioners, graduate students studying wireless technologies and telecommunications, researchers

SERIES: INFORMATION AND COMMUNICATION TECHNOLOGY SERIES

DEC 2011 350PP 978-0-470-92354-2 CL £66.95 €80.40

Principles of Communications Networks and Systems

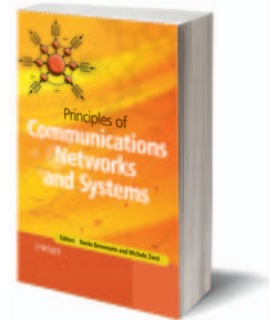
NEVIO BENVENUTO & MICHELE ZORZI

University of Padova, Italy

- ❖ Comprehensive treatment of the key theories and technologies associated with the design of modern communications networks.
- ❖ Provides models and analytical methods for evaluating the performance of communications networks and systems.
- ❖ One of the first books to jointly address network and transmission topics
- ❖ Features examples of advanced digital modulation systems such as CDMA and OFDM.
- ❖ Structured to reflect the modern way in which communications systems are designed
- ❖ Includes examples of existing and recent standard systems
- ❖ Provides problems at the ends of each chapter, with answers on an accompanying website

READERSHIP: Undergraduate and postgraduate students on electrical engineering, computer science and telecommunications courses; engineers working in design and research and development roles university lecturers, middle and senior managers in companies developing communications equipment

OCT 2011 784PP 978-0-470-74431-4 CL £64.50 €77.40



Connections for the Digital Age

Multimedia Communications for Mobile, Nomadic and Fixed Devices

BRYAN E. CARNE

University of London, UK

- ❖ Teaches on topics and technologies that are crucial to digital communication today
- ❖ Includes precise diagrams and tables to illustrate the evolving environment
- ❖ Explores technologies integration of multimedia
- ❖ Provides in depth facts and descriptions of past and current technologies in multimedia communication

READERSHIP: Digital natives (and other persons) with an interest in communications, a desire to have an overview of current developments in the field, and to learn of evolving implementations, members of technical societies, and students at technical schools and universities, industrial, commercial, and financial managers, engineers, sales persons, software professionals and internet specialists will benefit from an overview of the entire communications field

AUG 2011 304PP 978-1-1180-5416-1 CL £73.50 €88.20

Mobile and Wireless Communications for IMT-Advanced and Beyond

AFIF OSSEIRAN, JOSE F. MONSERRAT & WERNER MOHR

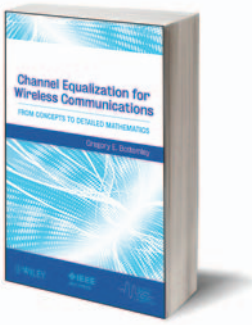
Ericsson Research; Polytechnique University of Valencia; NSN

- ❖ A definitive reference on the topic, this book is ideal for researchers, engineers and academics who work on IMT-A and beyond
- ❖ Describes the latest findings in promising areas such as Coordinated multi-point systems, network coding, relaying, peer-to-peer and spectrum sharing
- ❖ Gives particular attention to the influence of standardization bodies globally, and the links between them

READERSHIP: Academic domain (universities, R&D centers), researchers from industry, engineers at all levels, managements, strategy setters, decision makers, regulators, industry (research and development units, standardization units), researchers from both academia and R&D centers, practitioners on field concerning wireless technologies and investigate co-existence among them

SEP 2011 336PP 978-1-1199-9321-6 CL £86.95 €104.40





Channel Equalization

From Concepts to Detailed Mathematics

GREGORY E. BOTTOMLEY

North Carolina State University, USA

- ❖ Each channel equalization topic is presented with incremental learning methodology from the very fundamental concept to more advanced mathematical knowledge
- ❖ Typically used in Europe and very successful in their school system
- ❖ Homework problems are provided
- ❖ Useful as a reference book for practicing wireless engineers

READERSHIP: The communications and signal processing area of electrical engineering, practicing engineers in mobile/wireless communication system design, device design, uppler undergraduate / graduate students in wireless communications / digital signal processing

SERIES: IEEE SERIES ON DIGITAL & MOBILE COMMUNICATION

JUN 2011 288PP 978-0-470-87427-1 CL £83.50 €100.20

Efficient Resource Allocation in Uplink OFDMA Wireless Systems

Optimal Solutions and Practical Suboptimal Implementations

ZAHER DAWY & ELIAS YAACOUB

Both of the American University of Beirut, USA

- ❖ The major difference between this book and the existing literature is its dedication to uplink OFDMA, and its attempt to present coverage of a wide range of topics relevant to uplink scheduling in OFDMA networks.

READERSHIP: IEEE GlobeCom, ICC, WCNC, PIMRC, DySPAN, INFOCOM, VTC, telecommunications operators and vendors, service providers, consultants, standardization bodies, and research centers

SERIES: IEEE SERIES ON DIGITAL & MOBILE COMMUNICATION

DEC 2011 300PP 978-1-1180-7450-3 CL £66.95 €80.40

Non-Gaussian Statistical Communication Theory

DAVID MIDDLETON

West Midlands Probation Service, UK

- ❖ Late Dr. Middleton is known as a pioneer in the field of statistical communication theory. He was a charter member of the IEEE Information Theory Society.
- ❖ The theory is mainly applicable to sonar applications - underwater sensing, radar for commercial and defence applications.
- ❖ Dean of Princeton University, Electrical Engineering Department, Professor Vincent Poor, writes a foreword

READERSHIP: statistical communication theorists, physicists. Signal processing engineers. Scientists/physicists in wave propagation, electromagnetics, signal processing

SERIES: IEEE SERIES ON DIGITAL & MOBILE COMMUNICATION

DEC 2011 600PP 978-0-470-94847-7 CL £123.00 €147.60



Self-Organizing Networks

Self-Planning, Self-Optimization and Self-Healing for GSM, UMTS and LTE

JUAN RAMIRO & KHALID HAMIED

Optimi Corporation, Spain

- ❖ Describes both theoretical and practical techniques for the design, deployment, and operation of self-optimising networks (SON s) in 2G, 3G and 4G broadband wireless technologies such as GSM, HSPA and LTE
- ❖ Outlines the potential economic benefits (including return on investment) accrued by network operators from deploying such SON systems
- ❖ Discusses the relevant performance trade-offs for each technology, and the conclusions are leveraged in order to build a logical description of the SON functionalities that are required in each specific case

READERSHIP: Network planning engineers (network operators, related software companies); R&D engineers (manufacturers, software companies, operators); performance optimization engineers at operators and consultancy companies; technical/strategy managers at operators, consultancy companies and manufacturers, teaching staff at academic institutions, postgraduate students dealing with cellular networks

OCT 2011 288PP 978-0-470-97352-3 CL £70.00 €84.00

Wavelength Division Multiplexing

A Practical Engineering Guide

KLAUS GROBE & MICHAEL EISELT

Both of ADVA Optical Networking, Germany

- ❖ Considers WDM from ULH backbone (big picture view) down to PON access (micro view) Includes all major telecom and datacom applications
- ❖ Provides the relevant background for state-of-the-art and next-gen systems
- ❖ Offers practical guidelines for system / link engineering

READERSHIP: Engineers working in transport-related departments of network operators and in large enterprises who need a practical overview on WDM, students (from technical schools to universities), technicians who need an overview on actual and next-generation fiber-optic transport

SERIES: WILEY-OSA SERIES ON OPTICAL COMMUNICATION

AUG 2011 300PP 978-0-470-62302-2 CL £63.50 €76.20

Free Space Optical Networks for Ultra-Broad Band Services

STAMATIOS V & KARTALOPOULOS

University of Oklahoma, USA

- ❖ Fills a void in the literature of optical communication networks technology known as Free Space Optical Networks
- ❖ Provides comprehensive coverage in an easy to understand, and bottom-up progressive style that starts from the physics of the atmosphere, and continues with the design of a network node, and concludes with fiberless network applications
- ❖ Includes other relevant important topics such as security of FSO Networks

READERSHIP: Network communication professionals, optical communication engineers, senior level undergraduates, grad students, researchers, consultants

AUG 2011 240PP 978-0-470-64775-2 CL £66.95 €80.40

Tools for Signal Compression

Applications to Speech and Audio Coding

NICOLAS MOREAU

Technical University of Berlin, Germany

- ❖ Presents tools and algorithms required to compress/uncompress signals such as speech and music.
- ❖ These algorithms are largely used in mobile phones, DVD players, HDTV sets, etc In a first part, this book presents the standard tools used in compression systems: scalar and vector quantization, predictive quantization, transform quantization, entropy coding
- ❖ The second part explains how these tools are used in the latest speech and audio coders The final section gives Matlab programs simulating these coders

READERSHIP: Practising engineers and researchers, electrical and computer engineering graduates taking courses in signal processing or digital signal processing

MAY 2011 TBAPP 978-1-8482-1255-8 CL £96.95 €116.40



Digital Signal Processing Using MATLAB for Students and Researchers

JOHN LEIS

University of Southern Queensland, Australia

- ❖ Integrates use of the PC and MATLAB as an integrated learning tool
- ❖ Book includes Win-eLab software written by the author and available on the web
- ❖ Book includes traditionally taught mathematics areas
- ❖ Offers exercises, problems and MATLAB projects in signal processing
- ❖ Offers chapter on adaptive filters incorporating neural networks
- ❖ Treats Discrete Cosine Transform (DCT)

READERSHIP: The market for this book are university students in electrical and computer engineering, industry professionals, teachers/professors at universities

JUN 2011 396PP 978-0-470-88091-3 CL £63.50 €76.20



Acoustic Echo and Noise Control

Speech Enhancement
2nd Edition

EBERHARD HÄNSLER & GERHARD SCHMIDT

Temic Speech Processing, Germany

- ❖ The necessity of speech enhancement signals is increasing enormously, with devices such as hands-free telephones and voice-controlled systems in the mobile phone and automotive markets.
- ❖ The collection of applications in which speech enhancement is required is growing rapidly.
- ❖ Includes reliable algorithms which have been implemented in real systems and proven their functionality in various test scenarios.
- ❖ Includes new and improved applications, for public address systems, echo and noise control in voice-over-IP telephony, hearing aids, in-car communication systems, and video conferencing systems

READERSHIP: Electrical engineers, scientists, and researchers working in speech enhancement

SERIES: ADAPTIVE AND LEARNING SYSTEMS FOR SIGNAL PROCESSING, COMMUNICATIONS AND CONTROL SERIES
OCT 2011 600PP 978-0-470-52828-0 CL £100.00 €120.00

Architectures for Digital Signal Processing

2nd Edition

PETER PIRSCH & HOLGER BLUME

Leibniz University of Hannover, Germany

- ❖ Covers both the basic DSP architectures and the more specialized SIMD, VLIW and Superscalar architectures
- ❖ Illustrated throughout with examples using available DSP products
- ❖ Includes a new section on FPGAs, and significantly updated sections of programmable digital signal processors, used semiconductor technology parameters, and multiprocessor systems
- ❖ A new section on Design Space Exploration acknowledges the challenge of defining the correct mix of architecture blocks for a complex system or chip
- ❖ Brings together the fields of signal processing algorithm development and the design of final circuits

READERSHIP: Graduate students on electrical and computer engineering courses; practicing engineers and researchers across various fields involved in dealing with the design of digital signal processing architectures, advanced undergraduate courses in digital signal processing and mobile communications

NOV 2011 512PP 978-0-470-66544-2 CL £65.00 €78.00

3DTV - Processing and Transmission of 3D Video Signals

STEWART WORRALL & ANIL FERNANDO

University of Surrey, UK

- ❖ Provides a fundamental and systematic introduction and description of 3DTV key techniques, which build up the whole 3DTV system from capture to consumer viewing at the home.
- ❖ Addresses the quick moving field of 3D displays which is attracting increasing interest from industry and academia
- ❖ Concepts in the book will be illustrated using diagrams and example images of processed 3D content.
- ❖ The 3D content will be presented as 2D images in the book.
- ❖ Authors to host website providing pointers to more information on the web, freely available tools which would enable readers to experiment with coding video, simulate its transmission over networks, play it back in 3D, and measure the quality and links to important news and developments in the field.

READERSHIP: Academic researchers, postgraduate students in electrical and electronic engineering requiring an understanding of the whole 3DTV system, Engineers working in the consumer electronics industry, and those working for manufacturers of broadcast chain, senior undergraduate students in electrical and electronic engineering

DEC 2011 304PP 978-1-1199-9732-0 CL £65.00 €78.00

Antenna Theory and Design

3rd Edition

WARREN L. STUTZMAN & GARY A. THIELE

Virginia Polytechnic Institute and State University, USA; University of Dayton, USA

- ❖ Stutzman provides a pedagogical approach to Antenna Theory, with an emphasis on computational methods.
- ❖ Modern material on systems, low-profile elements, and base station antennas have been included to make the book more exciting to undergraduates and more relevant to practicing engineers.
- ❖ Greater detail has been added to important topics such as micro strip antennas and arrays.
- ❖ The measurements topic has been expanded to a full chapter.

READERSHIP: A text for senior undergraduate and graduate students studying an Antenna Theory course

DEC 2011 784PP 978-0-470-57664-9 CL £92.50 €110.40



TEXT BOOK

Six Sigma Quality Improvement with Minitab

2nd Edition

G. ROBIN HENDERSON

Halcro Consultancy, UK

- ❖ Reflects the latest release of Minitab software (version 16)
- ❖ Provides an introduction to statistical methods for Six Sigma and Quality Improvement using one of the most widely used statistical software packages, Minitab
- ❖ Informative follow-up exercises from a wide variety of scenarios are provided
- ❖ Random data generation facilities in Minitab are used to aid understanding of key statistical results and concepts
- ❖ Supported by a website featuring full data sets and extra computer code

READERSHIP: Primarily aimed at Six Sigma Green and Black Belts, from organisations that use Minitab, undergraduate or postgraduate level for academic courses incorporating Six Sigma or other approaches to quality improvement and also for courses on general statistical methods

AUG 2011 544PP 978-0-470-74174-0 PR £39.95 €48.00

Shifting the Earth

The Mathematical Quest to Understand the Motion of the Universe

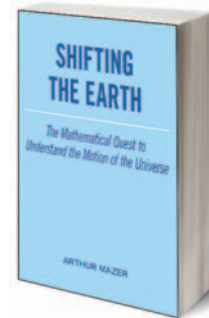
ARTHUR MAZER

Southern California Edison, USA

- ❖ Details the historical quest to understand the motion of the heavens and how this challenge changed and influenced the history of mathematics
- ❖ Discusses how religious, philosophical, and political institutions influenced the development of mathematics and in turn how mathematical development changed the institutions
- ❖ Addresses geometry, algebra, trigonometry, and calculus, however detailed understanding of the presented mathematics is not needed to follow the story of how it was used to track the solar system
- ❖ Features mathematical treatment of significant contributions to both the geocentric and heliocentric theories

READERSHIP: As a reference book for science and mathematics enthusiasts, i.e. mathematicians, engineers, software developers, actuaries, or for the mathematically inclined general population who are fascinated by mathematics; as a text or supplemental recommended reading for undergraduate mathematics, science, physics, philosophy

NOV 2011 352PP 978-1-1180-2427-0 PR £40.50 €48.60



Multiple Imputation and its Application

JAMES CARPENTER & MICHAEL KENWARD

London School of Hygiene and Tropical Medicine, UK

- ❖ Provides an introduction to general multiple imputation methods
- ❖ Discusses issues that arise with the use of MI in practical settings and recent developments
- ❖ Illustrated throughout with real examples taken from the authors vast experience
- ❖ A supplementary website hosts the relevant datasets and computer code

READERSHIP: Applied statisticians and researchers dealing with missing data problems in the medical and social sciences field. Also academics and graduate students working in missing data

SERIES: 6036

DEC 2011 320PP 978-0-470-74052-1 CL £45.00 €54.00



A Career in Statistics

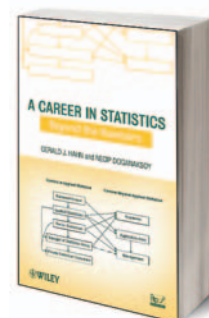
GERALD J. HAHN & NECIP DOGANAKSOY

General Electric Company, USA; Schenectady, USA

- ❖ The book is written by a "legend" (Hahn) in the field of industrial statistics.
- ❖ The content is based on a combined 75 years of work and academic experience.
- ❖ Chapters conclude with a summary of "major take-aways" and a series of discussion and/or technical questions to stimulate further thought and creativity
- ❖ The authors have asked various eminent statisticians with extensive experience in using statistics in business and industry for their views on what makes a successful applied statistician and what advice they would give aspiring statisticians planning or embarking on a career with a company
- ❖ An author web site is available that provides further detail on some topics, as well as post-publication thoughts and reader commentary.

READERSHIP: As supplemental reading in all courses in AP and/or university statistics, career planning, and consulting; as a main text for courses in statistical consulting; as a reference or self-study book for students who aspire to teach or to go into an industry that uses statistics or for public, academic, and corporate libraries

JUL 2011 352PP 978-0-470-40441-6 PR £46.95 €56.40



Statistical Methods for Censored Environmental Data Using Minitab and R

2nd Edition

DENNIS R. HELSEL

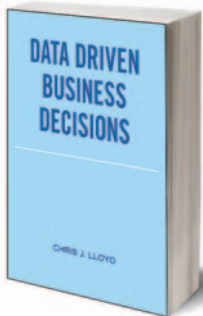
US Geological Survey, USA

- ❖ Solves a current dilemma that occurs across a wide spectrum of environmental science – how to correctly analyze and interpret censored data (data below detection limits).
- ❖ Three new chapters have been added, including Plotting Data with Nondetects (with a focus on incorporating methods appropriate for nondetects into mapping procedures), Multivariate Procedures (with a focus on methods to combine chemical and biological measures of environmental health), and Software for Data with Nondetects (with a focus on the software R and is co-authored by Lopaka Lee of the USGS).
- ❖ Many existing sections in the book have been expanded, and numerous new sections have been added, including a new section on testing censored data for normal distributions

READERSHIP: As a reference for environmental professionals including biologists and ecologists in government, consulting firms, and academia who focus on the water sciences, air quality, soil science, environmental chemistry, and environmental health; as a textbook for upper-undergraduate and graduate courses in statistics for the sciences and environmental statistics; academic and corporate libraries

SERIES: STATISTICS IN PRACTICE

NOV 2011 352PP 978-0-470-47988-9 CL £73.50 €88.20



Data Driven Business Decisions

CHRIS J. LLOYD

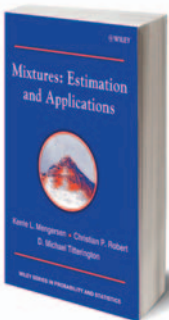
The University of Melbourne, Australia

- ❖ The book is grounded in a solid business context with an emphasis on data-driven decision making. It is focused on the “big” picture
- ❖ Analyses are summarized in simple and understandable English
- ❖ Examples and problems are structured in accessible mathematical and statistical form use of intuition is paramount
- ❖ Algebraic notation is incorporated only when necessary and/or useful
- ❖ Both the pros and cons of statistical methods are presented
- ❖ Painsstaking effort has been made to ensure the quality of the data.

READERSHIP: As a textbook for a beginning MBA/graduate level course in statistics; as a reference book for all practicing MBA's and libraries that service them

SERIES: STATISTICS IN PRACTICE

JUN 2011 528PP 978-0-470-61960-5 CL £83.50 €100.20



Mixture

Estimation and Applications

KERRIE MENSERSEN, CHRISTIAN ROBERT & MIKE TITTERINGTON

Queensland University of Technology, USA; Universite Paris 9 Dauphine, France; University of Glasgow, UK

- ❖ Provides a complete account of the applications and analysis of mixture estimation
- ❖ Explores parameter estimation in mixture models along with the EM (expectation maximization) Algorithm for maximum likelihood estimation
- ❖ Looks at the online algorithms used to process unlimited amounts of data as well as large dataset applications
- ❖ Compares the Wald methods and the likelihood methods in a finite mixture model
- ❖ Introduces mixture of expert modeling with social science applications as well as mixed membership models used for modeling group data
- ❖ Addresses exact Bayesian analysis of mixtures and manifold Markov Chain Monte Carlo for mixtures
- ❖ Features contributions from all of the leading experts in the field.

READERSHIP: Practitioners from statistics and biostatistics as well as researchers from a range of scientific disciplines, including, bioinformatics, computer science, ecology and finance

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

APR 2011 336PP 978-1-1199-9389-6 CL £60.00 €72.00

Latent Variable Models and Factor Analysis

A Unified Approach
3rd Edition

DAVID J. BARTHOLOMEW, MARTIN KNOTT & IRINI MOUSTAKI

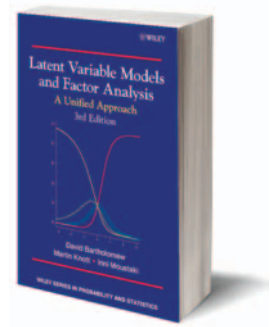
London School of Economics and Political Sciences, UK

- ❖ Includes new topics such as, covariate effects and non-linear terms, multiple population analysis and univariate and bivariate margins.
- ❖ Provides a new section on structural equation models (SEM) and Markov Chain Monte Carlo methods, along with illustrative examples.
- ❖ Looks at estimation methods, goodness-of-fit, non-linear models, covariates, longitudinal data and multilevel modeling along with updated examples throughout.
- ❖ Unifies many different streams of latent variable modeling and probability modeling.
- ❖ Written by leading experts in the field.

READERSHIP: Applied statisticians, psychometricians, medical statisticians, biostatisticians and economists, social science researchers

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

JUL 2011 280PP 978-0-470-97192-5 CL £55.00 €66.00



Empirical Model Building

Data, Models, and Reality
2nd Edition

JAMES R. THOMPSON

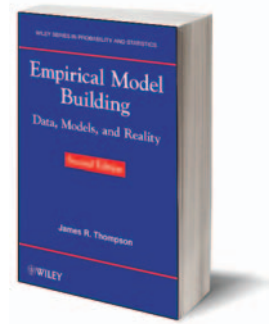
Rice University of Texas, USA

- ❖ First Edition users testify that the book is well written and expertly documented
- ❖ The reader is introduced to provocative pointers such as the relevance of graphs, the meaning of interpretation, Henry Ford's Code of Practice, and Deming's 14 points, among others.
- ❖ The development of mathematical models is viewed as necessary, natural, and relevant
- ❖ Coverage of investing practices and principles, resampling techniques, and momentum have been increased in an effort to further showcase their importance and expediency in the real-world.
- ❖ Over 300 exercises have been added to this edition so as to make the book more textbook oriented.
- ❖ The author often employs what/if scenarios to underscore the need for individual problem solving in a global world setting.

READERSHIP: Recommended for applied statisticians and instructors (especially those who teach quantitative modeling), graduate students, and undergraduate students, as well as academic and corporate libraries

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

SEP 2011 432PP 978-0-470-46703-9 CL £66.95 €80.40



Geostatistics

Modeling Spatial Uncertainty
2nd Edition

JEAN-PAUL CHILÈS

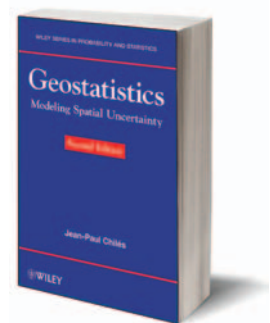
Ecole des Mines de Paris-Paris, France

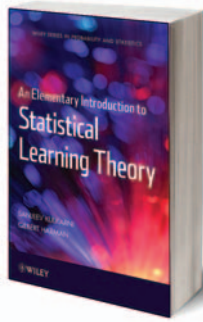
- ❖ This second edition of one of the best-selling books on geostatistics provides through updates from two authoritative authors with over twenty years of experience in the field.
- ❖ Models illustrated in the first edition are modernized, as they introduce applications to different fields of natural science, such as petroleum engineering.
- ❖ The intricate, but now dated, case studies of the first edition are replaced with modern examples, demonstrating the growth of 3D geostatistical modeling.
- ❖ The addition of newly developed geostatistical methods, such as gradual deformations and multi-point geostatistics, are explored.
- ❖ With the first edition considered the primary reference on geostatistics, the new edition promises to maintain the same thorough but comprehensible blend of theoretical background and statistical application.

READERSHIP: As a reference book for geostatisticians, physicists, and earth scientists in both industry and academia; as supplemental text in related courses at the Ph.D level

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

DEC 2011 680PP 978-0-470-18315-1 CL £93.50 €112.20





An Introduction to Elementary Statistical Learning Theory

SANJEEV KULKARNI & GILBERT HARMAN

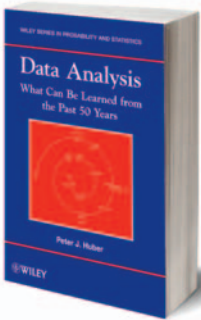
Princeton University, UK

- ❖ Serves as a fundamental introduction to statistical learning theory and its role in understanding human learning and inductive reasoning.
- ❖ Topics of coverage include: probability, pattern recognition, optimal Bayes decision rule, nearest neighbour rule, kernel rules, neural networks, and support vector machines.
- ❖ The authors present topics that cannot be found in other introductory level books on statistical learning theory, including PAC learning, VC dimension, and simplicity.
- ❖ Each chapter features an appendix that explores the relationship between the discussed material and relevant epistemological issues, drawing insightful connections between problems in philosophy and those that exist in statistical learning theory.

READERSHIP: As a book for introductory courses on statistical learning theory and machine learning at the upper-undergraduate and graduate levels; as a reference for researchers and practitioners in the fields of engineering, computer science, philosophy, and cognitive science; and academic libraries

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

JUN 2011 232PP 978-0-470-64183-5 CL £66.50 €79.80



Data Analysis

What Can Be Learned From the Past 50 Years

PETER J. HUBER

University of California-Berkeley, USA

- ❖ Covers all of the topics of present-day data analysis texts, but presents the material from both an historical and a philosophical point-of-view.
- ❖ Explores provocative issues on homogeneous, unstructured data (such as sampling); size of data; exclusivity of methods; and computing support (versus scripted languages), among a host of others.
- ❖ Utilizes personal case studies collected over the last 50 years to exemplify applications of helpful tools for the benefit of the education of new students.
- ❖ Outlines specific techniques to create order in data and describes a plausible path for dimension reduction through non-linear modeling.
- ❖ Includes extensive references for further study, contemplation, and elaboration.

READERSHIP: A supplement for an advanced upper-undergraduate or beginning graduate course in data analysis, robust statistics, data mining, statistical learning, or computational statistics; a reference for all applied statisticians (including biostatisticians, financial analysts, and social scientists)

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

APR 2011 234PP 978-1-1180-1064-8 CL £73.50 €88.20

Approximate Dynamic Programming

Solving the Curses of Dimensionality

2nd Edition

WARREN BUCKLER POWELL

Princeton University, UK

- ❖ Models complex, high-dimensional problems in a natural and practical way, which draws on years of industrial projects;
- ❖ Introduces and emphasizes the power of estimating a value function around the post-decision state, allowing solution algorithms to be broken down into three fundamental steps: classical simulation, classical optimization, and classical statistics;
- ❖ Presents a thorough discussion of recursive estimation, including fundamental theory and a number of issues that arise in the development of practical algorithms
- ❖ Offers a variety of methods for approximating dynamic programs that have appeared in previous literature, but that have never been presented in the coherent format of a book
- ❖ Now includes new material on optimization, programming with uncertain parameters, stepsizes, continuous states, and applications in finance, energy, and health
- ❖ Supplies exercises, solutions, datasets, and errata on a related Web site.

READERSHIP: The clear and precise presentation of the material makes this an appropriate text for advanced undergraduate and beginning graduate courses, while also serving as a reference for researchers and practitioners

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

AUG 2011 576PP 978-0-470-60445-8 CL £83.50 €100.20

Analysis of Covariance and Alternatives

2nd Edition

BRADLEY HUITEMA

Western Michigan University, USA

- ❖ Detailed descriptions of assumptions, the consequences of violating assumptions, and alternative procedures to follow are explained throughout the book.
- ❖ Easily understood descriptions of complex analyses such as multiple covariate analysis, multivariate ANCOVA, rank ANCOVA, the Johnson-Neyman procedure, and nonlinear ANCOVA, among many others
- ❖ There is a complete selection of Bonferroni F tables and other previously unpublished tables included at the rear of the book.
- ❖ Chapter recommendations, summaries, and software discussions have been added to the new edition.

READERSHIP: Behavioral and medical science graduate students and researchers, a supplemental text to courses in design of experiments and regression or an authoritative reference work for research workers in the fields of engineering, clinical trials, epidemiology, sociology, and public health

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

AUG 2011 480PP 978-0-471-74896-0 CL £70.50 €84.60

Applied Longitudinal Analysis

2nd Edition

GARRETT M. FITZMAURICE, NAN M. LAIRD & JAMES H

Harvard University, Cambridge, USA

- ❖ The book has been written at a technical level that is suitable for researchers who have taken an introductory course in statistics and who have a solid foundation in linear regression.
- ❖ Additional problem sets at provided at the end of each chapter to enhance the usefulness of the book as a text for courses on longitudinal data analysis.
- ❖ This bestselling book has been widely adopted as a textbook for numerous courses in universities throughout the us and abroad, and new and revised exercises and homework problems are included at the end of every chapter
- ❖ Written by well-known and respected professionals in the field, this book provides a rigorous and systematic description of modern methods for longitudinal analysis that is accessible to a broad audience of researchers and graduate students in the health and medical sciences.

READERSHIP: As a resource/reference book for researchers and professionals in medicine, public health, and pharmaceutical fields who desire coverage of modern statistical methods for analyzing longitudinal data; as a textbook for graduate students (especially Schools of Public Health); and university and corporate libraries

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

SEP 2011 736PP 978-0-470-38027-7 CL £73.50 €88.20

Statistics for Imaging, Optics, and Photonics

PETER BAJORSKI

Rochester Institute of Technology, USA

- ❖ Brief introductions to key probabilistic terms are provided at the beginning of the book in order to present the notation used as well as to give a general review for readers already familiar with those concepts.
- ❖ This book uniquely covers multivariate methods with a focus on statistical inference as opposed to most related books that address statistical optics only.
- ❖ All of the examples are relatively simple and include background explanations in order to ensure wide accessibility to the full spectrum of people working in imaging, optics, and photonics with varied backgrounds.
- ❖ Data sets used in examples and problems are available via the book's related website.
- ❖ Problem sets serve as exercises for readers who would like to check their understanding of the presented material.

READERSHIP: As a reference for professionals working in imaging, optics, and photonics; as a textbook for advanced undergraduate and graduate-level courses in multivariate statistics for imaging science, optics, and photonics; as a supplementary resource in any of the above mentioned courses; as a text for professional short courses

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

DEC 2011 384PP 978-0-470-50945-6 CL £66.95 €80.40

Question Evaluation Methods

JENNIFER MADANS, KRISTEN MILLE, AARON MAITLAND & GORDON WILLIS

NCHS, UK

- ❖ More than twenty notable survey methodology researchers from around the world have gathered to contribute valuable insight on the role of question evaluation methods in improving data quality
- ❖ An interdisciplinary, cross-method analysis is supplied, incorporating popular survey techniques including cognitive interviewing, split sample experiments, field-based assessments, and behavior coding.
- ❖ The book's broad scope of content and varying perspectives enforce important themes that all researchers must consider when working with question evaluation, such as implicit assumptions and limitations; benefits and advantages; and characterization of error.
- ❖ The book supplies special focus on the specific role of response error in total survey error, a topic that is not given much coverage in the current survey literature.
- ❖ Modeled about the workshop on which they are based, the book's chapters each supply the background of a pretesting method from one perspective and are then followed by discussion of related issues and alternative points of views.

READERSHIP: As a reference for government statisticians, survey methodologists, and researchers and practitioners who carry out survey research across various disciplines including sociology, psychology, anthropology, and the health sciences; as a supplement to graduate level courses in survey research, and question evaluation; academic and corporate librarians

SERIES: WILEY SERIES IN SURVEY METHODOLOGY
 JUL 2011 368PP 978-0-470-76948-5 PR £53.50 €64.20

Causality

Statistical Perspectives and Applications

CARLO BERZUINI, PHILIP DAWID & LUISA BERNARDINELL

Institute of Public Health, UK

- ❖ Presents a non-technical account of the major current languages, concepts and models in statistical causality
- ❖ Examples used throughout from medicine, biology, economics to political science aid the readers understanding
- ❖ Discusses ways to implement causal inference tools using R, STATA and SASA collection of work, written by experts in their field

READERSHIP: Postgraduates, professional statisticians and researchers in academia and industry, students and researchers

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS
 DEC 2011 640PP 978-0-470-66556-5 CL £60.00 €72.00

The Essentials of Biostatistics for Physicians, Nurses, and Clinicians

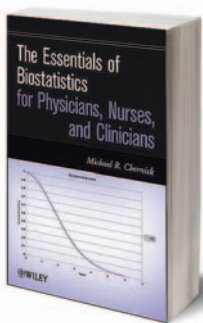
MICHAEL R. CHERNICK

Lankenau Institute for Medical Research, USA

- ❖ Each chapter presents statistical concepts in a concise, straightforward, and applications-driven style that fits the needs of the everyday medical practitioner.
- ❖ The book covers areas of statistics that are found in modern medical research, but that are often not taught in traditional statistics courses, including repeated measures analysis of variance, hazard ratios, contingency tables, log rank tests, bioequivalence, cross-over designs, and selection bias and group sequential methods
- ❖ The author draws from his own experience teaching biostatistics courses for nurses and practitioners, ensuring that the material is presented in a comprehensible and accessible format

READERSHIP: As a supplement for courses on biostatistics in the health sciences at the upper-undergraduate and graduate levels; as a resource for clinicians, nurses, and physicians as well as researchers in the fields of medicine, public health, and biostatistics; and academic libraries

AUG 2011 208PP 978-0-470-64185-9 PR £73.50 €88.20



Mathematical Finance

M. J. ALHABEED

University of Massachusetts, USA

- ❖ The book has been extensively class-tested and used by the author for over a decade.
- ❖ There are over 400 examples and exercises that are used to elaborate on and further reinforce the key concepts in the book.
- ❖ They are constructed from real-life situations
- ❖ Practicality is emphasized over complexity, but the required mathematical underpinnings of the selected content are not abandoned
- ❖ The book is written in direct, simple language and presented in a user-friendly style so as to make the mathematical material less threatening and more reassuring
- ❖ The author has extensive experience in drafting illustrations, which are lavishly displayed throughout the book.

READERSHIP: As a textbook for courses at the undergraduate level in mathematics of finance and/or consumer mathematics; as a reference book for consumers and/or business entrepreneurs who require insight into the mathematics behind everyday financial problems

OCT 2011 416PP 978-0-470-64184-2 CL £66.95 €80.40



Making Sense of Data III

A Practical Guide to Designing Systems that use Interactive Graphics to Explore and Mine Data

GLENN J. MYATT & WAYNE P. JOHNSON

Leadscope, Inc., USA

- ❖ Integrates three important areas that are required to build systems that tightly integrate visualization with data exploration and mining: interaction and software design principles, concepts, and architectural details; the details for implementing descriptive and predictive data mining; and an understanding of how practitioners would use the system to analyze and explore datasets
- ❖ Provides a hands-on experience for software developers or business analysts who have little statistical background or for research statisticians interested in exploiting graphical grammars for data exploration and mining
- ❖ Focuses on the tasks of data exploration and mining and what would be required by a software team to design a system that supports these tasks through interactive graphics

READERSHIP: As a reference for computational statisticians, software engineers, and researchers and professionals of any discipline who are interested in approaches to visualization and user interfaces in statistics and data mining

SEP 2011 384PP 978-0-470-53649-0 PR £60.50 €72.60



Learning From Complex Datasets

GEOFFREY J. MCLACHLAN

The University of Queensland, Australia

- ❖ Emphasis is on effective choices of methods.
- ❖ Bias in data collection is dissected and explained in detail and as it relates to accurate interpretation.
- ❖ Focus is on solutions of classification problems that involve the methods of discriminant analysis (or supervised learning) and clustering (or unsupervised learning).
- ❖ Other topics, not typically found in books of this type, include: missing data, mislabeled data, robust estimation, and the use and evaluation of covariates, among others.
- ❖ R code is used throughout the book.

READERSHIP: As a textbook in data mining at the upper-undergraduate and beginning graduate levels in departments of statistics, computer science, information technology, business, and bioinformatics; as a supplemental text for similar courses in machine learning

SERIES: WILEY SERIES IN COMPUTATIONAL STATISTICS

DEC 2011 416PP 978-0-470-40442-3 CL £76.95 €92.40

Classification Methodology for Symbolic Data

LYNNE BILLARD & EDWIN DIDAY

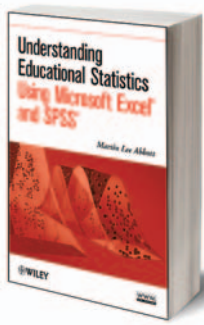
University of Georgia, USA; Universite de Paris IX, France

- ❖ Provides new classification methodologies for histogram valued data reaching across many fields in data science
- ❖ Demonstrates how to manage a large complex dataset into manageable datasets ready for analysis. Features very large contemporary datasets such as time series, interval-valued data and histogram-valued data
- ❖ Considers classification models such as dynamical clustering, an extension of K-means, hierarchical pyramidal and Kohonen methodology in detail
- ❖ Includes principal components and correspondence analysis methodology.

READERSHIP: Postgraduate students of, and researchers within, web mining, text mining and bio-engineering, Practitioners of symbolic data analysis-ie, statisticians and economists within the public (e.g. national statistics institutes) and private (eg banks, insurance companies, companies managing databases) sectors

SERIES: WILEY SERIES IN COMPUTATIONAL STATISTICS

OCT 2011 288PP 978-0-470-71393-8 CL £60.00 €72.00



Understanding Educational Statistics Using Microsoft Excel® and SPSS®

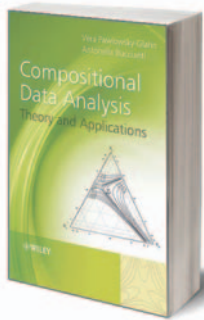
MARTIN LEE ABBOTT

Seattle Pacific University, USA

- ❖ The author employs his own class-tested material throughout the book, ensuring that all methodologies and examples are presented in an accessible manner.
- ❖ Each chapter utilizes real-world examples and data from modern educational research to illustrate discussed statistical procedures and concepts.
- ❖ All problems, examples, and data are worked with using both Excel and SPSS, highlighting the similarities and differences between the two procedures.
- ❖ The book unveils the intricate statistical capabilities of Microsoft Excel, one of the most readily-accessible software programs available, for readers who are just beginning to embark on their quantitative studies in the social sciences.
- ❖ A related Web site features additional data sets, labs, and SPSS code.

READERSHIP: As a primary book for courses on introductory statistics in the social sciences at the upper-undergraduate level; as a supplemental book for graduate-level courses on educational research methods; as a resource for practitioners in the fields of education, psychology, social work, and sociology who require a statistical background to work with research data

AUG 2011 576PP 978-0-470-88945-9 CL £73.50 €88.20



Compositional Data Analysis

Theory and Applications

VERA PAWLOWSKY-GLAHN & ANTONELLA BUCCIANTI

University of Girona, Spain; University of Florence, Italy

- ❖ Provides the state-of-the-art text in compositional data analysis
- ❖ Covers a variety of subject areas, from geology to medicine
- ❖ Written by leading researchers in the field
- ❖ Is supported by a website featuring R code

READERSHIP: Applied scientists working on compositional data analysis in any field of science, both in academia and professionals, undergraduate and graduate students in any field of science working with compositional data analysis

SEP 2011 400PP 978-0-470-71135-4 CL £65.00 €78.00

Discovering Knowledge in Data

An Introduction to Data Mining

2nd Edition

DANIEL T. LAROSE

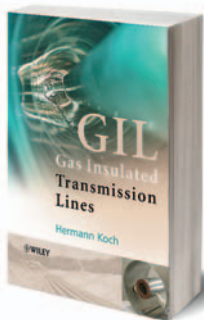
Connecticut State University, USA

- ❖ Multivariate statistical analysis, covering analysis of variance and chi-square procedures
- ❖ Cost-benefit analyses
- ❖ Time-series data analysis
- ❖ Extensive coverage of the R statistical programming language

READERSHIP: Graduate and advanced undergraduate students of computer science and statistics, students enrolled in MBA programs, managers/CEOs/CFOs, marketing executives, market researchers and analysts, sales analysts, medical professionals

SERIES: WILEY SERIES ON METHODS AND APPLICATIONS IN DATA MINING

AUG 2011 250PP 978-0-470-90874-7 CL £60.50 €72.60



Gas Insulated Transmission Lines- GIL

HERMANN KOCH

Siemens, Germany

- ❖ Provides power engineers with the correct information to write design and installation specifications, and demonstrates the power system implications of GIL
- ❖ Highly unique- no other reference covers GIL, although the applications of GIL are increasing
- ❖ Author is renowned in the GIL industry

READERSHIP: Utility power engineers and consulting engineers worldwide, manufacturers worldwide

OCT 2011 416PP 978-0-470-66533-6 CL £75.00 €90.00

Six Sigma Quality Improvement with Minitab

2nd Edition

G. ROBIN HENDERSON

Halcro Consultancy, UK

- ❖ Reflects the latest release of Minitab software (version 16)
- ❖ Provides an introduction to statistical methods for Six Sigma and Quality Improvement using one of the most widely used statistical software packages, Minitab
- ❖ Informative follow-up exercises from a wide variety of scenarios are provided
- ❖ Random data generation facilities in Minitab are used to aid understanding of key statistical results and concepts
- ❖ Supported by a website featuring full data sets and extra computer code

READERSHIP: Primarily aimed at Six Sigma Green and Black Belts, from organisations that use Minitab, undergraduate or postgraduate level for academic courses incorporating Six Sigma or other approaches to quality improvement and also for courses on general statistical methods

AUG 2011 544PP 978-0-470-74175-7 CL £70.00 €84.00



Optimal Design of Experiments

A Case Study Approach

PETER GOOS & BRADLEY JONES

JMP Division of SAS, USA; University of Antwerp and Erasmus

- ❖ Uses a computer-aided approach in modelling
- ❖ A well known and widely used software (JMP) complements the book
- ❖ Computer simulation can deal with experiments not practically possible
- ❖ Meets the needs of practicing statisticians with a modern method
- ❖ Focuses on optimal DOE rather than application of standard design
- ❖ An innovative case-studies approach explains optimal DOE from concept to analysis

READERSHIP: Researchers and industrial statisticians involved in DOE, undergraduates studying statistics, engineering and mathematics

JUL 2011 296PP 978-0-470-74461-1 CL £60.00 €72.00



Graph Partitioning

Charles-Edmond Bichot & Patrick Siarry

Institution Ecole Centrale de Lyon, France; University Paris-Est Créteil, France

- ❖ Graph partitioning is a theoretical subject with applications in many areas, principally: numerical analysis, programs mapping onto parallel architectures, image segmentation, VLSI design.
- ❖ During the last 40 years, the literature has strongly increased and big improvements have been made.
- ❖ Brings together the knowledge accumulated during many years to extract both theoretical foundations of graph partitioning and its main applications.

READERSHIP: Engineers, graduate students and researchers

MAY 2011 320PP 978-1-8482-1233-6 CL £83.50 €100.20

Principles of Linear Algebra with Mathematica (R)

KENNETH M. SHISKOWSKI & KARL FRINKLE

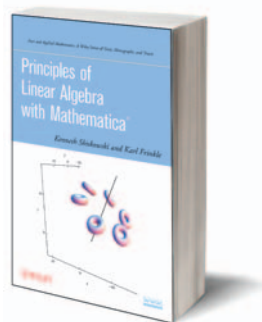
Eastern Michigan University, USA; Southeastern Oklahoma State University, USA

- ❖ All Mathematica® commands used to solve and explain the book's theories and examples are provided both in the book and on a related Web site, allowing readers to modify these commands on their own to help solve their own problems.
- ❖ The book's material has been extensively class-tested, ensuring a readable presentation that explores each topic in an insightful way, rather than just outlining topics in a theory-proof-problem format.
- ❖ Along with introductory topics, advanced topics, such as the effect of linear transformations on arclength, area and volume, are also treated.
- ❖ The authors supply a fluid and easy-to-follow treatment of key topics often found in a first course in linear algebra, including linear systems of equations, matrices, vectors and transformations.

READERSHIP: As a text for courses on linear algebra at the undergraduate level; as a reference for students and professionals looking to use Mathematica (R) to solve problems relating to linear algebra; and academic libraries

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

JUL 2011 608PP 978-0-470-63795-1 CL £73.50 €88.20



The Language of Mathematics

Utilizing Math in Practice

ROBERT L. BABER

McMaster University, Canada

- ❖ Details how various types of values, variables, functions, and expressions in the language of mathematics correspond to a particular part of speech or grammatical component
- ❖ Facilitates communication between people with different areas of expertise working on specific problems to which mathematics is applied by viewing mathematics, mathematical models, and mathematical expressions from a language standpoint
- ❖ Improves and increases a reader's insight into mathematics as well as how to utilize it in practice
- ❖ Presents a new and unique way of looking at mathematics and discusses the specialized language that mathematicians have developed for communicating among themselves, for recoding the results of their work, and perhaps, most importantly, for reasoning and conducting the various analyses involved in their investigations

READERSHIP: Intended for the mathematically inclined general population with a background consisting of the fundamentals of high school mathematics as well as for those who are curious about the linguistic nature and aspects of mathematical notation; as a text or supplement for engineers, technicians, managers, and consultants

AUG 2011 352PP 978-0-470-87889-7 CL £66.95 €80.40

An Introduction to Mathematical Modeling

A Course in Mechanics

J. TINSLEY ODEN

University of Texas, USA

- ❖ Provides a modern approach to mathematical modeling by including applications from the field of mechanics not found in any other book
- ❖ Classtested over the past several years and uniquely combines examples from electromagnetics, quantum mechanics, molecular dynamics, and statistical mechanics
- ❖ Illustrates how the most successful models in use today arose from basic principles and modern and classical mathematics
- ❖ Written for an introductory mathematical modeling course for students with diverse backgrounds in science, mathematics, and engineering

READERSHIP: As a course book for upper-undergraduate and graduate courses in mathematical modeling and/or statistical mechanics and is appropriate for students majoring in mathematics, computer science, physics, engineering, and chemistry; as a refresher and resource for professionals in areas including modeling and simulation, physics, and engineering; and academic libraries

SEP 2011 352PP 978-1-1180-1903-0 CL £76.95 €92.40

Scheduling in Supply Chains using Mixed Integer Programming

TADEUSZ SAWIK

AGH University, Poland

- ❖ Focuses on state-of-the-art MIP modeling and solution approaches including exact optimal or near optimal solutions, which are rarely found when commonly used heuristic algorithms are applied
- ❖ Provides insight and tools to modeling and solving supply chain scheduling problems using commercially available MIP software (Excel Solver, CPLEX, etc.), which makes the decision making independent of custom made scheduling software
- ❖ Demonstrates that MIP, which is widely used for long- and medium-term planning, can be efficiently used for short-term scheduling and integrated short- and medium-term decision making in customer driven supply chains
- ❖ Features the integration of short- to medium-term allocation of tasks and resources in a make-to-order environment using MIP modeling and solution approaches

READERSHIP: As a resource and reference for practitioners and researchers in the field of supply chain planning, scheduling, and management; as a graduate and PhD level coursebook on supply chains for students majoring in management science, industrial engineering, operations research, applied mathematics, and computer science; and academic and corporate libraries

JUN 2011 496PP 978-0-470-93573-6 CL £83.50 €100.20

Mathematical Statistics with Resampling and R

LAURA M. CHIHARA & TIM C. HESTERBERG

Google, UK; Carleton College, UK

- ❖ The book is written by computer-savvy authors who are experienced with R as the computer-language-of-choice.
- ❖ The book has been class tested for over three years.
- ❖ There are plentiful exercises, case studies, figures, real data, and parenthetical remarks so as to motivate novice learners.
- ❖ Resampling is a theme that is emphasized throughout; this separates the book from the plethora of competition.
- ❖ An 8-page 4-color insert is included to underscore the significance of color in the data interpretation process.

READERSHIP: As a textbook for a second-level statistics course on inferential statistics typically taught at the upper-undergraduate and beginning graduate levels; as a supplement book for a two-semester mathematical statistics course; as a reference work for applied statisticians who need a refresher on the subject matter

AUG 2011 454PP 978-1-1180-2985-5 CL £86.95 €104.40

Fundamentals of Supply Chain Theory

LAWRENCE V. SNYDER & ZUO-JUN MAX SHEN

Lehigh University, USA; University of California, USA

- ❖ Written by two strong researchers in the field of supply chain management and covers a broad range of topics in facility location, inventory, and supply chain coordination
- ❖ Focuses on seminal and cutting-edge mathematical models for supply chain management as well as models that are currently emerging from the research frontier
- ❖ Contains in-depth homework problems following each chapter and provides solutions to homework problems
- ❖ Thoroughly classroom tested and features unified notation, terminology, and expository style throughout
- ❖ Utilizes the companion freeware package BaseStockSim in many of the homework problems. The software was written by Dr. Snyder and is available via the book's related Web site.

READERSHIP: As a reference and or self-study for academics and practitioners in applied mathematics, operations research, business/management science, and industrial engineering; as a textbook for graduate-level courses in supply chain management in engineering and business schools; and academic and corporate libraries

SEP 2011 352PP 978-0-470-52130-4 CL £73.50 €88.20

Handbook of Integrated Risk Management in Global Supply Chains

PANOS KOUVELIS, LINGXIU DONG, ONUR BOYABATLI & RONG LI

Washington University, USA; Singapore Management University, Singapore

- ❖ Provides a collection of original ideas on integrated risk management in operations and global supply chain to help academics and practitioners develop a multifunctional perspective on these issues
- ❖ Offers managerial insights from leading authorities and outlines challenges in identifying, measuring, and controlling risks in practice
- ❖ Raises important unanswered questions in an effort to set the agenda for future research that fully reflects the interdisciplinary nature of the risk measurement and control challenges in operations and global supply chains
- ❖ Addresses current state-of-the-art managerial challenges and highlights the latest innovation practices while outlining a research agenda for the future
- ❖ Discusses the current challenges in practice from a managerial and business research perspective and includes coverage including potential sources of risk to risk-control practices in supply chain and operational decisions

READERSHIP: As a reference and/or refresher for academics and practitioners in finance, applied mathematics, operations research, business/management science, and industrial engineering; as a textbook for graduate-level courses in supply chain management in engineering and business schools; and academic and corporate libraries

SERIES: WILEY HANDBOOKS IN OPERATIONS RESEARCH AND MANAGEMENT SCIENCE
 NOV 2011 576PP 978-0-470-53512-7 CL £100.00 €120.00

Fundamentals of Stochastic Networks

OLIVER C. IBE

University of Massachusetts, USA

- ❖ Addresses queueing networks as well as a broader array of networks whose behavior is random or stochastic in nature
- ❖ Provides an interdisciplinary approach involving communication systems, manufacturing systems, biological systems, social networks, and artificial intelligence
- ❖ Includes science and engineering applications, many practical examples that include the related mathematical details, and numerous solved examples
- ❖ Presents basic concepts in probability; an overview of stochastic processes; elements of queueing theory and graph theory; approximations of queueing networks; and introductions to probabilistic, boolean, Bayesian, and random networks
- ❖ Combines techniques from stochastic processes and graph theory to analyze the behavior of networks

READERSHIP: As a reference for researchers and network professionals in need of the general principles of stochastic networks; as an upper-undergraduate and graduate level coursebook for courses in probability and stochastic networks, stochastic network calculus, stochastic network optimization, and stochastic models for students majoring in mathematics, operations research, finance, economics, or engineering; and academic and corporate libraries

AUG 2011 416PP 978-1-1180-6567-9 CL £83.50 €100.20

Real Analysis

A Historical Approach
2nd Edition

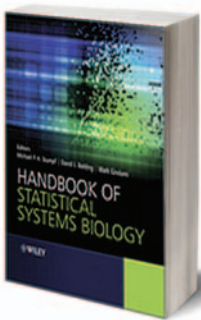
SAUL STAHL

University of Kansas, USA

- ❖ Based on user feedback, features a new chapter on the Riemann integral including the subject of uniform continuity
- ❖ Includes new coverage of epsilon-delta convergence as well as a discussion on the modern preference for convergence of sequences over convergence of series
- ❖ Begins with a sampling of classic and famous problems first posed by the founders of mathematics in an effort to illuminate the utility of infinite, power, and trigonometric series
- ❖ Details the basic tools of advanced calculus and also presents examples to reinforce concepts and demonstrate the validity of many of the historical methods and results
- ❖ Presents a cross section of the huge variety of interesting mathematical phenomena that analysts have discovered and researched over the centuries

READERSHIP: As an undergraduate-level course book for real analysis and mathematical analysis courses for mathematics majors; also appropriate as a text for secondary education majors; as a refresher for current secondary mathematics teachers; and academic libraries

JUL 2011 320PP 978-0-470-87890-3 CL £80.50 €96.60



Handbook of Statistical Systems Biology

MICHAEL STUMPF, DAVID J. BALDING & MARK GIROLAMI

All of Imperial College London, UK

- ❖ Introduces statistical methods for complex systems and Bayesian methodology for systems biology
- ❖ Covers networks and graphical modeling as well as a wide range of
- ❖ Statistical models and Dynamical systems
- ❖ Discusses various applications for statistical systems biology, such as
- ❖ Gene regulation, and pharmacodynamics
- ❖ Packed with colour to help illustrate key concepts and accompanied by a multimedia website with 3D visualisations

READERSHIP: Academics and researchers in the field of systems biology, pharmaceutical and biotechnology researchers working in industry, advanced level students of systems biology and bioinformatics

OCT 2011 600PP 978-0-470-71086-9 CL £120.00 €144.00

Methods and Applications of Statistics in the Social and Behavioral Sciences

N. BALAKRISHNAN, CAMPBELL B. READ, BRANI VIDAKOVIC, SAMUEL KOTZ &

NORMAN L. JOHNSON

McMaster University, Hamilton, Canada; Southern Methodist University, USA; Georgia Institute of Technology, USA; Temple University, USA; University of North Carolina, USA

- ❖ Employs the breadth of coverage from the Encyclopedia of Statistical Sciences, Second Edition (ESS2e) to present a specific focus on the application of statistical methods to research data in the social and behavioral sciences.
- ❖ Recognized literature is combined with modern research, as the volume features both established ESS 2e articles and newly-acquired contributions from over 100 leading experts in academia and industry
- ❖ Between 30-50 statistical topics and applications are covered and presented in a clear, accessible style at a reasonable price
- ❖ The presented contributions delve into quantitative methods, their application to research, and, where applicable, modern and cutting-edge approaches to the social and behavioral sciences
- ❖ Provides a realistic alternative to the individual user who would like a quick, concise reference containing encyclopedic information that pertains to their specific research interests and needs.

READERSHIP: Suitable for students, academics, and researchers in the fields of economics, sociology, psychology, philosophy, demography, education, and political science who would like to become more familiar with the uses of statistics in gathering, reporting, and analyzing data

NOV 2011 608PP 978-0-470-40507-9 CL £130.00 €156.00

College Algebra

3rd Edition

CYNTHIA Y. YOUNG

University of Central Florida, USA

- ❖ Focuses on revisions and additions, including hundreds of new exercises, more opportunities to use technology, and themed modelling projects that help connect content to real-world issues
- ❖ Builds upon the previous two editions with more in-depth and enhanced coverage on ways to help overcome common learning barriers in algebra and build confidence for readers
- ❖ Features truly unique, strong pedagogy and as with the previous two issues, is written in a clear and logical manner

READERSHIP: Mathematics students

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Algebra and Trigonometry

SHELDON AXLER

Princeton University, USA

- ❖ Offers a streamlined approach accompanied with accessible definitions across all chapters to allow for an easy-to-understand read
- ❖ Will appeal to those who want to give important topics more in-depth, higher-level coverage
- ❖ Features prose that is precise, accurate, and easy to read, with straightforward definitions of even those topics that are typically the most difficult for readers

READERSHIP: Mathematics students

JUN 2011 784PP 978-0-470-58579-5 CL £123.00 €147.20



Applied Combinatorics

6th Edition

ALAN TUCKER

State University of New York, USA

- ❖ A new edition of one of the most widely used books on combinatorial problems
- ❖ Builds on the previous editions with more in depth analysis of computer systems in order to help develop proficiency in basic discrete math problem solving
- ❖ Explains how to reason and model combinatorially while stressing the systematic analysis of different possibilities, exploration of the logical structure of a problem, and ingenuity

READERSHIP: Mathematical and Computer Sciences, Operations Research, and Management Science Lecturers and Students

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College Geometry

Using the Geometer's Sketchpad

1st Edition

BARBARA E. REYNOLDS & WILLIAM E. FENTON

- ❖ Adopts a truly discovery-based approach
- ❖ Guides readers to learn geometry through explorations of topics ranging from triangles and circles to transformational, taxicab, and hyperbolic geometries
- ❖ Provides an understanding of geometry and ways to write rigorous mathematical proofs

READERSHIP: Mathematics Students

OCT 2011 300PP 978-0-470-53493-9 PR £70.50 €84.00





Crossing the River with Dogs

Problem Solving for College Students

KEN JOHNSON, TED HERR & JUDY KYSH

- ❖ Adapted from the popular high school text to provide an accessible and coherent college-level course in mathematical problem solving for adults
- ❖ Focuses entirely on problem solving and uses issues relevant to college students for examples
- ❖ The authors continue their approach of explaining classic as well as non-traditional strategies through dialogues among fictitious students

READERSHIP: Primary School Mathematics teachers, Students undertaking Developmental Mathematics courses

OCT 2011 500PP 978-0-470-46473-1 PR £74.50 €88.80

Facilities Change Management

EDWARD FINCH

University of Salford, UK

- ❖ Presents a fresh light on facilities management by considering front-of-house aspects
- ❖ Treats workplace productivity and customer service as its central theme
- ❖ Brings together a number of relevant themes from the design of the workplace to customer service and stakeholder management.
- ❖ Matches core competencies identified in the British Institute of Facilities Management training programme
- ❖ Written in an accessible style by an established author and Editor of the journal Facilities.

READERSHIP: Facilities managers and related professions

OCT 2011 272PP 978-1-4051-5346-1 PR £39.50 €47.40

Shaping Our World

Engineering Education for the 21st Century

GRETAR TRYGGVASON & DIRAN APELIAN

Both of Worcester Polytechnic Institute, USA

- ❖ Describes how to put into practice engineering educational programs that align with changes, such as those proposed in the NAE Engineer of 2020 reports.
- ❖ Focuses on outcomes-based/project-centric engineering educational paradigms
- ❖ Describes how to implement scalable and sustainable innovations
- ❖ Discusses the practicalities of how to implement changes and how to engage the faculty
- ❖ Describes recordable and measurable best practices
- ❖ Condenses current discussions of engineering education into specific changes and actionable proposals

READERSHIP: Practicing engineers, professors of engineering, engineering students in materials, mechanical, electrical, computer, civil, chemical, and biomedical engineering; university administrators responsible for curriculum development

OCT 2011 300PP 978-0-470-92974-2 PR £39.97 €48.00

Introduction to Bioelectronics - For Engineers and Physical Scientists

RONALD R PETHIG & STEWART SMITH

The University of Edinburgh, Scotland

- ❖ With emphasis on the fundamentals of the biochemical, biophysical, electrical and physiological concepts relevant to bioelectronics, this is the only book available on the topic that is suitable for students
- ❖ Uses an interdisciplinary approach to present basic theory with practical examples and clinical applications, and delivers the necessary biological knowledge from an electrical engineers perspective
- ❖ Each chapter contains a problem section that readers can use for self-assessment, and model answers are given at the end of the book (with references to key scientific publications)
- ❖ Contains many new developments in the bioelectronics and biosensors fields, such as microfluidic devices and nanotechnology

READERSHIP: Postgraduate engineering and physical sciences students studying courses in bioelectronics, bioengineering, micro- and nano-engineering, researchers without training in biology entering PhD programmes or industrial projects in bioelectronics, bioengineering, micro- and nano-engineering

DEC 2011 384PP 978-1-1199-7087-3 CL £50.00 €60.00

Practical Reliability Engineering 5e

PATRICK P O'CONNOR & ANDRE KLEYNER

- ❖ Maintains the same academic and practical level of the Fourth Edition, whilst bringing the material up-to-date with modern reliability practices as they continue to evolve
- ❖ Contains new material on the latest reliability software packages
- ❖ Has an expanded section on Weibull distribution, the most commonly used distribution in reliability mathematics
- ❖ Includes Power Point slides and solutions for course tutors held on a companion website

READERSHIP: Experienced reliability engineers, engineers studying for CRE, ASQ or IQA certification, design and reliability engineers, senior undergraduate students in quality assurance or reliability, graduate students

SERIES: QUALITY AND RELIABILITY ENGINEERING SERIES

NOV 2011 544PP 978-0-470-97981-5 PR £50.00 €60.00

Steel Structures

Design Using FEM

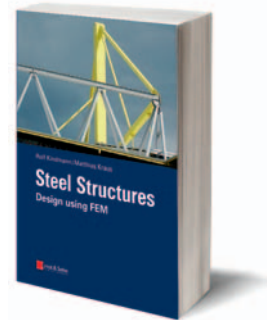
ROLF KINDMANN & MATTHIAS KRAUS

Both of the University of Bochum, Germany

- ❖ The Finite Element Method (FEM) has become a standard tool used in everyday work by structural engineers having to analyse virtually any type of structure
- ❖ Focus on various important stability cases such as flexural buckling, lateral torsional buckling and plate buckling along with determining ideal buckling loads and second-order theory analysis

READERSHIP: For practicing engineers and students in engineering

APR 2011 542PP 978-3-433-02978-7 PR £50.00 €60.00



Advanced Control of Aircraft, Rockets and Spacecraft

ASHISH TEWARI

Indian Institute of Technology, India

- ❖ Presents a unified approach to aircraft, missile, and spacecraft flight control systems
- ❖ Appropriate as both an introductory course on aircraft/ spacecraft stability and control, as well as an advanced course on automatic flight control systems.
- ❖ Includes chapters on rigid flight dynamic models, single variable linear control, multivariable linear optimal control, robust and adaptive flight control and nonlinear flight control.
- ❖ Allows the reader to test their grasp of the concepts presented via numerous pedagogical features including worked-out examples and problems at the end of each chapter, as well as case studies, short knowledge-check questions, longer assignments including coding and examination questions.
- ❖ Offers both analytical insight and computational applications with a number of MATLAB/ SIMULINK examples housed on an accompanying website that are realistic and representative of the state-of-the-art in flight control.

READERSHIP: Senior and graduate students in mechanical and aerospace engineering/aeronautics and astronautics and electrical/electronic engineering departments, researchers and engineers working in the above fields

SERIES: AEROSPACE SERIES (PEP)

JUL 2011 456PP 978-0-470-74563-2 CL £64.95 €78.00

Morphing Aerospace Vehicles and Structures

JOHN VALASEK

Texas A&M University, USA

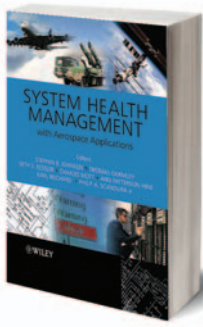
- ❖ Groundbreaking first book on the highly topical subject of morphing aerospace vehicles and structures
- ❖ Addresses morphing aircraft, bio-inspiration, and smart structures in three sections, with specific focus on the flight control, aerodynamics, bio-mechanics, materials, and structures of these vehicles.
- ❖ Unifies the approaches, methodologies, and tools required to provide practicing engineers and applied researchers with the insight to synthesize morphing air vehicles and morphing structures
- ❖ Written by chapter authors who are all experts in their fields, with contributions from leading global pioneers including Wei Shyy and James Hubbard Jr.

READERSHIP: Graduate students, and applied researchers in fluid dynamics/ aerodynamics and design, smart materials & structures and UAVs, researchers in industry

SERIES: AEROSPACE SERIES (PEP)

NOV 2011 350PP 978-0-470-97286-1 CL £85.00 €102.00





System Health Management

With Aerospace Applications

STEPHEN B JOHNSON, SETH KESSLER, CHARLES MOTT, ANN PATTERSON-HINE, KARL REICHARD & PHILIP SCANDURA, JR.

NASA, Thomas Gormley, Gormley & Associates; Metis Design Corporation; NASA Langley Research Centre; Pennsylvania State UniversityVHM & Decision Technology, Honeywell Int

- ❖ Authored and edited by experts from NASA and leading industry partners
- ❖ Collates together a wealth of information currently unpublished or disseminated throughout journal and conference papers.
- ❖ Explains the fundamentals of each sub-discipline introduced, with a comprehensive list of references, enabling the reader to expand their knowledge base with no prior specialist experience required in the disparate areas.
- ❖ Features real-life case studies

READERSHIP: Reference text for practitioners and project/programme managers in the aerospace field and other related engineering disciplines where SHM can be usefully applied, safety, reliability and certification engineers, researchers, professors and postgraduate students in the field of health management

JUL 2011 664PP 978-0-470-74133-7 CL £129.50 €155.40

Medical Imagery

HERVÉ FANET

CEA Leti, France

- ❖ Importance of medical imaging for diagnostic is strongly increasing and it is now necessary to have a good knowledge of the different physical possible principles.
- ❖ This book describes the different principles and equipments used in medical imaging in a comprehensive manner.

READERSHIP: Researchers, clinicians, engineers and professionals in this area, postgraduate students in the signal and image processing field

MAY 2011 352PP 978-1-8482-1241-1 CL £96.95 €116.40

Vibrations and Waves

TAMER BÉCHERRAWY

- ❖ Deals with vibrations, waves, and the basic principles and methods of analysing various physical phenomenaIncludes the general properties of propagation, a detailed study of mechanical (elastic and acoustic) and electromagnetic waves, propagation, attenuation, dispersion, reflection, interference and diffraction of waves

- ❖ Features chapters on the effect of motion of sources and observers (both classical and relativistic), emission of electromagnetic waves, standing and guided waves

- ❖ A final chapter on de Broglie waves constitutes an introduction to quantum mechanics

READERSHIP:

MAY 2011 978-1-8482-1283-1 CL £96.95 €116.40



Mechanics of Rubber Bearings for Seismic and Vibration Isolation

JAMES M. KELLY & DIMITRIOS KONSTANTINIDIS

University of California, USA

- ❖ Collates in a compact form all of the information on the mechanics of the increasingly important technology of multi-layer rubber bearings
- ❖ Presents the design and specifications of bearings for buildings, bridges and industrial structures
- ❖ Authored by world-leading experts with over 40 years of experience on the behaviour of multilayer elastomeric bearings
- ❖ Includes state of the art, as yet unpublished research along with all required fundamental concepts

READERSHIP: Postgrads and researchers/ practitioners in mechanical/structural engineering departments, in particular those working in seismic and vibration isolation. Graduate students taking earthquake engineering graduate courses and courses on earthquake hazard mitigation

AUG 2011 248PP 978-1-1199-9401-5 CL £80.00 €96.00

Environmental Scanning and Sustainable Development

NICOLAS LESCA

- ❖ An initial exploration of the relationship between scanning and sustainable development.
- ❖ Examines the application, characteristics and implementation of scanning oriented toward sustainable development
- ❖ Offers some answers to the questions what is sustainable scanning? what new issues does it raise for management practice and management science? what forms can it take? and how ?

READERSHIP: Both students and professionals involved in environmental scanning, data analysis, mapping and sustainable development

JUN 2011 336PP 978-1-8482-1284-8 CL £83.50 €100.20



Extractive Metallurgy 3

Processing Operations and Routes

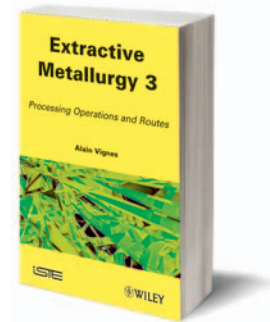
ALAIN VIGNES

School of Mines, France

- ❖ Extractive metallurgy is the art and science of extracting metals from their ores and refining them
- ❖ The extraction and refining operations that are required may be carried out by various metallurgical reaction processes
- ❖ Extractive Metallurgy 3 deals with the industrial processing operations, technologies, and process routes used to convert the ore to metal
- ❖ Processes and operations are studied using the methodology of chemical reaction engineering

READERSHIP: Students in the fields of Metallurgy and Mechanical Engineering, engineers in charge of the operation of an industrial production unit or development of a new process, who will need the basic knowledge of the corresponding technology

MAR 2011 TBAPP 978-1-8482-1292-3 CL £96.95 €116.40



Formulation

ANNE-MARIE PENSÉ-LHÉRITIER

- ❖ Deals with the formulation of industrial products
- ❖ Its field of application goes from food-processing industry to the industry of elastomers showing that the principles of development follow always the same methodology

READERSHIP:

MAY 2011 TBAPP 978-1-8482-1259-6 CL £83.50 €100.20



Practical Reliability Engineering 5e

PATRICK P O'CONNOR & ANDRE KLEYNER

Consultant, UK; Delphi Electronics & Safety, USA

- ❖ Maintains the same academic and practical level of the Fourth Edition, whilst bringing the material up-to-date with modern reliability practices as they continue to evolve
- ❖ Contains new material on the latest reliability software packages
- ❖ Has an expanded section on Weibull distribution, the most commonly used distribution in reliability mathematics
- ❖ Includes Power Point slides and solutions for course tutors held on a companion website

READERSHIP: Experienced reliability engineers, engineers studying for CRE, ASQ or IQA certification, design and reliability engineers, senior undergraduate students in quality assurance or reliability, graduate students

SERIES: QUALITY AND RELIABILITY ENGINEERING SERIES

NOV 2011 544PP 978-0-470-97982-2 CL £95.00 €114.00

Statistical Analysis of Profile Monitoring

RASSOUL NOOROSSANA, ABBAS SAGHAEI & AMIRHOSSEIN AMIRI

All of Islamic Azad University, Iran

- ❖ First book of its kind on the subject.
- ❖ Written by experts in the field (such as J. D. Williams of General Electric Global Research, Jeffrey B. Birch at VPI, and Longcheen Huwang of the Institute of Statistics at Tsing Hua University Hsin Chu).
- ❖ It is current and presents state-of-the-art materials.
- ❖ There is world-wide appeal for content such as this given the recent debate of quality assurance in the car industry.

READERSHIP: As an advanced course book in statistical quality control; as a reference book for MS and PhD students interested in doing research in the area; as a handbook for practitioners in quality control; as a resource in corporate, university, and departmental libraries

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

AUG 2011 312PP 978-0-470-90322-3 CL £73.50 €88.20

Structural Health Monitoring - A Machine Learning Perspective

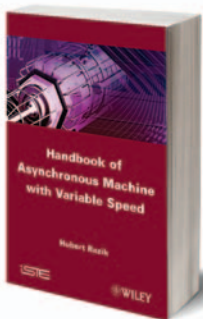
CHARLES R. FARRAR & KEITH WORDEN

Los Alamos National Laboratory, USA; University of Sheffield, UK

- ❖ First comprehensive book on structural health monitoring, including a chapter on damage prognosis
- ❖ Unique approach using a statistical pattern recognition paradigm allowing the development of SHM solutions
- ❖ Extensive use of the authors detailed surveys of the technical literature and the experience they have gained from teaching numerous short courses on this subject.

READERSHIP: Practising engineers in aerospace, civil and mechanical engineering that are developing damage detection methodologies for their company's manufactured products or their manufacturing infrastructure, university researchers, lecturers and graduate students in these same fields, employees of government agencies that manage the procurement and maintenance of high-capital expenditure hardware such as military aircraft

NOV 2011 384PP 978-1-1199-9433-6 CL £85.00 €102.00



Handbook of Asynchronous Machines with Variable Speed

HUBERT RAZIK

Nancy-Université Henri Poincaré, France

- ❖ Deals with the asynchronous machine in its close environment T
- ❖ his type of motor has been integrated more and more in processes at variable speeds
- ❖ This handbook describes various aspects from the motor in itself, via the control and while finishing by the diagnosis aspect
- ❖ It informs users of the process, the appearance of any anomaly and its severity

READERSHIP: Professionals involved in the planning and implementation of information systems, computer scientists, device designers, and developers in industry, advanced undergraduate and postgraduate students of computer science, electrical engineering and communications

TBA TBAPP 978-1-8482-1225-1 CL £130.00 €156.00



Critical Component Wear in Heavy Duty Engines

P. A. LAKSHMINARAYANAN & NAGARAJ S. NAYAK

Ashok Leyland, India; Sahyadri College of Engg. & Management, India

- ❖ The first book to combine solutions to wear in one volume
- ❖ Presents real world case studies with suitable mathematical models for earth movers, power generation, and sea going vessels
- ❖ Includes material from researchers at Chevron (USA), Tekniker (Spain), IP Rings (India), Kirloskar Oil Engines Ltd (India)
- ❖ Wear simulations and calculations included in the appendices
- ❖ Instructor presentations slides with book figures available from the companion site

READERSHIP: Postgraduates in automotive engineering, engine design, tribology, combustion and practioners involved in engine R&D for applications such as commercial vehicles, cars, stationary engines (for generators, pumps etc.), boats and ships, senior undergraduates looking to move onto advanced study in the above topics; consultants and product mangers in industry; engineers involved in design of furnaces, gas turbines, and rocket combustion

SEP 2011 352PP 978-0-470-82882-3 CL £100.00 €120.00

Beam Structures - Classical and Advanced Theories

ERASMO CARRERA, GAETANO GIUNTA & MARCO PETROLO

Politecnico di Torino, Italy; Centre de Recherche Public Henri Tudor, Italy

- ❖ Compares classical and modern approaches to beam theory - something that often it is ignored by existing titles
- ❖ Authored by the originator of the unified formulation for beams, plates and shells
- ❖ Presents both the classical and advanced beam theories in a form that is very suitable for computer implementation, and is accompanied by a website hosting dedicated software MUL2 that is used to obtain the numerical solutions in the book.
- ❖ Overcomes the problem of classical formulae that require different formulas for tension, bending, shear and torsion; the unified approach can be applied to any beam geometries and loading conditions, reaching a high level of accuracy

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

SERIES: WILEY SERIES IN COMPUTATIONAL MECHANICS

OCT 2011 320PP 978-0-470-97200-7 CL £75.00 €90.00

Plates and Shells for Smart Structures

Classical and Advanced Theories for Modelling and Analysis

ERASMO CARRERA, GAETANO GIUNTA, SALVATORE BRISCHETTO & PIETRO NALI

Politecnico di Torino, Italy

- ❖ Compares classical and modern approaches to plates and shells an approach that is often missing from existing titles
- ❖ Introduces theories able to consider electromechanical couplings as well as those that provide appropriate interface continuity conditions for both electrical and mechanical variables. Considers both static and dynamic analysis
- ❖ Features a companion website hosting dedicated software MUL2 that is used to obtain the numerical solutions in the book, allowing the reader to reproduce the examples given in the book as well as to solve other problems of their own.

READERSHIP: Researchers into smart structures, structural analysts in industry, graduate and postgraduate students of mechanical, civil and aerospace engineering

SERIES: WILEY SERIES IN COMPUTATIONAL MECHANICS

OCT 2011 352PP 978-0-470-97120-8 CL £80.00 €96.00

Astronautics

The Physics of Space Flight

2nd, Enlarged and Improved Edition

ULRICH WALTER

Institut für Luft- und Raumfahrt, Germany

- ❖ The second edition of the authoritative textbook on Astronautics written by an author with first-hand knowledge of the subject as a crew member of the D-2 Shuttle Mission and being a full professor of Astronautics
- ❖ Based upon extensive teaching experience and work with students at the Technical University, Munich
- ❖ More than 20% of new and 15% updated content, e.g. on perturbation theory and space rendezvous
- ❖ Includes new numerous chapter-end examples and problems

READERSHIP: Students of mechanical engineering, aircraft and space industry, aerospace physicians, aerospace engineers, libraries, libraries at universities

NOV 2011 520PP 978-3-527-41035-4 PR £60.00 €72.00 / 978-3-527-41065-1 CL £100.00 €126.00



RFID-Enabled Real-Time Manufacturing

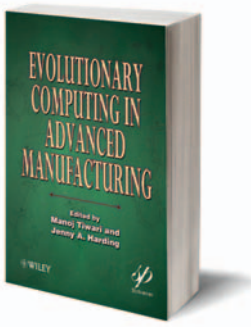
GEORGE HUANG

University of Hong Kong, China

- ❖ The first book to report comprehensively on field experiences through industrial case studies about RFID manufacturing applications

READERSHIP: Industrial practitioners, researcher, senior undergraduate and postgraduate students in manufacturing engineering and logistics operations, researchers involved in developing and deploying RFID-enabled manufacturing solutions, practitioners involved in setting up and implementing RFID-enabled manufacturing projects

JUL 2011 400PP 978-0-470-90165-6 CL £96.67 €116.10



Evolutionary Computing in Advanced Manufacturing

MANOJ TIWARI & JENNY A. HARDING

Indian Institute of Technology, Kharagpur, India; Loughborough University, UK

- ❖ Covers emerging, evolutionary and nature inspired optimization techniques in the field of advanced manufacturing
- ❖ Gives companies a competitive advantage as they need to employ the technologies discussed
- ❖ Introduces evolutionary computing approaches in the context of a wide range of manufacturing activities
- ❖ Discusses modified and improved versions of evolutionary algorithms
- ❖ Concludes with appendices which provide general descriptions of several evolutionary algorithms

READERSHIP: Advanced manufacturing engineers in academia as well as industry and large and medium-sized corporation around the world. Software manufacturers and engineers will also find this book of real interest

JUL 2011 400PP 978-0-470-63924-5 CL £123.00 €147.60

Understanding and Using ANSYS

ALIREZA SAYADI

Manufacturing Engineer, Australia

- ❖ Contains basic FEM and ANSYS information and provides the same balance at the advanced subject so the readers attain a thorough understanding of the two
- ❖ Provides a simple, yet thorough explanation of FEM and other numerical methods
- ❖ Includes comprehensive examples followed by interpretation and comparison of results with traditional theoretical methods
- ❖ Provides a sophisticated combination of theoretical and experimental cases
- ❖ Presents 50 illustrative examples, step by step with fully interpreted results
- ❖ Includes tips and notes for modeling and analysis

READERSHIP: Civil, structural, mechanical, and aerospace engineers, as well as applied mathematicians, mechanical, civil, and aerospace students at the B.S, M.S and PhD levels, ANSYS training centers and institutes

SEP 2011 TBAPP 978-0-470-90166-3 CL £92.67 €111.30

Introduction to Manufacturing Processes

GROOVER

Lehigh University, USA

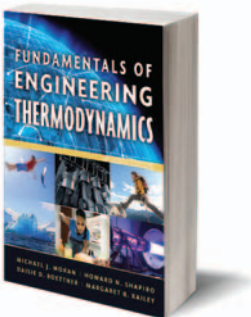
- ❖ Incorporates design topics, balance quantitative and qualitative coverage.
- ❖ The text includes several case studies expanded upon online with related assessment content along with videos with related assessment questions.
- ❖ Includes "hot topics" pedagogical elements with discussions ranging from lean manufacturing to green engineering to nanotechnology as well as an end chapter containing "putting it all together" systems analysis type exercises.
- ❖ Offers current information on the latest developments in the field whilst making the topic of manufacturing processes exciting with visualizing processes.

READERSHIP: Industrial Engineering undergraduate students, with modules in manufacturing

SEP 2011 650PP 978-0-470-63228-4 PR £42.99 €89.00



TEXT BOOK



Fundamentals of Engineering Thermodynamics

7th Edition

MICHAEL J. MORAN, HOWARD N. SHAPIRO, DAISIE D. BOETTNER & MARGARET B. BAILEY

The Ohio State University, USA; Iowa State University of Science and Technology, USA; Colonel, United States Army, USA; Rochester Institute of Technology, USA

- ❖ Now in a Seventh Edition, Fundamentals of Engineering Thermodynamics continues to set the standard for teaching readers how to be effective problem solvers, emphasizing the authors' signature methodologies that have taught over a half million students worldwide.
- ❖ This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the most critical issues of today and coming decades, including a wealth of integrated coverage of energy and the environment, biomedical/bioengineering, as well as emerging technologies.
- ❖ Visualization skills are developed and basic principles demonstrated through a complete set of animations that have been interwoven throughout.

READERSHIP: Engineers, students and professors of engineering thermodynamics

SEP 2011 1024PP 978-0-470-49590-2 CL £161.00 €193.60



TEXT BOOK

Ground Surface and Water Hydrology

LARRY W. MAYS

Arizona State University, USA

- ❖ This comprehensive text stresses the fundamentals of hydrologic processes for both surface water hydrology and groundwater hydrology.
- ❖ Making use of internet resources, such as free modelling tools, to help students solve more complicated and real-world problems more quickly, and to help motivate student interest in the topics
- ❖ Newer topics in hydrology such the use of GIS, remote sensing, NEXRAD and other topics are discussed.
- ❖ Emphasis will be given to the hydrologic processes and practice in the different climates: humid climate, cold climate, temperate climate, and arid and semi-arid climate.

READERSHIP: Hydrology is an undergraduate course, but may also be taught at the graduate level, depending on the course. It is covered in Civil Engineering, Environmental Engineering, and Environmental Science courses.

JUL 2011 704PP 978-0-470-16987-2 CL £42.99 €98.40



Transport by Advection and Diffusion

TED BENNETT

University of California, USA

- ❖ This book surpasses all other fundamental transport texts in its development of requisite math skills.
- ❖ The author develops analytical and numerical tools to aid problem solving in every topic area of the text. These tools foster use of generalized methods in the exercises, and enrich student understanding.
- ❖ The book helps students to develop the maths skills necessary to combine with the conceptual understanding needed to succeed in research and education.
- ❖ Online Resources include Solutions Manual, Software Codes, Image Gallery, Art PowerPoint slides.

READERSHIP: Senior undergraduate or graduate level course for Chemical and Mechanical engineers, Environmental studies, Earth Science, Materials Science, and Physics. The book will also appeal to practitioners

DEC 2011 656PP 978-0-470-63148-5 CL £42.99 €134.40



Deformation and Fracture Mechanics of Engineering Materials

5th Edition

RICHARD W. HERTZBERG

Lehigh University, USA

- ❖ Updated to reflect recent developments in the understanding of deformation and fracture processes in structural materials.
- ❖ New features have been added including a new chapter on products liability/recall, sidebar case studies with important court rulings relevant to failures and more end-of-chapter problem sets in book and on companion site.
- ❖ Online Resources include Solutions Manual and an Image Gallery.

READERSHIP: Senior undergraduates or graduates in Mechanical or Biomedical Engineering. It would also fit with an upper level Materials Science course

DEC 2011 816PP 978-0-470-52780-1 CL £105.00 €125.60



Fox and McDonald's Introduction to Fluid Mechanics

8th Edition

PHILIP J. PRITCHARD

Manhattan College, USA

- ❖ This new edition will help students connect theory to the physical world, reinforce student problem-solving through a consistent problem-solving methodology, and provide sufficient practice problems for students to improve/reinforce their math skills.
- ❖ 13 new Case Studies will help engage students in thinking about and understanding how fluid mechanics impact contemporary issues. Case Studies include Wave Power and Wind Turbines.
- ❖ Over 70 videos will help students visualise fluid flow, and connect the mathematical models of fluid mechanics to the real world.
- ❖ Over 300 new or revised problems have been added to the best loved 1300 homework problems in fluid mechanics.

READERSHIP: Undergraduate engineering students on Mechanical, Civil, Chemical, Aerospace, Nuclear, Biomedical, or Environmental courses and professors in engineering

AUG 2011 978-1-1180-2641-0 PR £49.99 €60.00





Introduction to Engineering

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2nd Edition

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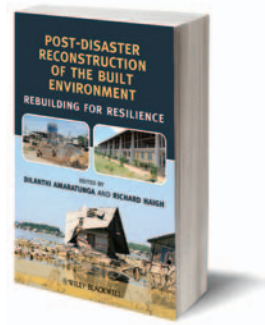
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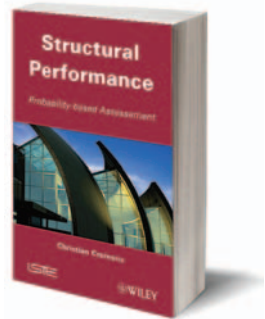
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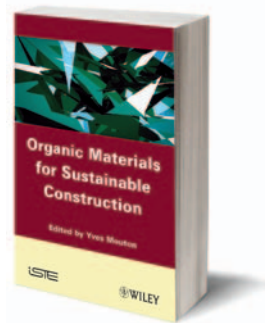
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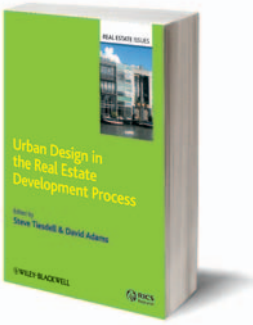
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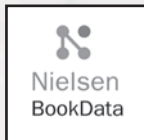
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