



2012

APR • MAY • JUN

The Wiley-Blackwell Preview

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Humanities & Social Sciences



Tattoos - Philosophy for Everyone

I Ink, Therefore I Am

Edited by ROBERT ARP

The Analysis Group, LLC, USA

SERIES EDITOR: FRITZ ALLHOFF

Western Michigan University, USA & The Nanoethics Group

- ✧ Explores the nature of tattoos and the tattooing arts and the enlightening philosophical analysis that can be drawn from them
- ✧ Considers the intriguing questions that tattoos raise, such as - are they body art or eyesore, a celebration of individuality, an expression of freedom, religious symbolism or social stigma, as well as their relationship with areas such as aesthetics, feminism and semiotics
- ✧ Chapters are enthusiastically inked by philosophers (most with tattoos), tattoo artists, and tattoo enthusiasts, who present philosophical ideas accessibly for the non-philosopher

READERSHIP: General readers; students and academics of Philosophy and Pop Culture; tattoo artists and enthusiasts

SERIES: PHILOSOPHY FOR EVERYONE

APR 2012 304PP 978-0-470-67206-8 PR TBA

The Second Sexism

Discrimination Against Men and Boys

DAVID BENATAR

University of Cape Town, South Africa

- ✧ Challenges conventional ways of thinking about sex discrimination
- ✧ Offers an academically rigorous argument in an accessible style, including the careful use of empirical data
- ✧ Examines controversial issues such as sex-based affirmative action, gender roles, and charges of anti-feminism
- ✧ Discusses how sex discrimination against men and boys also undermines the cause for female equality

READERSHIP: Scholarly and general audiences interested in sex discrimination, feminism and gender studies; undergraduate and graduate courses in Philosophy, Political Science, Sociology, Law, Gender Studies, Women's Studies, and Men's Studies

SERIES: BLACKWELL PUBLIC PHILOSOPHY SERIES

APR 2012 304PP 978-0-470-67451-2 PR TBA / 978-0-470-67446-8 CL TBA



The I in We

Studies in the Theory of Recognition

AXEL HONNETH

Johann Wolfgang Goethe University, Germany

- ✧ This is an important new book by one of the leading social philosophers of our time
- ✧ In this volume Axel Honneth deepens and develops his highly influential theory of recognition
- ✧ Rather than seeing groups as regressive social forms that threaten the autonomy of the individual, Honneth argues that the 'I' is dependent on forms of social recognition embodied in groups

READERSHIP: Graduates and scholars, philosophy, humanities and social sciences

JUN 2012 248PP 978-0-745-65233-7 PR €23.90 / 978-0-745-65232-0 CL €71.90



Eve Escapes

Ruins and Life

HÉLÈNE CIXOUS

Centre de Recherches en Études Féminines at Paris VIII University, France

- ✧ Cixous is generally regarded as one of the leading, if not the leading French feminist writer
- ✧ All of her books tend to be written as philosophical novels, combining elements of autobiography and fiction with reflection of a more philosophical and psychoanalytic kind
- ✧ This is an extremely moving account of her relationship with her mother
- ✧ This should be of interest to students of Cixous and of contemporary French theory and novels

READERSHIP: Upper level students and scholars of philosophy, literature and literary theory, French and gender studies

JUN 2012 176PP 978-0-745-65097-5 PR €19.90 / 978-0-745-65096-8 CL €65.90



polity

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Ontology of the Accident

An Essay on Destructive Plasticity

CATHERINE MALABOU

Kingston University, London, UK

- ❖ Catherine Malabou is a rising star of French philosophy and has a high reputation in the English speaking world
- ❖ Here Malabou develops her influential theory of 'plasticity' by reflecting on psychic and brain trauma
- ❖ What kind of being emerges from a serious trauma of this kind? Is it a new person, born by accident? What kind of ontology do we need to account for it?
- ❖ This book will be of interest to students and scholars in gender studies, feminist theory, philosophy, literature and the humanities generally

READERSHIP: Students and scholars of philosophy

JUN 2012 104PP 978-0-745-65261-0 PR €12.90 / 978-0-745-65260-3 CL €44.90



The Third Person

Politics of Life and Philosophy of the Impersonal

ROBERTO ESPOSITO

University of Naples, Italy

- ❖ Roberto Esposito is one of leading figures in a new generation of Italian philosophers
- ❖ This book criticizes the notion of the person and develops an original account of the concept of the impersonal – what he calls the third person
- ❖ His analysis ranges widely from the Ancient world to the present and addresses some of the core concerns of contemporary philosophy and cultural theory

READERSHIP: Students and scholars of philosophy, politics and sociology

MAY 2012 176PP 978-0-745-64398-4 PR €20.90 / 978-0-745-64397-7 CL €65.90



Zizek

A Reader's Guide

KELSEY WOOD

Pulaski Technical College, USA

- ❖ Dubbed "The Elvis of cultural theory", this is a comprehensive overview of Slavoj Žižek's thought, including all of his published works to date
- ❖ Identifies the major currents in Žižek's thought, and provides a background to the continental philosophy and psychoanalytic theory necessary to its understanding
- ❖ Explores Žižek's growing popularity through his engagement in current events, politics, cultural studies, psychology, literary and film theory
- ❖ Provides a solid grounding in the work of a thinker and teacher whose ideas will continue to inform philosophical, psychological, political, and cultural discourses well into the future

READERSHIP: Readers interested in contemporary philosophy, psychology, cultural studies, sociology, political science, esthetics, literary theory, film theory, and theology; Graduate and undergraduate courses in philosophy, psychology, sociology, cultural studies, political science, film theory/studies, and religious studies

APR 2012 272PP 978-0-470-67476-5 PR TBA / 978-0-470-67475-8 CL TBA



The New French Philosophy

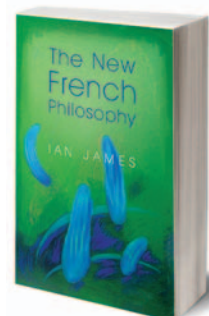
IAN JAMES

University of Cambridge, UK

- ❖ A major new introduction to contemporary French philosophy, focusing on the most recent developments since post-structuralism and postmodernism
- ❖ Examines in detail the work of seven key thinkers, including Alain Badiou, Jean-Luc Nancy, Jacques Rancière and Catherine Malabou, situating each thinker in relation to earlier thinkers and traditions of thought
- ❖ Explores their reassessment of conceptions of materiality, human agency, subjectivity and politics, among other things
- ❖ This book will be indispensable for students of philosophy and will also be of great interest to a wider readership interested in current developments in philosophy and social thought

READERSHIP: Second year students and above in philosophy, modern languages, French studies

APR 2012 240PP 978-0-745-64806-4 PR €21.90 / 978-0-7456-4805-7 CL €71.90



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Bioethics for Beginners

60 Cases and Cautions from the Moral Frontier of Healthcare

GLENN MCGEE

Center for Practical Bioethics, USA

- ✦ Maps the giant developments in the field of bioethics that are shaping the forefront of debate on modern social values
- ✦ 60 headline cases provide an examination of topics such as: stem cell research, cloning, aging, patient rights in persistent vegetative states, fertility and finance, pandemics and drug-rationing, the risks of clinical research, the sale of human organs, the creation of artificial life, and the role of physicians in torture
- ✦ Written by leading bioethicist and commentator, Glenn McGee, founding editor of The American Journal of Bioethics
- ✦ Introduces readers to the social, economic and legal side of 21st century medicine, inviting them to decide for themselves what the scientific future should hold

READERSHIP: Undergraduate and graduate students in philosophy, bioethics, biology or medicine; general readership

MAY 2012 192PP 978-0-470-65911-3 CL TBA



Knowledge

IAN EVANS & NICHOLAS SMITH

University of Arizona, USA; Lewis and Clark College, USA

- ✦ An engaging, accessible new textbook specifically designed to introduce students to all aspects of the theory of knowledge
- ✦ Covers all of the classic accounts of the field, as well as encompassing recent developments in a special 'current trends' section
- ✦ Students are expertly guided through all of the central theories and debates, including issues around skepticism, justification and contextualism
- ✦ The authors also advance their own groundbreaking theory of knowledge, incorporating research on animal cognition

READERSHIP: Undergraduate and postgraduate students taking courses in epistemology and theory of knowledge

SERIES: KEY CONCEPTS IN PHILOSOPHY

MAY 2012 240PP 978-0-745-65053-1 PR €20.90 / 978-0-745-65052-4 CL €65.90



What to Believe Now

Applying Epistemology to Contemporary Issues

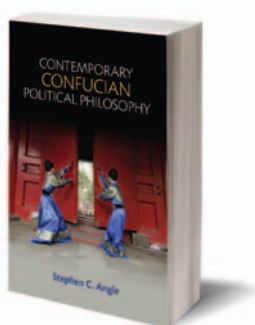
DAVID COADY

University of Tasmania, Australia

- ✦ Applies the concerns and techniques of epistemology to a wide variety of contemporary issues, asking how do we know what we know, And how do we know what is true in today's world?
- ✦ Considers the practicalities of working out issues of trust in modern forms of communication such as rumors, conspiracy theories, and blogs
- ✦ Presents an accessible approach to a philosophical field of increasing importance
- ✦ Features original research and insights that are on the cutting edge of the topics addressed

READERSHIP: Undergraduate and graduate level students on courses in epistemology, applied philosophy, applied epistemology, social epistemology, political or social philosophy, and media ethics; also for academic philosophers and those interested in underlying principles of knowledge and belief

MAY 2012 224PP 978-1-4051-9994-0 PR €25.90 / 978-1-4051-9993-3 CL €71.90



Contemporary Confucian Political Philosophy

STEPHEN ANGLE

Wesleyan University, USA

- ✦ An engaging and accessible overview of an increasingly influential philosophical field
- ✦ Demonstrates the relevance of Confucian thought to a range of contemporary issues and events, and shows how it is deeply involved in current debates
- ✦ Presents the insights of Progressive Confucianism in a way that is immediately accessible even to those without a background in philosophy
- ✦ Will be essential reading for students taking courses in politics, philosophy, and East Asian history and culture

READERSHIP: Students taking relevant courses in politics, political theory and philosophy, as well as Chinese and East Asian studies more broadly

MAY 2012 220PP 978-0-745-66130-8 PR €23.90 / 978-0-745-66129-2 CL €71.90

Environmental Philosophy

From Theory to Practice

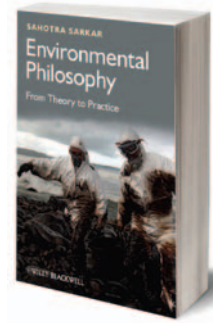
SAHOTRA SARKAR

University of Texas, Austin, USA

- ❖ The first comprehensive treatment of environmental philosophy, going beyond ethics to address the philosophical concepts that underlie environmental thinking and policy-making today
- ❖ Encompasses all of environmental philosophy, including conservation biology, restoration ecology, sustainability, environmental justice, and more
- ❖ Addresses hot-button issues, including population and immigration reform, as well as ongoing concerns such as historical legacies and a nations' responsibility and obligation for environmental problems
- ❖ Anchors philosophical concepts to their practical applications, establishing the priority of the discipline's real-world importance

READERSHIP: Researchers and graduate and undergraduate students in philosophy, environmental studies, conservation biology; Environmental ethics and environmental philosophy undergraduate courses

FEB 2012 240PP 978-0-470-67182-5 PR TBA / 978-0-470-67181-8 CL TBA



Experimental Philosophy

An Introduction

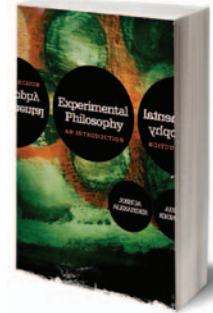
JOSHUA ALEXANDER

Siena College, USA

- ❖ An accessible introduction to an innovative and exciting new field emerging at the intersection of philosophy and cognitive science
- ❖ This book provides a comprehensive overview of the field, situating experimental philosophy in relation to the established analytic tradition
- ❖ Provides a clear evaluative guide to the often conflicting research programs which make up this fast-moving field
- ❖ Critically examines the core concepts and methods of experimental philosophy, in a lucid and concise manner suited to students

READERSHIP: Undergraduate and graduate students of philosophy, as well as academics in both the philosophy and psychology fields

APR 2012 176PP 978-0-745-64918-4 PR €20.90 / 978-0-745-64917-7 CL €65.90



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Pragmatism

An Introduction

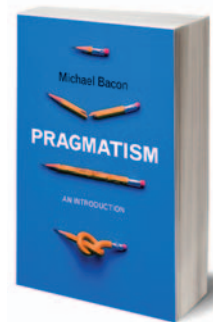
MICHAEL BACON

Royal Holloway, University of London, UK

- ❖ This is a comprehensive and contemporary introduction to the key figures and ideas which have defined the influential American philosophical tradition of Pragmatism
- ❖ Ranges from classical pragmatists such as Dewey, Peirce and James, through to the more recent contributions of Rorty, Bernstein and Brandom
- ❖ Michael Bacon expertly illustrates how Pragmatism represents a break with some of philosophy's most unquestioned presuppositions
- ❖ This is an accessible and exciting narrative account which will be of interest to students and scholars in philosophy, politics and the history of ideas

READERSHIP: Undergraduate students and above taking courses in political theory, political philosophy, pragmatism, American philosophy and analytic philosophy

MAR 2012 232PP 978-0-745-64665-7 PR €21.90 / 978-0-745-64664-0 CL €71.90



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As Free and as Just as Possible

The Theory of Marxian Liberalism

JEFFREY REIMAN

American University, USA

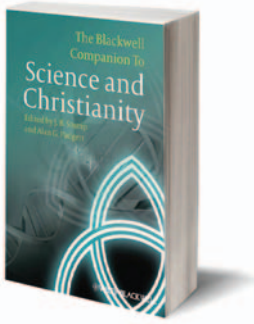
- ❖ A new thesis from one of America's foremost intellectuals that maps a new frontier in moral philosophy and political theory
- ❖ Distills a new concept of justice that recognizes the iniquities of capitalism
- ❖ Synthesis of elements of Marxism and Liberalism will interest readers across a spectrum of political theory
- ❖ Direct and jargon-free style opens these complex ideas to a wide readership

READERSHIP: Teachers, students and scholars at all levels in philosophy, especially moral philosophy and political theory; Policy makers and members of the judiciary; educated general readership with an interest in politics or philosophy

SERIES: BLACKWELL PUBLIC PHILOSOPHY SERIES

APR 2012 240PP 978-0-470-67412-3 CL TBA





The Blackwell Companion to Science and Christianity

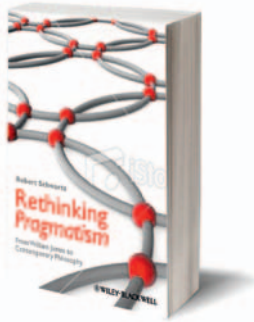
Edited by J. B. STUMP & ALAN G. PADGETT

Bethel College, USA; Luther Seminary, USA

- ❖ Provides a cutting-edge survey of the central ideas at play at the intersection of science and Christianity through 54 original articles by world-leading scholars and specialists
- ❖ Focuses on Christianity's interaction with Science to offer a fine-grained analysis of issues such as multiverse theories in cosmology, convergence in evolution, Intelligent Design, natural theology, human consciousness, artificial intelligence, free will, miracles, and the Trinity, amongst many others
- ❖ Addresses major historical developments in the relationship between science and Christianity, including Christian patristics, the scientific revolution, the reception of Darwin, and twentieth century fundamentalism

READERSHIP: General undergraduate and graduate level students in science and religion; scholarly and lay readers with a broad interest in the field of science and religion

SERIES: WILEY-BLACKWELL COMPANIONS TO RELIGION
MAY 2012 608PP 978-1-4443-3571-2 CL €142.00



Rethinking Pragmatism

From William James to Contemporary Philosophy

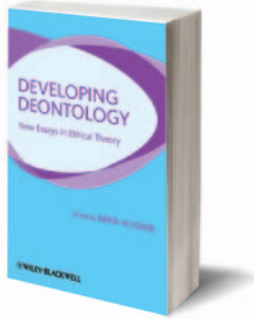
ROBERT SCHWARTZ

University of Wisconsin – Milwaukee, USA

- ❖ Explores the work of the American Pragmatists, especially James and Dewey, on the issues of truth, instrumentalism, meaning, realism, pluralism and religious beliefs
- ❖ The only available publication to provide a detailed commentary on James's book, *Pragmatism*, while relating the positions of James and the other American Pragmatists to contemporary philosophical issues
- ❖ Challenges standard readings of the American Pragmatists' positions in a way that illuminates and questions the assumptions underlying ongoing discussions of these topics
- ❖ Coherently arranged by structuring the book around the themes discussed in each chapter of James's original work

READERSHIP: Advanced undergraduates, graduate students, and academics interested in philosophy and specifically pragmatism; historians, political scientists and literary theorists

MAR 2012 176PP 978-0-470-67469-7 CL TBA



Developing Deontology

New Essays in Ethical Theory

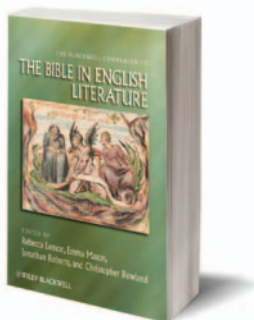
Edited by BRAD HOOKER

University of Reading, UK

- ❖ Presents six new essays in ethical theory by leading contemporary moral philosophers: Michael Smith, Philip Stratton-Lake, Ralph Wedgwood, David Owens, Peter Vallentyne, and Elizabeth Harman
- ❖ Each essay offers an original and previously unpublished contribution to the subject
- ❖ A significant addition to the field for anyone with an interest in the development of deontology

READERSHIP: Advanced undergraduates, postgraduates, and academics interested in moral philosophy

SERIES: RATIO SPECIAL ISSUES
APR 2012 128PP 978-1-4443-6194-0 PR €23.90



The Blackwell Companion to the Bible in English Literature

Edited by REBECCA LEMON, EMMA MASON, JONATHAN ROBERTS & CHRISTOPHER ROWLAND

University of Southern California, USA; University of Warwick, UK; University of Liverpool, UK; University of Oxford, UK

- ❖ An ambitious and interdisciplinary overview of the Bible's role and influence on English literature, from Old English poetry through to T. S. Eliot
- ❖ Brings together a comprehensive collection of newly-commissioned essays, written by leading scholars in the fields of religion, theology, and literature
- ❖ Draws on examples from medieval, early-modern, eighteenth-century, and Romantic, Victorian, and Modernist literature
- ❖ Includes introductory sections to each period giving background information about the Bible as a literary source text, and placing writers in their historical context

READERSHIP: Advanced undergraduates, postgraduates, and faculty in Biblical Studies and English Literature

APR 2011 720PP 978-0-470-67499-4 PR €35.90
HARDBACK ISBN: 978-1-4051-3160-5

Faith, Rationality and the Passions

Edited by SARAH COAKLEY

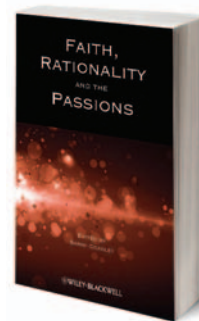
University of Cambridge, UK

- ❖ Brings together new research by leading philosophers, theologians, and scientists on the relationship between faith, reason and the passions in classic and Enlightenment figures
- ❖ Overturns the widely-held presumption that the Enlightenment was responsible for creating a gulf between reason and passion
- ❖ Presents original, innovative research on the importance of late nineteenth-century creation of ideas of emotion, and its striking difference from classical ideas of passion
- ❖ Combines secular science and philosophy of emotion with philosophical theology to seek a new integration of belief, emotion and reason

READERSHIP: Upper-level undergraduates, postgraduates, and faculty within theology, philosophy, and history

SERIES: DIRECTIONS IN MODERN THEOLOGY

MAR 2012 232PP 978-1-4443-6193-3 PR €25.90



La lengua que heredamos

7th Edition

SARAH MARQUES

- ❖ Adopts a literacy-building approach providing the tools necessary to use Spanish more effectively in personal and professional situations
- ❖ All four skills - reading, writing, speaking, listening are stressed throughout the text
- ❖ Includes twenty-two chapters, plus a *Lección* preliminar, a *Repasos* section, and a Spanish-English glossary
- ❖ Special emphasis is placed on reading comprehension and written communication (e.g. English influence, spelling)
- ❖ Integrates numerous support activities to build understanding of vocabulary

READERSHIP: Designed for students who are raised in an English-speaking country, but speak Spanish at home; otherwise known as "heritage" Spanish speakers

DEC 2011 528PP 978-1-1181-3488-7 CL €119.00



The Life of William Shakespeare

A Critical Biography

LOIS POTTER

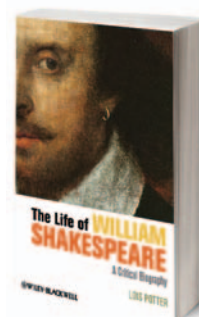
University of Delaware, USA

- ❖ A fascinating and wide-ranging exploration of Shakespeare's life and works focusing on often neglected literary and historical contexts
- ❖ Explores what Shakespeare read, who he worked with as an author and an actor, and how these various collaborations may have affected his writing
- ❖ Written by an eminent Shakespearean scholar and experienced theatre reviewer
- ❖ Pays particular attention to Shakespeare's theatrical contemporaries and the ways in which they influenced his writing

READERSHIP: Students, teachers, and the general reader interested in Shakespeare

SERIES: BLACKWELL CRITICAL BIOGRAPHIES

APR 2012 496PP 978-1-1182-8152-9 PR TBA / 978-0-631-20784-9 CL €77.90



The Life of George Eliot

A Critical Biography

NANCY HENRY

University of Tennessee, USA

- ❖ Incorporating the very latest biographical research, this is an illuminating re-examination of the life of George Eliot
- ❖ Combines penetrating literary criticism of her fiction and poetry with biographical narrative
- ❖ Reveals how Eliot's life provides insight into her art, as well as how her art can inform our understanding of her life
- ❖ Includes original new interpretations of her work from multiple theoretical perspectives

READERSHIP: Undergraduate and graduate students of Victorian Literature or The Novel

SERIES: BLACKWELL CRITICAL BIOGRAPHIES

APR 2012 448PP 978-1-4051-3705-8 CL €77.90





A Said Dictionary

R. RADHAKRISHNAN

University of California, Irvine, USA

- ❖ This interpretive dictionary introduces the critical and theoretical world of literary and cultural critic, Edward W. Said
- ❖ Describes the crucial terms and concepts central to Said's work
- ❖ Compares and contrasts Said's perspective with other key theorists, such as Derrida, Spivak, Foucault, and Jameson
- ❖ Places the development of Said's work within its historical context

READERSHIP: Undergraduate and graduate students of English, Comparative Literature, Literary and Cultural Theory, Literary Criticism, Sociology, Anthropology, and Cultural Studies

APR 2012 192PP 978-1-4051-8377-2 PR €24.90 / 978-1-4051-8378-9 CL €65.90



Anglo-Saxon Keywords

ALLEN J. FRANTZEN

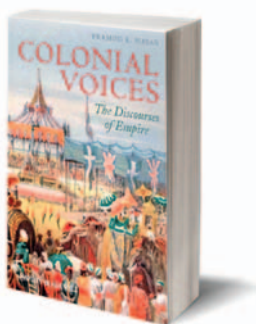
Loyola University Chicago, USA

- ❖ Comprises 75 essays on topics that connect modern ideas to core themes in medieval literature, language, and culture
- ❖ Reveals important links between central concepts of the Anglo-Saxon period and issues we think about today
- ❖ Explores a variety of subjects from medicine, diet, technology, war, identity, masculinity, and sex to social and literary history and the history of ideas
- ❖ Offers a richly theorized and cross-disciplinary approach

READERSHIP: Students and scholars of Medieval Literature and Culture

SERIES: KEYWORDS IN LITERATURE & CULTURE

APR 2012 352PP 978-0-470-65762-1 CL €89.90



Colonial Voices

The Discourses of Empire

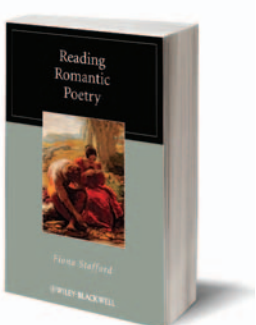
PRAMOD K. NAYAR

University of Hyderabad, India

- ❖ An engaging examination of European colonizers' representations of native populations in art, literature, historical writings, and medical treatises
- ❖ Surveys 400 years of India's history, from the 16th century to the end of the British Empire
- ❖ Demonstrates how colonial discourses naturalized the racial and cultural differences of the natives and how these discourses were as effective as military, economic and political means in subjugating native populations
- ❖ Draws on a wide variety of primary sources, including memoirs, letters, exhibition catalogues, administrative reports and travelogues

READERSHIP: Students and scholars of Colonial Literature and Culture, and the History of India

MAY 2012 256PP 978-1-4443-3856-0 CL €65.90



Reading Romantic Poetry

FIONA STAFFORD

University of Oxford, UK

- ❖ A clear, lively introduction to Romantic Poetry, exploring many of the major topics of the age
- ❖ Discusses the poets' own reading and experience of being read, as well as analysis of the sounds of key poems and the look of the poem on the page
- ❖ Deepens understanding of poems through awareness of their literary, historical, political and personal contexts
- ❖ Includes the major poets of the period-Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Burns and Clare - as well as a host of less familiar writers, including women

READERSHIP: Upper-level undergraduates, postgraduates, and faculty studying or teaching literature of the Romantic period

SERIES: READING ROMANTIC POETRY

APR 2012 256PP 978-1-4051-9155-5 CL €65.90

The Global Future of English Studies

JAMES F. ENGLISH

University of Pennsylvania, USA

- ❖ Presents a succinct, carefully documented assessment of the current state and future trajectory of English studies around the world
- ❖ Analyzes data on student enrollments, faculty hiring, and financing in English studies programs around the world
- ❖ Rejects prevailing narratives of contraction and decline that dominate histories of the discipline
- ❖ Stresses English studies' development within a rapidly expanding global academic apparatus, and the new challenges and opportunities such sudden and dispersive growth presents

READERSHIP: Upper-level students and researchers in English and Comparative Literature; educational historians; and general readers interested in education and globalization

SERIES: BLACKWELL MANIFESTOS

APR 2012 232PP 978-0-470-65494-1 CL €77.90

The Global Future of English Studies

The Hollywood Film Musical

BARRY KEITH GRANT

Brock University, Canada

- ❖ An accessible, scholarly synthesis of the critical literature on this central genre in film studies
- ❖ Provides an analysis of the cultural context of musicals, particularly the influence of popular music on the genre
- ❖ Delves into critical issues behind these films, such as race, gender, ideology, and authorship
- ❖ Features close readings of canonical and neglected film musicals from the 1930s to the present including: *Top Hat*, *Singin' in the Rain*, *Woodstock*, *Gimme Shelter*, *West Side Story*, and *Across the Universes*

READERSHIP: Students and scholars of Film, Media and Cultural Studies, American Studies, Popular Culture and Popular Music

SERIES: NEW APPROACHES TO FILM GENRE

APR 2012 176PP 978-1-4051-8252-2 PR €28.90 / 978-1-4051-8253-9 CL €71.90



A Companion to Early Cinema

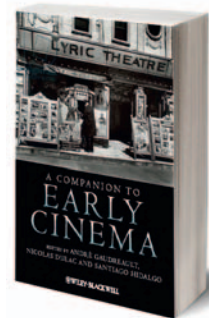
Edited by ANDRÉ GAUDREAU, NICOLAS DULAC & SANTIAGO HIDALGO

All of University of Montreal, Canada

- ❖ Features over 30 original essays from some of the leading scholars in early cinema and Film Studies, including Tom Gunning, Jane Gaines, Richard Abel, Thomas Elsaesser, and André Gaudreault
- ❖ Caters to renewed interest in film studies historical methods through strict analysis of multiple and competing sources, providing a critical re-contextualization of films, printed material and technologies
- ❖ Covers a range of topics in early cinema, such as exhibition, promotion, industry, pre-cinema, and film criticism
- ❖ Broaches the latest research on the subject of archival practices, important particularly in the current digital context

READERSHIP: Upper-level students and scholars of Film Studies, Early Cinema, Comparative Literature, and Film Archival Studies

MAY 2012 560PP 978-1-4443-3231-5 CL €155.00



A Companion to Spanish Cinema

Edited by JO LABANYI & TATJANA PAVLOVIĆ

New York University, USA; Tulane University, USA

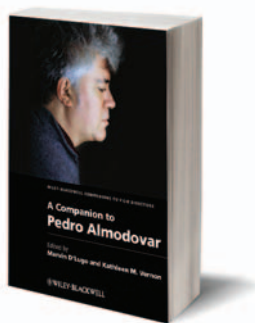
- ❖ An insightful and provocative collection of original research by leading international scholars from a variety of theoretical, disciplinary and geographical perspectives
- ❖ Combines a thorough and insightful study of a wide spectrum of topics and issues with in-depth textual analysis of specific films
- ❖ Explores Spanish cinema's cultural, artistic, industrial, theoretical and commercial contexts pre- and post-1975, and the notion of a national cinema
- ❖ Canonical directors and stars are examined alongside understudied directors, screenwriters, editors, and secondary actors

READERSHIP: Upper-level students and scholars of European Film and Film Theory, Cinema Studies and Spanish Culture and History

SERIES: WILEY-BLACKWELL COMPANIONS TO NATIONAL CINEMAS

APR 2012 552PP 978-1-4051-9438-9 CL €122.00





A Companion to Pedro Almodóvar

Edited by **MARVIN D'LUGO & KATHLEEN M. VERNON**

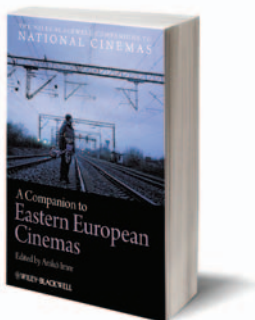
Clark University, USA; State University of New York at Stony-Brook, USA

- ✦ Brings together a stellar cast of contributors from across the globe to examine the themes, style, and aesthetics of the Spanish director's work and locate it in the context of the profound cultural transitions in Spain since 1980
- ✦ Features contributions by Spanish film historians, where studies of Almodóvar's work have been underrepresented in the academic literature
- ✦ Deploys new approaches to the analysis of film authorship by exploring contextual issues such as Almodóvar's transnational appeal and the political dimensions of his works
- ✦ Traces the director's fruitful collaborations in the areas of art and design, fashion, and music

READERSHIP: Upper-level undergraduates, graduates, and scholars of Hispanic, Film, and Cultural Studies courses

SERIES: WILEY-BLACKWELL COMPANIONS TO FILM DIRECTORS

MAY 2012 560PP 978-1-4051-9582-9 CL €122.00



A Companion to Eastern European Cinemas

Edited by **ANIKÓ IMRE**

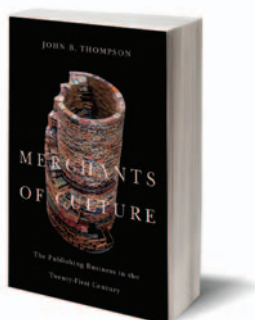
University of Southern California, USA

- ✦ Showcases critical historical work and original new assessments of post-socialist film cultures
- ✦ Considers lesser known areas of study, such as Albanian and Baltic cinemas, popular genre films, cross-national distribution and aesthetics, animation, and documentary
- ✦ Places the cinemas of the region in a European and global context
- ✦ Includes discussion of such films as *Taxidermia*, *El Perro Negro*, *12:08 East of Bucharest*, *Big Töll*, and *Breakfast on the Grass*, and explores the work of directors including Tamás Almási, Walerian Borowczyk, Roman Polanski, Jerzy Skolimowski, and Karel Vachek amongst many others

READERSHIP: Upper-level undergraduates, postgraduates, and scholars of Eastern European cinemas, media, or culture; and global, transnational, or regional cinemas

SERIES: THE WILEY-BLACKWELL COMPANIONS TO NATIONAL CINEMAS

MAY 2012 544PP 978-1-4443-3725-9 CL €142.00



Merchants of Culture

The Publishing Business in the Twenty-First Century

JOHN B. THOMPSON

University of Cambridge, UK

- ✦ This is the first major study of the book publishing industry in over 30 years
- ✦ It provides a thorough, in-depth analysis of what's happening in the world of trade publishing today, at a time of enormous change and uncertainty
- ✦ It is written in a very clear and engaging way and will appeal to anyone interested in books and their future, from general readers and authors to those who work in the publishing industry
- ✦ The author has established a reputation as a leading authority on the publishing industry and his previous book, *Books in the Digital Age*, has become a standard work on academic publishing

READERSHIP: Students and academics in sociology, media and cultural studies and publishing studies; interested general readers

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Media, Society, World

Social Theory and Digital Media Practice

NICK COULDRY

Goldsmiths, University of London, UK

- ✦ Major new contribution to media theory, considering the relationship between media and social theory
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- ✦ Pays particular attention to the need to understand digital media in relation to broader issues around society and power
- ✦ Draws on a broad range of examples to keep the theory accessible, including reality TV, celebrity culture and the role of media in political uprisings such as the Arab Spring

READERSHIP: Undergraduate and graduate students of media studies, the sociology of the media and cultural studies

JUN 2012 320PP 978-0-745-63921-5 PR €23.90 / 978-0-745-63920-8 CL €71.90

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YouTube

2nd Edition

JEAN BURGESS & JOSHUA GREEN

Queensland University of Technology, Australia; Undercurrent, USA

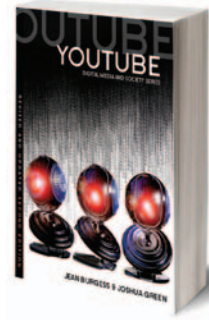
- ❖ Revised and updated second edition of a highly successful book on YouTube and its contexts
- ❖ This was the first book to take YouTube seriously as a media and cultural phenomenon
- ❖ The new edition reflects YouTube's maturity as a platform and includes more detailed coverage of its institutional and economic contexts
- ❖ Draws on a wide range of theoretical sources and empirical insights and is rich with concrete examples

READERSHIP: Students and scholars of new media, internet studies, media studies

SERIES: DIGITAL MEDIA AND SOCIETY

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Virilio and the Media

JOHN ARMITAGE

Northumbria University, UK

- ❖ Introduces cult hypermodern philosopher, Paul Virilio, specifically to students of media and cultural studies
- ❖ Presents an introduction to Virilio's important media related ideas, theories and concepts
- ❖ Positions Virilio's essential media texts in their theoretical contexts whilst outlining their substantial influence on recent cultural thinking
- ❖ The book closes with an annotated and user-friendly Guide to Further Reading and a non-technical Glossary of Virilio's significant concepts

READERSHIP: Undergraduate and graduate students, plus scholars, of media theory, new media, media and the city, war and media and other modules on which Virilio's work is likely to be encountered

SERIES: THEORY AND MEDIA

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The Great Accelerator

PAUL VIRILIO

École spéciale d'architecture, Paris, France

- ❖ An important new book by the world's leading theorist of technology, speed and power
- ❖ Virilio reflects on our preoccupation with speed, for example in the form of the speeding up of the markets of global finance - and on what happens when these high-tech systems break down
- ❖ Written in his distinctively brilliant and ironic style, this book continues Virilio's relentless probing of the obsessions of our contemporary civilization
- ❖ This book will be of great interest to students and scholars in social and cultural theory, media and cultural studies as well as the interested general reader

READERSHIP: Students and scholars in social and cultural theory, media and cultural studies

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What is Media Archaeology?

JUSSI PARIKKA

Winchester School of Art, UK

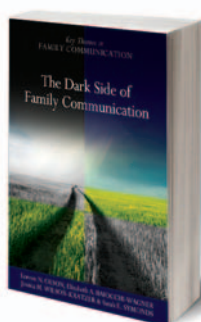
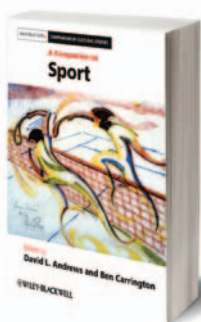
- ❖ First single authored introduction to an emergent area of media studies
- ❖ Media Archaeology is a hot topic which is principally concerned with providing more of a historical view of new media and technology
- ❖ This book lays out the key ideas, thinkers and examples to give readers an entry point to this complex area
- ❖ Parikka is one of the core researchers of this topic and a rising star in the field

READERSHIP: Advanced undergraduate and postgraduate students of media archaeology, new media theory and cultural studies as well as scholars and general readers interested in media and art histories

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SHANI ORGAD

London School of Economics, UK

- ❖ Part of Polity's new Global Media and Communication series
- ❖ Provides a cutting edge approach to the traditional topic of media representations by putting it under a global lens
- ❖ Considers how the media represents global others through issues such as conflict, disaster, migration and national identity
- ❖ Provides a blend of overview material and in depth examples which will make the book suitable for teaching from upper undergraduate level onwards

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- ❖ Includes both well-known social and cultural theorists whose work lends itself to an interrogation of sport, and leading theorists of sport itself
- ❖ Offers a comprehensive examination of sport as a social and cultural practice and institution
- ❖ Explores sport in relation to modernity, postcolonial theory, gender, violence, race, disability, and politics

READERSHIP: Upper-level undergraduates, postgraduates, and scholars of Sport and Leisure Studies, Sociology of Sport, Sport Management, Cultural Studies, and American Studies

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- ❖ Offers a sophisticated portrait of the public, and how it is realized, invoked, and understood in the museum context
- ❖ Includes relevant examples and discussions of how museums can engage with their publics in more complex, productive ways

READERSHIP: Undergraduates, postgraduates, and scholars in museum studies

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The Dark Side of Family Communication

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LOREEN N. OLSON, ELIZABETH A. BAIOCCHI, JESSICA M. WILSON-KRATZER &

SARAH E. SYMONDS

All at University of Missouri-Columbia, USA

- ❖ This is the first book to explore the communicative aspects of the darker side of family life
- ❖ The book offers an integrative understanding of the dark side of family communication and a theoretical mechanism for understanding related scholarship
- ❖ The authors use a holistic and theoretical approach that will be beneficial to both researchers and advanced students
- ❖ Designed as a textbook within Polity's Key Themes in Family Communication series

READERSHIP: Upper-level undergraduate and graduate students taking courses on family communication, dark side, interpersonal communication

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The Handbook of Global Health Communication

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- ❖ Links communication to the strengthening of health services, the involvement of communities in shaping health policies and improving care, and the empowerment of citizens in making decisions about health
- ❖ Adopts a broad understanding of communication that goes beyond conventional divisions between informational and participatory approaches

READERSHIP: Upper-level undergraduates, postgraduates, and scholars of Communication, Health Communication, Public Health, Health Policy, International Development, and Social Change

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

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The Handbook of Global Media Research

Edited by **INGRID VOLKMER**

University of Melbourne, Australia

- ❖ Showcases the perspectives and ideas of 30 internationally acclaimed scholars exploring the key themes and competing methodological approaches in a dynamic and developing field
- ❖ Posits transnational media research as reflective of advanced globalization processes, and explores the role and responsibility this bestows it with
- ❖ Offers a platform for the discussion of crucial issues from a variety of theoretical, methodical and practical viewpoints

READERSHIP: Undergraduates, postgraduates and scholars of Media and Communication, International Communication, Journalism, Political Communication and Media Sociology

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

MAY 2012 600PP 978-1-4051-9870-7 CL €155.00



Why Love Hurts

A Sociological Explanation

EVA ILOUZ

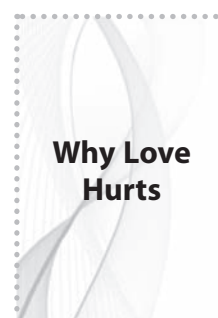
The Hebrew University of Jerusalem, Israel

- ❖ A new book by the award-winning sociologist Eva Illouz on modern love
- ❖ Sets out to explain why love is such a painful experience for many people - why we invest so much in the search for love and why it so often disappoints us
- ❖ She gives a persuasive answer to this question by showing how love, and the hopes, expectations and desires associated with it, are shaped by broader social relations, institutions and forms of power
- ❖ This is a brilliant, original and beautifully written book aimed at and accessible to a general reader

READERSHIP: Students and scholars in sociology and the social sciences and humanities generally, and interested general readers

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On Education

Conversations with Riccardo Mazzeo

ZYGMUNT BAUMAN & RICCARDO MAZZEO

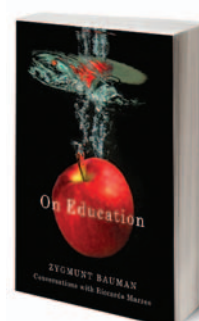
Universities of Leeds and Warsaw

- ❖ This is an engaging new book from one of the most influential and widely read sociologists in the world today
- ❖ Bauman, in conversation with Riccardo Mazzeo, reflects on the nature and role of education and on the predicament of young people in our contemporary, liquid-modern world
- ❖ What role should educators play in a world where young people find themselves faced with deep uncertainty about their future
- ❖ This book will appeal to anyone involved in teaching and education and to a wide audience of general readers interested in current affairs

READERSHIP: First year students and above in sociology, politics, media and cultural studies; interested general readers

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Trauma

A Social Theory

JEFFREY C. ALEXANDER

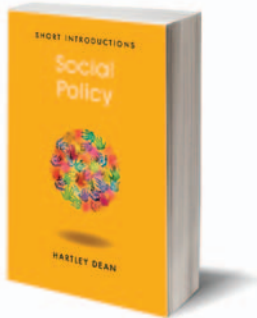
Yale University, USA

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- ✦ This is a new, original social theory of trauma by one of the world's leading social theorists
- ✦ Argues that traumas are not merely psychological but collective experiences and that they play a key role in defining the origins and outcomes of critical social conflicts
- ✦ Draws on various case studies, from the Holocaust and post-colonial battles to the traumatic events of September 11
- ✦ This compelling volume will appeal to advanced undergraduates, graduate students and scholars in sociology, politics, media and cultural studies as well as the general reader

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Social Policy

2nd Edition

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London School of Economics, UK

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- ✦ Insightfully discusses a range of issues, from healthcare and employment to less tangible but equally vital factors such as wellbeing and emotional security
- ✦ An ideal introduction for sixth form and university students exploring the field for the first time

READERSHIP: Sixth form and undergraduate students of social policy, along with some graduate students coming to the subject for the first time

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Love and Justice as Competences

Three Essays in the Sociology of Critical Society

LUC BOLTANSKI

École des hautes études en sciences sociales, Paris, France

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- ✦ A major new book by one of the world's leading sociologists
- ✦ Forms the basis for the path-breaking work that Boltanski has developed over the past 20 years, work that has examined the moral foundations of society in and through the forms of everyday conflict
- ✦ Analyses regimes of justice and regimes of love that are implicit in everyday social life, and examines the capacity for violence that arises when these regimes break down
- ✦ This cutting-edge book will be of great interest to advanced students and scholars in sociology and the social sciences and anyone concerned with what a critical sociology means today

READERSHIP: Graduate students and academics in sociology and the social sciences

APR 2012 328PP 978-0-745-64910-8 PR €24.90 / 978-0-745-64909-2 CL €71.90



Evil

MICHEL WIEVIORKA

École des hautes études en sciences sociales, Paris, France

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- ✦ A major new book on the present-day forms of evil, terrorism, violence, racism and hatred
- ✦ Rather than treating evil as a supernatural force or a religious issue, Wieviorka analyses it from a sociological point of view, showing how these various forms of evil are constituted in day-to-day life
- ✦ The author draws on his research into these forms of evil in order to develop a fresh approach to understanding the darker regions of human behaviour
- ✦ This book will appeal to students and scholars as well as professionals such as social workers and general readers keen to understand the human production of inhuman conduct

READERSHIP: Students and scholars of sociology

MAY 2012 160PP 978-0-745-65393-8 PR €20.90 / 978-0-745-65392-1 CL €65.90

Green Social Work

From Environmental Crises to Environmental Justice

LENA DOMINELLI

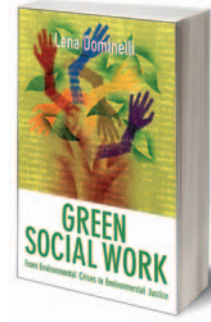
Durham University, UK

- ❖ Compelling new book that presents a new social work perspective on environmental issues
- ❖ Argues that if social work's mission is to enhance people's well-being, then environmental issues have to be dealt with head-on
- ❖ Offers an optimistic solution to enhance the lives of marginalized communities by engaging with environmental issues under the auspices of 'green social work'
- ❖ Written by a respected and provocative world-leading social work academic

READERSHIP: Students on professional/qualifying undergraduate and postgraduate social work courses, as well as upper-level students of development, environmental policy and practice, and environmental justice

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Consumption and Its Consequences

DANIEL MILLER

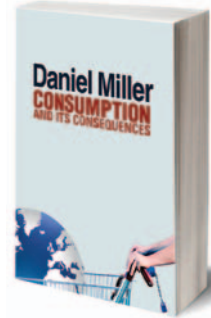
University College London, UK

- ❖ A new book by one of the world's leading anthropologists and a leading figure in the study of material culture
- ❖ Brings together Miller's key writings on consumption, consumer capitalism and related topics
- ❖ The sequel to Miller's highly successful *Stuff*
- ❖ This book will be of great interest for students and scholars in anthropology, sociology and cultural studies as well as the interested general reader

READERSHIP: Students and scholars in anthropology, sociology and cultural studies

JUN 2012 208PP 978-0-745-66108-7 PR €20.90 / 978-0-745-66107-0 CL €65.90

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Drugs and the American Dream

An Anthology

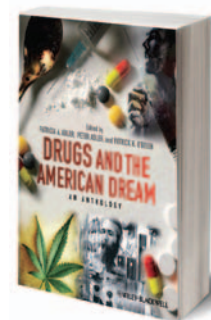
Edited by Patricia A. Adler, Peter Adler & Patrick K. O'Brien

University of Colorado, Boulder, USA; University of Denver, USA; University of Denver, USA

- ❖ Features a unique approach to the subject, organizing topics around sociological concepts including age, social class, ethnicity, and gender, as well as societal response to drug use
- ❖ Includes a wide array of ethnographic articles that place readers directly into the perspectives of drug users through their own voices
- ❖ Provides framing introductions to each article, guiding the student to the heart of what's important in the piece that follows
- ❖ Offers a balanced approach to various substances, including tobacco, alcohol, prescription drugs, and illegal drugs

READERSHIP: Undergraduate-level students studying criminology; criminal justice programs on drugs and society, sociology, social policy, health studies, and related courses

FEB 2012 432PP 978-0-470-67027-9 PR TBA



Live Sociological Methods

Edited by LES BACK & NIRMAL PUWAR

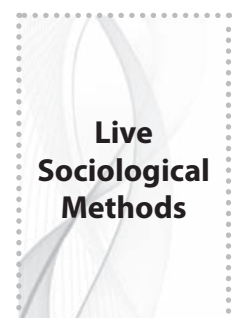
Both of Goldsmiths, University of London, UK

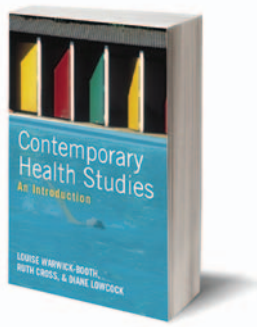
- ❖ A study of live methods including experimentation, attentiveness, collaboration, multi-media platforms, public sociology, the game of social life and research, idiotic methods, scavenging, mapping and topologies
- ❖ Global in scope and inter-woven by theoretical and methodological considerations
- ❖ Includes research from the Methods Lab at Goldsmiths University, which is committed to developing inventive ways of 'doing sociology'
- ❖ Studies the practice of sociological imagination, the aim of which is to make social research responsive to social life - to bring it alive

READERSHIP: Academics, researchers and graduates within sociology

SERIES: SOCIOLOGICAL REVIEW MONOGRAPHS

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Contemporary Health Studies

An Introduction

LOUISE WARWICK-BOOTH, RUTH CROSS & DIANE LOWCOCK

All of Leeds Metropolitan University, UK

- ❖ A highly accessible introduction to all aspects of current debates surrounding the social-scientific dimensions of health
- ❖ Divided into three easily navigable sections, mapping out the field, examining its disciplinary underpinnings, and then focusing on specific determinants of health
- ❖ Rich with pedagogical features, with each chapter organized around specific learning outcomes, questions and case studies
- ❖ Fully illustrated with tables, figures and photographs, plus a companion website

READERSHIP: Undergraduate students taking courses in health studies and public health; there will also be a market amongst nurses, medical students and allied health care professionals more generally

APR 2012 375PP 978-0-745-65022-7 PR €25.90 / 978-0-745-65021-0 CL €83.90

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- ❖ The latest title in Polity's 'Resources' series, offering highly engaging and readable primers on the political issues surrounding some of the world's most vital natural resources
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- ❖ Identifies a new geopolitics of oil, with an attendant need for global oil governance
- ❖ Will be essential reading for students across the social sciences, as well as anyone with an interest in current affairs

READERSHIP: Students of politics, geography, environmental studies and general readers interested in current affairs

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JUN 2012 200PP 978-0-745-64926-9 PR €16.90 / 978-0-745-64925-2 CL €51.90

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Israel/Palestine

3rd Edition

ALAN DOWTY

Professor Emeritus of University of Notre Dame, USA and former Kahanoff Chair of Israel Studies at the University of Calgary, Canada

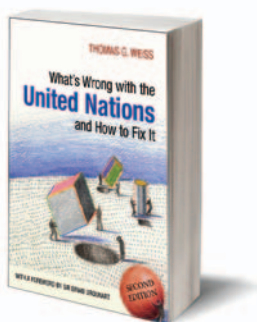
- ❖ A fully revised and updated new edition of Alan Dowty's authoritative account of the Israel / Palestine conflict
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- ❖ Charts the history of the UN through to the present day, documenting its failure to adapt to contemporary conflicts and the post 9-11 world
- ❖ The book is divided into two halves, analysing the structural and organizational problems of the UN, and then setting out a program of changes
- ❖ Will be essential reading for students of politics and international relations, as well as anyone with an interest in the changing roles of intergovernmental institutions

READERSHIP: Students of politics, international relations, security studies and human rights

SERIES: WHAT'S WRONG?

APR 2012 320PP 978-0-745-65983-1 PR €20.90 / 978-0-745-65982-4 CL €65.90

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Demobilizing Irregular Forces

ERIC SHIBUYA

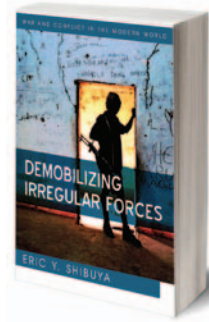
US Marines Corps Command and Staff College

- ❖ This is a new addition to Polity's bestselling 'War and Conflict in the Modern World' series, which aims to give students accessible overviews of some of the key themes and topics in peace and security studies
- ❖ DDR, the disarmament, demobilization and reintegration of ex-combatants is a crucial and topical issue in today's political landscape
- ❖ The book draws on a wide range of case studies to guide readers through the stages of the DDR process
- ❖ Will be of relevance to students taking broad courses in peacebuilding or focusing on more specific conflicts such as those in Afghanistan and Iraq

READERSHIP: Students of politics, security, peace and conflict studies

SERIES: WAR AND CONFLICT IN THE MODERN WORLD

JUN 2012 208PP 978-0-745-64886-6 PR €17.90 / 978-0-745-64885-9 CL €57.90



Global Health Governance

JEREMY YOUNG

University of Minnesota, Duluth, USA

- ❖ In today's globalized world, international cooperation is essential if health problems are to be governed effectively
- ❖ This is a comprehensive introduction to the subject, guiding readers through the evolution and current structure of international health governance
- ❖ Examines the key governmental and non-governmental actors, as well as surveying the most pressing problems facing health governance today
- ❖ This book will be essential reading for students of global health politics, global governance, international organization, and human security

READERSHIP: Upper-division students of political science, globalization, public health and related fields

APR 2012 240PP 978-0-745-65309-9 PR €21.90 / 978-0-745-65308-2 CL €71.90



Power in the Changing Global Order

The US, Russia and China

MARTIN A. SMITH

Royal Military Academy, Sandhurst, UK

- ❖ This book provides an engaging and accessible introduction to the shifting dynamics of power in the contemporary world
- ❖ Draws on international relations, philosophy and sociology to outline a sophisticated theory of the social dimensions of power
- ❖ Gives an expert account of the changing status of the US, Russia and China since the end of the Cold War
- ❖ Will be essential reading for students of international relations, as well as anyone with an interest in global politics

READERSHIP: Students of politics and international relations

MAY 2012 232PP 978-0-745-63472-2 PR €21.90 / 978-0-745-63471-5 CL €71.90



International Mediation

J. MICHAEL GREIG & PAUL DIEHL

University of North Texas, USA; University of Illinois at Urbana-Champaign, USA

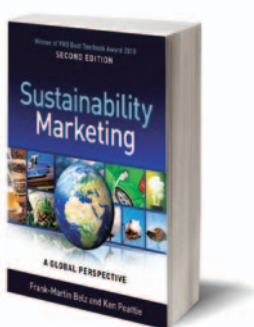
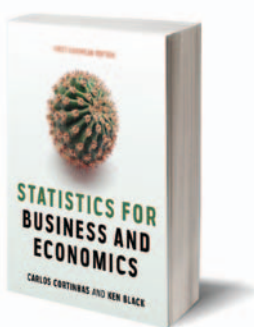
- ❖ An accessible and comprehensive guide to international mediation for students, practitioners and general readers
- ❖ Provides an empirically rich history of post World War II mediation
- ❖ Draws on a wide range of compelling examples, from the Oslo Accords to civil conflict in Bosnia
- ❖ Examines the complex roles played by mediators, and the balance between self-interest and altruism in determining which conflicts are mediated

READERSHIP: Students of peace and security studies, conflict management and international politics, as well as those working in NGOs and think-tanks

SERIES: WAR AND CONFLICT IN THE MODERN WORLD

MAY 2012 208PP 978-0-745-65331-0 PR €16.90 / 978-0-745-65330-3 CL €51.90





Accounting

8th Edition

JOHN HOGGETT, JOHN MEDLIN, LEW EDWARDS, MATTHEW TILLING & EVELYN HOGG

Consultant; University of South Australia; Queensland University of Technology; Notre Dame University; Notre Dame University

- ❖ Features clear, comprehensive and easy-to-follow explanations of accounting processes
- ❖ All chapters have been updated to include latest AIFRS/IFRS accounting standards and the latest changes in Conceptual Framework
- ❖ Extensive end-of-each chapter activities include discussion questions, exercises, problems and case studies
- ❖ The book's attractive four-colour design provides students with a more reader-friendly text, enhancing their understanding of concepts and ensuring learning outcomes are achieved

READERSHIP: Lecturers and students studying Introductory Accounting at undergraduate and postgraduate level

NOV 2011 1152PP 978-1-7424-6635-4 PR €65.90

Company Accounting

9th Edition

KEN J. LEO, JOHN HOGGETT, & JOHN SWEETING

- ❖ Provides students with a comprehensive and practical grounding in the principles of company accounting
- ❖ Thoroughly updated to reflect the various and ongoing reforms resulting from the adoption of IFRS
- ❖ Presents essential 'must know' information on accounting for a corporate entity and the requirements for externally disclosing the financial position of the entity
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READERSHIP: Accounting lecturers and students

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Statistics for Business and Economics

First European Edition

CARLOS CORTINHAS & KEN BLACK

University of Exeter, UK; University of Houston, TX, USA

- ❖ Features thorough, down-to-earth explanations, along with examples to which students can easily relate
- ❖ Every chapter contains "Decision Dilemma" cases; "Ethical Consideration" boxes; and "Statistics in Business Today" features
- ❖ Includes nearly 2,000 problems created from business scenarios with real data information and 17 videos by Ken Black explaining many of the more difficult concepts and how to work problems
- ❖ An Excel manual will accompany the text, helping students master the necessary calculations so they can then focus on interpretation and decision making

READERSHIP: Undergraduate students taking introductory courses in Statistics for Business, Management and Economics

MAR 2012 768PP 978-1-1199-9366-7 PR €65.90

Sustainability Marketing

A Global Perspective

2nd Edition

FRANK-MARTIN BELZ & KEN PEATTIE

Technical University of Munich, Germany; Cardiff University, UK

- ❖ Builds on the success of the 1st Edition by continuing to focus on different levels and disciplines of sustainability marketing including marketing, business and sustainability or environmental management
- ❖ Shows how the complexities of sustainability issues can be integrated into marketing decisions through a systematic step-by-step approach
- ❖ All chapters include learning objectives, discussion questions, and illustrative cases, simple examples and research data from many different countries
- ❖ Includes a comprehensive package of online materials and an accompanying author blog: www.sustainability-marketing.com

READERSHIP: Students and practitioners at many different levels and disciplines including marketing, business and sustainability or environmental management

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Marketing

2nd Edition

GREG ELLIOTT, SHARYN RUNDLE-THIELE & DAVID WALLER

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- ❖ Builds on the strengths of the popular 1st edition and includes an extensive accompanying digital resource package designed to engage students in the study of marketing
- ❖ Features a diverse range organisations, goods and services from Australia, New Zealand and the Asian region to illustrate key concepts, coupled with detailed coverage of the latest marketing theory, research and thinking
- ❖ Provides a thorough analysis of contemporary marketing and is an essential guide to best practice

READERSHIP: Undergraduate Students taking Introductory Marketing courses; lecturers

OCT 2011 640PP 978-1-7424-6721-4 PR €93.90



Fundamentals of Database Management Systems

2nd Edition

MARK L. GILLENSON

University of Memphis

- ❖ Designed to be a compact, practical introduction that is virtually self-teaching
- ❖ Provides a clear understanding of the fundamentals and a broad survey of all of the major topics in the field with the goal that students will be able to immediately apply what they've learned on the job
- ❖ Revised and updated content includes more coverage on database control issues and new coverage on data quality issues
- ❖ Features a new pedagogical structure for each chapter, starting with an explanation of the concept, then an example, and finally a 'Your Turn' box where students apply the concept to their own projects

READERSHIP: Business professionals working with databases; students studying Information Systems

DEC 2011 416PP 978-0-470-62470-8 CL €61.90



Handbook of Volatility Models and Their Applications

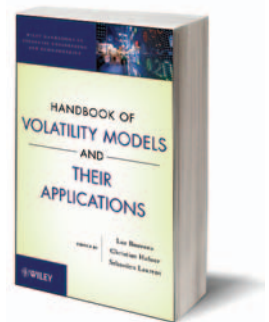
LUC BAUWENS, CHRISTIAN M. HAFNER & SEBASTIEN LAURENT

- ❖ The book is written and edited by well-known, international experts in the field
- ❖ The scope of the content is wider – and deeper – than any known competitor, including unique topics such as GARCH-family models, jumps in volatility and spillover effect (or contagion) in volatility, and model comparisons between different volatility models
- ❖ The material is organized around different classes of volatility models
- ❖ Extensive case studies and problems exhibit the real-world relevance of the discussed topics and methods

READERSHIP: As a handy, but complete reference for practitioners in the fields of finance, business, applied statistics, econometrics, and engineering and for libraries in academic and corporate (including government) settings; as a supplement to courses on risk management and volatility in similar departments and business schools at the graduate and MBA level

SERIES: WILEY HANDBOOKS IN FINANCIAL ENGINEERING AND ECONOMETRICS

JUN 2012 512PP 978-0-470-87251-2 CL €132.00



Financial Risk Management

RAJEEVA KARANDIKAR & TAPEN SINHA

- ❖ Examines financial risk management using R and Excel
- ❖ Explores option pricing basics covering European, American, and exotic options with examples
- ❖ Discusses the merits of VaR and CvaR/TVaR and how they are used in risk management
- ❖ Explains how to deal with fat tailed distributions, focusing on the notion of copula in a multivariate setting
- ❖ Regulatory features of Basel II are presented

READERSHIP: Practitioners and analysts in banking and insurance constructing financial models; academics interested in research in this field, looking for techniques developed in response to real world problems

SERIES: STATISTICS IN PRACTICE

MAY 2012 416PP 978-0-470-68462-7 CL €77.90



Statistical Methods in Customer Relationship Management

Statistical Methods in Customer Relationship Management

VIBA KUMAR & ANDREW PETERSEN

Georgia State University, Atlanta; University of North Carolina

- ❖ Presents an overview of a customer relationship management (CRM) system, introducing key concepts and metrics needed to understand and implement CRM models
- ❖ Focuses on five CRM models: customer acquisition, customer retention, customer churn, and customer win back with supported case studies
- ❖ Explores each model in detail, from investigating the need for CRM models to looking at the future of the models
- ❖ Presents models and concepts that span across the introductory, advanced, and specialist levels

READERSHIP: Academics and practitioners interested and/or involved in the area of CRM as well as instructors of applied statistics and quantitative marketing courses; graduate students specializing in marketing, statistics and business as well as business consulting firms

MAY 2012 352PP 978-1-1199-9320-9 CL €77.90



Is China Buying the World?

polity

PETER NOLAN

University of Cambridge, UK

- ❖ A new book, written by a leading international expert on China and the global economy, which examines the widely-held belief that China is buying the world
- ❖ Nolan carefully examines the evidence on China's activities in the global marketplace, and argues persuasively that the idea that China is buying the world is a groundless myth
- ❖ This book provides a much-needed balanced perspective on current debates about China's growing power and contributes to a constructive dialogue between China and the West
- ❖ This short and carefully argued book will be of great interest to students in economics, business studies, international relations and the general reader interested in China's rise as a global economic powerhouse

READERSHIP: General readers with an interest in China, banking, finance and the global economy; students in economics, finance, politics, sociology and the social sciences generally.

MAY 2012 120PP 978-0-745-66078-3 CL €21.90

The Children of Eve

The Children of Eve

Population and Well-being in History

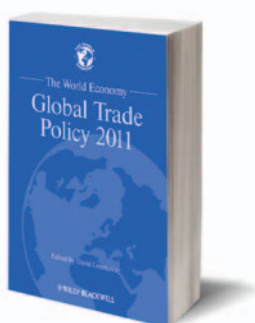
LOUIS P. CAIN & DONALD G. PATERSON

Northwestern University, USA; University of British Columbia, Canada

- ❖ Presents a world history of demographic and economic change that ranges broadly over time and space and which emphasizes the commonality of human experience
- ❖ The first book to bring together material about population and well-being in a single volume
- ❖ Emphasizes the formative population history of Europe and North America over the years since the Middle Ages, and includes discussions of Asia and the southern hemisphere
- ❖ Addresses complex issues in a style that doesn't over-simplify the subject, whilst upholding an approach that is accessible to general readers and students

READERSHIP: Students of world economic history, North American and European economic history, and economic demography

FEB 2012 392PP 978-1-4443-3690-0 PR €25.90 / 978-1-4443-3689-4 CL €61.90



The World Economy

Global Trade Policy 2011

Edited by DAVID GREENAWAY

University of Nottingham, UK

- ❖ The eighteenth volume in an annual series in which leading economists provide a concise and accessible evaluation of major developments in trade and trade policy
- ❖ Examines key issues pertinent to the multinational trading system, as well as regional trade arrangements and policy developments at the national level
- ❖ Provides up-to-date assessments of the World Trade Organization's current Trade Policy Reviews
- ❖ Includes chapters exploring WTO issues, and regional trading agreements

READERSHIP: Academics, researchers and upper level students of international economics; agencies, researchers, analysts and policy-advisors

SERIES: WORLD ECONOMY SPECIAL ISSUES

MAR 2012 304PP 978-1-4443-6700-3 PR €25.90

Economic Policy 70

Edited by GEORGES DE MENIL, RICHARD PORTES, HANS-WERNER SINN, TULLIO JAPPELLI, PHILIP LANE, PHILIPPE MARTIN & JAN VAN OURS

Delta ENS, France; London Business School, UK; University of Munich, Germany; University of Naples, Italy; Trinity College Dublin, Ireland; Université de Paris 1 Panthéon-Sorbonne, PSE, France; Tilberg University, USA

- ❖ Brings together a team of leading economists to provide a concise and accessible evaluation of major developments in trade and trade policy
- ❖ Papers are specially commissioned from first-class economists and experts in the policy field
- ❖ Each paper is discussed by a panel of distinguished economists
- ❖ Features a unique approach guaranteed to provoke incisive debate and alternative interpretations of the evidence

READERSHIP: Advanced-level undergraduates, postgraduates, and faculty within economics; economists and international economic agencies

SERIES: ECONOMIC POLICY

APR 2012 288PP 978-1-4443-5097-5 PR €32.90



Financial Statistics and Mathematical Finance

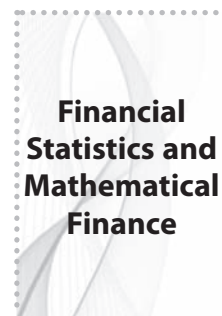
Methods, Models and Applications

A. STELAND

- ❖ Provides an introduction to the basics of financial statistics and mathematical finance
- ❖ Explains the use and importance of statistical methods in econometrics and financial engineering
- ❖ Illustrates the importance of derivatives and calculus to aid understanding in methods and results
- ❖ Looks at advanced topics such as martingale theory, stochastic processes and stochastic integration

READERSHIP: Graduate students and researchers in statistics, finance, econometrics and business administration; graduate students and researchers in financial engineering and computer science

JUL 2012 352PP 978-0-470-71058-6 CL €71.90



Hospitality Law

Managing Legal Issues in the Hospitality Industry
4th Edition

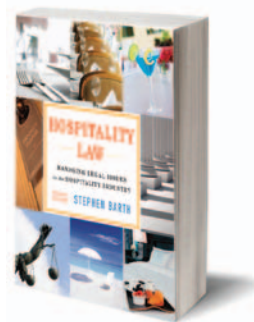
STEPHEN C. BARTH

Attorney & Founder, Hospitalitylawyer.com; Conrad N. Hilton College of Hotel and Restaurant Management; University of Houston

- ❖ Fully updated and revised to include information on relevant recent events and trends, such as the impact of recent economic collapse on hotel developments
- ❖ Updated, real-world legal case summaries illustrate the practical application of hospitality laws in hospitality operations
- ❖ Updated "International Snapshots" offer insights from practicing attorneys and other professionals regarding the differences between U.S. and international laws related to hospitality
- ❖ Strong pedagogical features - opening vignettes, chapter objectives, integrated legal definitions, situational exercises, web exercises and extensive end of chapter materials provide readers with a solid base to learn how to make effective decisions in a hospitality operation

READERSHIP: Students studying hospitality law and hospitality professionals looking for a practical guide to legally managing a hospitality operation

NOV 2011 512PP 978-1-1180-8563-9 CL €57.90



Material Worlds

Intersections of Law, Technology and Society

Edited by ALEX FAULKNER & CHRISTOPHER LAWLESS

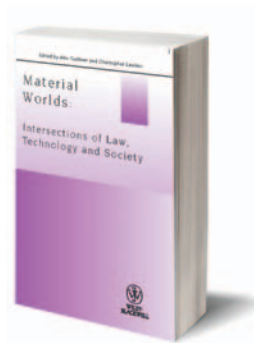
King's College London, UK; University of Edinburgh, UK

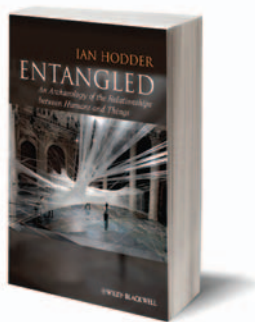
- ❖ A theoretically innovative book exploring the intersections between law and materiality
- ❖ Offers new perspectives on a variety of high profile controversial subjects, including climate change, public health, genetics, crime, biomedical technology
- ❖ Investigates the futures of both the sociology of law and the study of science and technology
- ❖ Illuminates relationships between transnational regulation and local practices, and the relation between social agency and material worlds

READERSHIP: Academic researchers and faculty in science and technology studies, socio-legal studies, law, policy studies, politics, sociology

SERIES: JOURNAL OF LAW AND SOCIETY SPECIAL ISSUES

APR 2012 200PP 978-1-4443-6152-0 PR €25.90





Entangled

An Archaeology of the Relationships between Humans and Things

IAN HODDER

Stanford University, USA

- ❖ Presents a powerful and innovative argument that demonstrates how humans and societies are entrapped into the maintenance of material worlds
- ❖ Written by influential archaeologist Ian Hodder who discusses how archaeological evidence can help us to understand the direction of human social and technological change
- ❖ Integrates aspects of a diverse array of contemporary theories in archaeology and related natural and biological sciences
- ❖ Provides a critical review of many of the key contemporary perspectives from materiality, material culture studies and phenomenology to evolutionary theory, behavioral archaeology, cognitive archaeology, human behavioral ecology, Actor Network Theory and complexity theory

READERSHIP: Archaeology students and scholars at all levels, especially those taking archaeological theory and methods classes; students and scholars in anthropology and material culture

APR 2012 264PP 978-0-470-67212-9 PR TBA / 978-0-470-67211-2 CL TBA



A Companion to Chinese Archaeology

Edited by ANNE P. UNDERHILL

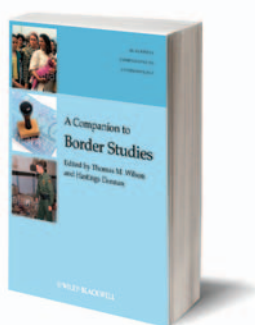
Yale University, USA

- ❖ An unprecedented collection of original contributions from international scholars and collaborative archaeological teams conducting research on the Chinese mainland and Taiwan
- ❖ Makes available for the first time in English the work of leading archaeologists in China
- ❖ Provides a comprehensive view of research in key geographic regions of China
- ❖ Offers diverse methodological and theoretical approaches to understanding China's past, beginning with the era of established agricultural villages from c. 7000 B.C. through to the end of the Shang dynastic period in c. 1045 B.C.

READERSHIP: Undergraduate and graduate level students for courses in Archaeology in China; archaeologists specializing in the development of social complexity in other world areas who want to learn more about China

SERIES: BLACKWELL COMPANIONS TO ANTHROPOLOGY

JUN 2012 576PP 978-1-4443-3529-3 CL €142.00



A Companion to Border Studies

Edited by THOMAS M. WILSON & HASTINGS DONNAN

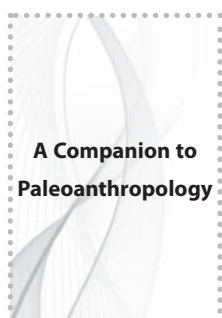
Binghamton University, USA; Queen's University Belfast, UK

- ❖ A collaborative, comparative and multi-disciplinary account of Border Studies, bringing together insights from anthropology, development studies, geography, history, political science and sociology
- ❖ Explores how nations and cultural identities are being transformed by their dynamic, shifting borders where mobility is sometimes facilitated, other times impeded or prevented
- ❖ Offers an array of international views which together form an authoritative guide for students, instructors and researchers
- ❖ Reflects recent significant growth in the importance of understanding the distinctive characteristics of borders and frontiers, including cross-border cooperation, security and controls, migration and population displacements, hybridity, and transnationalism

READERSHIP: Graduate students and scholars of Border Studies in all social sciences and humanities, particularly Anthropology, Geography, Sociology, Political Science and History

SERIES: BLACKWELL COMPANIONS TO ANTHROPOLOGY

APR 2012 576PP 978-1-4051-9893-6 CL €155.00



A Companion to Paleoanthropology

Edited by DAVID R. BEGUN

University of Toronto, Canada

- ❖ Represents an accessible state-of-the-art summary of the entire field of paleoanthropology - the study of ancient humans as found in fossil hominid evidence such as bones and footprints
- ❖ Features articles on the key discoveries in ape and human evolution, in cranial, postcranial and brain evolution, growth and development
- ❖ Surveys the breadth of the paleontological record from primate origins to modern humans
- ❖ Highlights the unique methods and techniques of paleoanthropology, including dating and ecological methods, and the use of living primate data to reconstruct behaviour in fossil apes and humans

READERSHIP: Upper level undergraduate and graduate level students for courses on paleoanthropology (Human Evolution, Paleoanthropology, Human Origins, etc. and in Archaeology); also for teachers in human biology, researchers in other disciplines and general audiences interested in human evolution

SERIES: BLACKWELL COMPANIONS TO ANTHROPOLOGY

JUL 2012 576PP 978-1-4443-3116-5 CL €142.00

A Companion to Moral Anthropology

Edited by **DIDIER FASSIN**

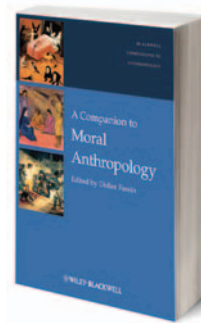
Institute for Advanced Study, Princeton University, USA

- ❖ The first collective consideration of the anthropological dimensions of morals, morality, and ethics
- ❖ Examines topics such as the ethnography of moralities, the study of moral subjectivities, and the exploration of moral economies
- ❖ Features contributions from pioneers in the field of moral anthropology, as well as international experts in related fields such as moral philosophy, moral psychology, evolutionary biology and neuroethics

READERSHIP: Undergraduate and graduate level students for courses in anthropology, sociology, law, moral philosophy, moral psychology, and cognitive science

SERIES: BLACKWELL COMPANIONS TO ANTHROPOLOGY

MAY 2012 576PP 978-0-470-65645-7 CL TBA



Annals of Anthropological Practice

HIV/AIDS and Food Insecurity in sub-Saharan Africa: Challenges and Solutions

Edited by **SATISH KEDIA & DAVID HIMMELGREEN**

University of Memphis, USA; University of South Florida, USA

- ❖ Collection of 14 chapters brings together a wide array of applied anthropologists, other social scientists, and practitioners
- ❖ Details the ways in which public health measures can be effectively integrated with HIV/AIDS prevention, anti-retroviral treatment, and food security efforts in sub-Saharan Africa
- ❖ Part of the NAPA Bulletin Series by The National Association for the Practice of Anthropology - dedicated to the practical problem-solving and policy applications of anthropological knowledge and methods

READERSHIP: Students and lecturers on applied and practicing anthropology courses, researchers and practitioners in the field

SERIES: NAPA BULLETIN

OCT 2011 200PP 978-1-4443-6155-1 PR €16.90



Science in the 20th Century and Beyond

JON AGAR

University College London, UK

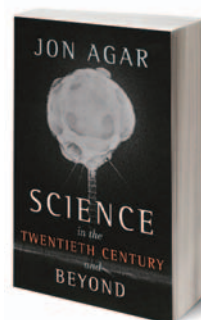
- ❖ Much-needed overview of the history of science from 1900 to the present day
- ❖ Emphasises the crucial part that science has played in the bigger picture of twentieth century history, from Einstein's new physics to the Human Genome Project
- ❖ Considers the interplay between science and the political world
- ❖ Weaves together a wealth of recent scholarship into a vibrant, highly accessible synthesis

READERSHIP: Undergraduate and postgraduate students of the history of science and technology; general readers interested in twentieth century history

SERIES: HISTORY OF SCIENCE

MAR 2012 612PP 978-0-745-63469-2 CL €38.90

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The Night of Broken Glass

Eyewitness Accounts of Kristallnacht

Edited by **UTA GERHARDT & THOMAS KARLAUF (eds.)**

Heidelberg University, Germany

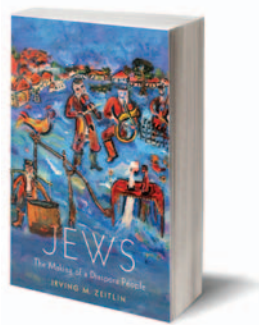
- ❖ A unique and disturbing document that presents eyewitness accounts of one of the most harrowing events in Nazi Germany, Kristallnacht
- ❖ The testimonials paint a chilling picture of the everyday violence encountered by thousands of Jews in one of Europe's darkest moments
- ❖ Published for the very first time in English, with a foreword by Saul Friedländer, the Pulitzer Prize-winning historian and Holocaust survivor
- ❖ This book will be of great interest to anyone keen to learn more about modern history, Nazi Germany and the historical experience of the Jews

READERSHIP: General readers; anyone interested in the Holocaust and the Nazi period

JUN 2012 360PP 978-0-745-65084-5 CL €25.90

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Jews: The Making of a Diaspora People

polity

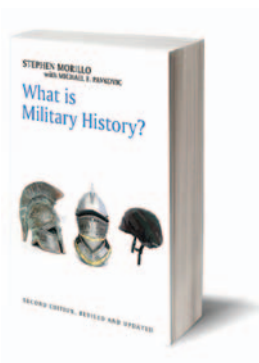
IRVING M. ZEITLIN

Professor Emeritus, University of Toronto, Canada

- ❖ A groundbreaking new study by a leading scholar on the history of the Jews and the process by which they became a diaspora people
- ❖ Wide-ranging in scope, from the expulsion of Jews from their ancestral homeland in the ancient world to the 'Final Solution' and the Israeli-Palestinian conflict
- ❖ Argues that the Jews' religious self-understanding enabled them to cope with the serious and recurring challenges that they have faced throughout the centuries
- ❖ Examines the reactions by so-called 'host peoples' to the Jews and analyses the attitudes of famous thinkers such as Luther, Nietzsche, Voltaire, Marx and others

READERSHIP: Students and scholars in sociology, history, religious studies, Jewish studies, interested general readers

MAR 2012 286PP 978-0-745-66017-2 PR €23.90 / 978-0-745-66016-5 CL €71.90



What is Military History?

2nd Edition

STEPHEN MORILLO & MICHAEL PAVKOVIC

Wabash College, USA; United States Naval War College

- ❖ New edition of a successful introduction to the field of military history
- ❖ Provides students with a concise primer to the main themes, theories, and methods for studying military history
- ❖ Has been thoroughly updated to reflect the most recent developments in the field, including new case studies on naval warfare and counterinsurgency
- ❖ Written by two internationally renowned scholars

READERSHIP: Students of military history, history of war and international relations

SERIES: WHAT IS HISTORY?

JUN 2012 180PP 978-0-745-65979-4 PR €19.90 / 978-0-745-65978-7 CL €57.90



Europe's Troubled Peace

1945 to the Present

2nd Edition

TOM BUCHANAN

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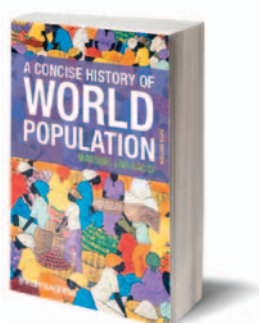
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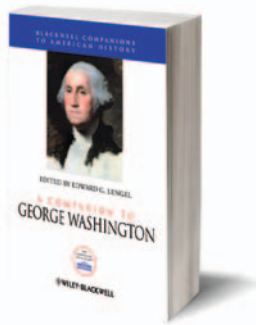
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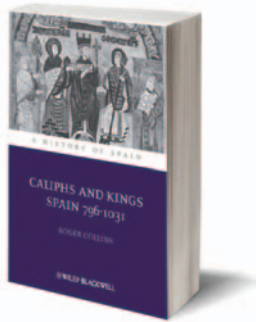
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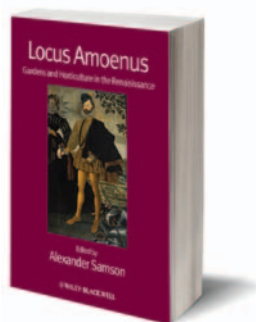
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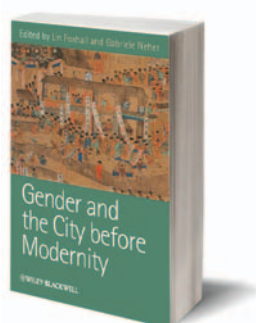
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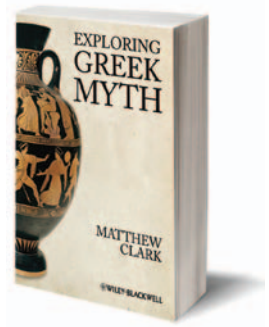
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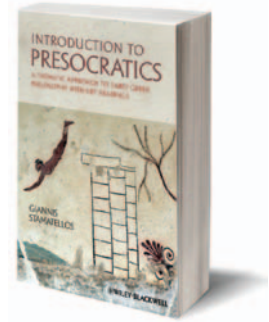
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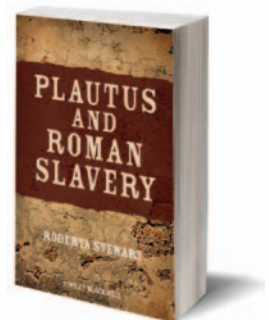
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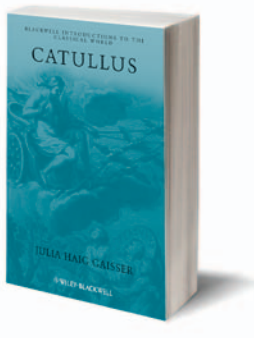
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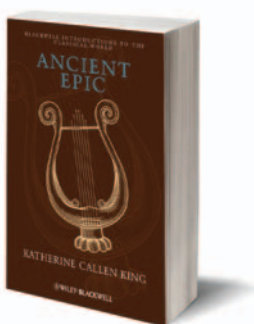
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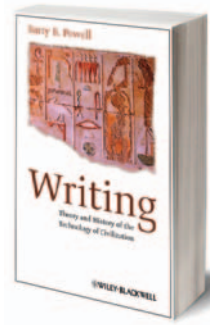
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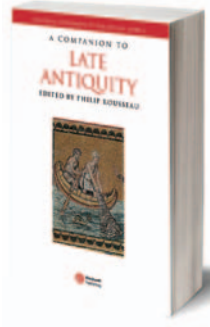
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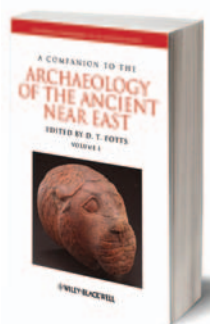
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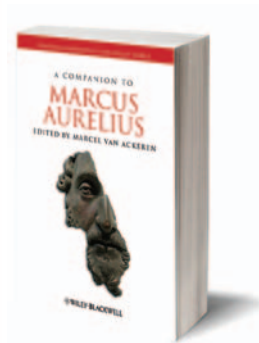
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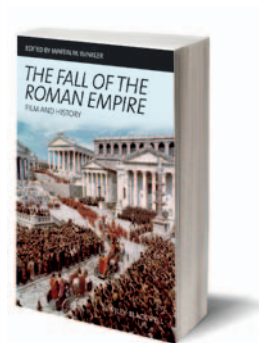
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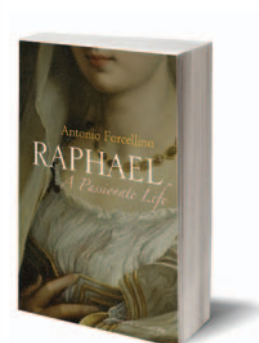
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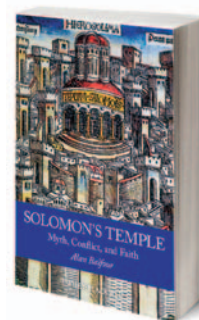
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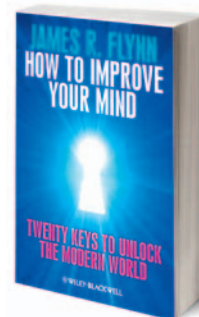
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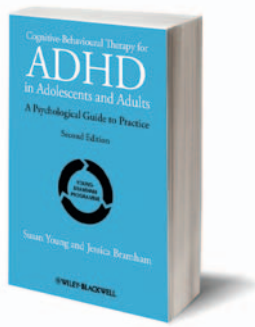
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- ❖ Based on up-to-date material, this is the first book to collate the wealth of evidence-based protocols in the area of CBT and schizophrenia
- ❖ Features work by the world's leading clinical researchers
- ❖ Each chapter includes illustrative case material

READERSHIP: Undergraduate and graduate students on CBT courses covering schizophrenia or severe mental illness, trainees in clinical psychology; 'Thorn' course students, and psychiatrists wanting to engage in CBT

JUN 2012 320PP 978-0-470-71205-4 PR €42.90 / 978-0-470-71206-1 CL €89.90





Cognitive-Behavioural Therapy for ADHD in Adolescents and Adults

new edition

A Psychological Guide to Practice
2nd Edition

SUSAN YOUNG & JESSICA BRAMHAM

Both of Institute of Psychiatry, UK

- ❖ Updates the proven Young-Bramham Programme to be used not only with adults but also with adolescents
- ❖ New edition of an influential guide to treating ADHD beyond childhood which encompasses the recent growth in scientific knowledge of ADHD along with published treatment guidelines
- ❖ Chapter format provides a general introduction, a description of functional deficits, assessment methods, CBT solutions to the problem, and a template for group delivery
- ❖ Provides a wealth of downloadable assessment checklists and tools in an accompanying website

READERSHIP: Clinical practitioners working with ADHD adults and adolescents in private and public sectors; students and academics; educational psychologists, psychiatrists, occupational therapists and paediatricians

APR 2012 288PP 978-1-1199-6073-7 PR €38.90 / 978-1-1199-6074-4 CL €89.90
REPLACES ISBN 978-0-470-01232-1



Practicing Positive CBT

From Reducing Distress to Building Success

FREDRIKE BANNINK

Clinical Psychologist, Amsterdam, The Netherlands

- ❖ Offers a new therapeutic approach that combines CBT with positive psychology
- ❖ Shifts the focus of therapy from what is wrong with clients to what is right with them, creating a more optimistic process and empowering clients to flourish
- ❖ Increases client motivation and collaboration; allows therapeutic outcomes to be achieved in shorter time-frames and in a more cost-effective way
- ❖ Covers theory and applications, and provides a wide range of exercises and case studies

READERSHIP: Cognitive-behavioral therapists, therapists trained in positive psychology and/or solution focused brief therapy

JUN 2012 256PP 978-1-1199-5269-5 PR / 978-1-1199-5270-1 CL €83.90



Schema Therapy in Practice

An Introductory Guide to the Schema Mode Approach

ARNOUD ARNTZ, DAVID P. BERNSTEIN & GITTA JACOB

Maastricht University, The Netherlands; Maastricht University, The Netherlands; University of Freiburg, Germany

- ❖ Provides the first general introduction to schema therapy for non-specialist practitioners wishing to incorporate it in their clinical practice
- ❖ Extends the practice of schema therapy across various personality disorders, and other chronic Axis I disorders
- ❖ Focuses on the schema mode model, within which cases can be more easily conceptualized and emotional interventions more smoothly introduced
- ❖ Presented by authors who are world-respected as leaders in the schema therapy field and in the development of the schema mode approach

READERSHIP: Psychotherapists and other health professionals who want to begin applying schema therapy in their practice; also as a training guide for psychotherapists in schema therapy

JUN 2012 256PP 978-1-1199-6286-1 PR €38.90 / 978-1-1199-6285-4 CL €83.90



Counselling and Spiritual Accompaniment

Bridging Faith and Person-Centred Therapy

BRIAN THORNE

University of East Anglia, UK

- ❖ Represents the culmination of an intellectual quest, undertaken by the most senior figure in the field, to integrate spirituality with counselling and the person-centered approach
- ❖ Reflects the increasing focus on spiritual issues as an essential part of psychotherapy, as more clients seek companionship in their search for meaning in an unpredictable world
- ❖ Features chapters that span thirty years of writing in this area, along with new pieces from the last eight years addressing the emerging field of spiritual accompaniment
- ❖ An invaluable guide for counsellors and therapists who acknowledge the importance of spirituality to their clients, but doubt their abilities to help in this area

READERSHIP: Counselors, psychotherapists, clergy, and pastoral workers; also for post-graduate level students for courses and theses relating to the spiritual implications of therapeutic work

JUN 2012 352PP 978-1-1199-5081-3 PR €34.90 / 978-1-1199-5082-0 CL €77.90

Destructive Myths in Family Therapy

How to Overcome Barriers to Communication by Seeing and Saying – A Humanistic Perspective

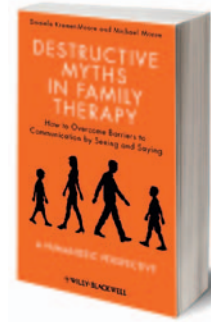
DANIELA KRAMER-MOORE & MICHAEL MOORE

Both of University of Warwick, UK

- ❖ Equips family therapists to help clients see the barriers they place in the way of healthy communication, and adopt more constructive alternatives
- ❖ Provides activities designed to spark open dialogue between therapist and clients, strengthening the therapeutic relationship and facilitating family interaction
- ❖ Includes communication strategies for reversing disengagement, defusing power struggles, overcoming sibling rivalry, disentangling marital problems and more
- ❖ Offers a new understanding of family dynamics, an area in which many family therapists want to improve their skills but struggle to find texts to help

READERSHIP: Family therapists, including clinical psychologists, psychiatrists, counselors, psychotherapists & social workers; students and scholars on courses involving family therapy, family dynamics, family communication and group facilitation

APR 2012 208PP 978-0-470-66700-2 PR €35.90 / 978-0-470-66701-9 CL €83.90



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A Relational Approach to Psychotherapy

PATRICK NOLAN

The Irish Institute for Integrated Psychotherapy, Ireland

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- ❖ Explores and integrates a range of approaches from various schools, from psychoanalysis to body-oriented psychotherapy and humanistic psychotherapies
- ❖ Offers clear and practical explanations of the intersubjective aspects of therapy
- ❖ Provides detailed case studies and numerous practical applications of infant research and the unified body-mind perspective increasingly revealed by neuroscience

READERSHIP: Undergraduate level students for courses in psychotherapy and psychology; and for training and practicing psychotherapists, psychologists, social workers, and counsellors

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- ❖ Discusses the differences between written, oral, and poster presentations and offers instructions for applying APA style to each

READERSHIP: Undergraduate and post-graduate students in research methods and writing courses in psychology, education, nursing, and sociology

MAY 2012 160PP 978-0-470-67123-8 PR TBA / 978-0-470-67232-7 CL €71.90



Environmental Psychology

An Introduction

LINDA STEG, AGNES E. VAN DEN BERG & JUDITH I. M. DE GROOT

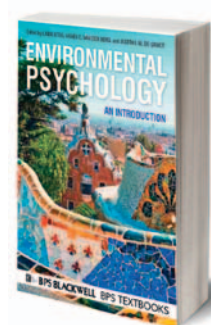
University of Groningen, the Netherlands; University of Groningen, the Netherlands; Bournemouth University, UK

- ❖ Explores the environment's effects on human wellbeing and behavior, factors influencing environmental behavior and ways of encouraging pro-environmental action
- ❖ Provides a state-of-the-art overview of recent developments in environmental psychology, with an emphasis on sustainability as a unifying principle for theory, research and interventions
- ❖ While focusing primarily on Europe and North America, also discusses environmental psychology in non-Western and developing countries
- ❖ Responds to a growing interest in the contribution of environmental psychologists to understanding and solving environmental problems

READERSHIP: Undergraduate and post-graduate level students of Environmental Psychology and other courses focusing on environmental management and policy, as well as practitioners in the field

SERIES: BPS BLACKWELL SERIES

APR 2012 256PP 978-0-470-97638-8 PR €38.90





Organizational Fit

Key Issues and New Directions

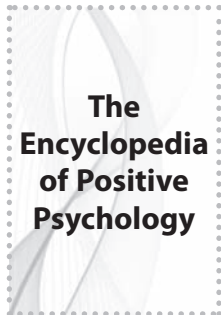
AMY KRISTOF-BROWN & JON BILLSBERRY

University of Iowa, USA; Open University, UK

- ❖ Includes multiple perspectives on the topic of how people fit into organizations, discussing issues across the field and gleaned insights from various related fields
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- ❖ Explores how people form their impressions of fit and the impact these have on their behavior, and how companies can maximize fit
- ❖ Actively encourages scholars to take part in organizational fit research, showing some of the creative directions that the field is taking into the future

READERSHIP: Researchers, practitioners and academics in I/O psychology, organizational behavior and HRM; upper level and post-graduate students in I/O and work psychology disciplines

JUN 2012 416PP 978-0-470-68361-3 CL €97.90



The Encyclopedia of Positive Psychology

Edited by SHANE J. LOPEZ

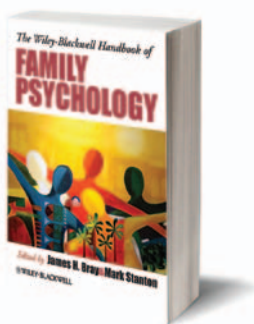
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TBA 1160PP 978-1-4051-9125-1 PR €289



The Wiley-Blackwell Handbook of Family Psychology

Edited by JAMES H. BRAY & MARK STANTON

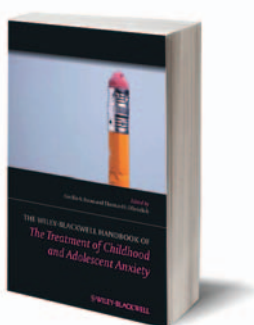
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TBA 784PP 978-1-4051-6994-3 PR €155 42.00



The Wiley-Blackwell Handbook of the Treatment of Childhood and Adolescent Anxiety

Edited by CECILIA A. ESSAU & THOMAS H. OLLENDICK

Roehampton University, UK; Virginia Polytechnic Institute and State University, USA

- ❖ Features the expertise of the foremost scientist-practitioners in the field of child and adolescent anxiety
- ❖ Includes state-of-the art information on psychological interventions from each contributor
- ❖ Written in a clear and easy-to-follow manner for a wide audience

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JUN 2012 600PP 978-0-470-66735-4 CL €142.00

International Review of Industrial and Organizational Psychology 2012

Volume 27

Edited by GERARD P. HODGKINSON & J. KEVIN FORD

University of Leeds, UK; Michigan State University, USA

- ❖ All chapters written by established experts and all topics carefully chosen to reflect the major concerns in both the research literature and in current practice
- ❖ Surveys developments in such areas as organizational behavior, stress in organizations, e-learning at work, team cultures and climates, personnel selection and the competitive advantage of firms, the processes of team staffing, and strategic human resource management
- ❖ Each chapter offers a comprehensive and critical survey of the chosen topic, and each is supported by a valuable bibliography

READERSHIP: Practitioners, academics and researchers in organizational psychology; masters-level students in organizational psychology and organizational behaviour

JUN 2012 384PP 978-1-1199-4087-6 CL €122.00



Nurturing Children and Families

Building on the Legacy of T. Berry Brazelton

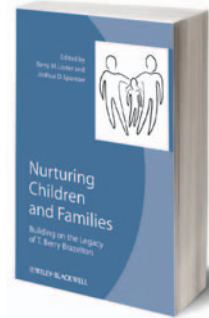
Edited by BARRY M. LESTER & JOSHUA D. SPARROW

Brown University, USA; Harvard University, USA

- ❖ Outlines the achievements and influence of T. Berry Brazelton, one of the world's foremost pediatricians, and his lasting influence in continuing research, practice, and policy
- ❖ Includes contributions from experts influenced by the work of Brazelton from a wide range of fields including pediatrics, psychology, nursing, occupational therapy, and policy
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AUG 2010 416PP 978-1-4051-9600-0 CL €105.00



Optimizing Teaching and Learning

Practicing Pedagogical Research

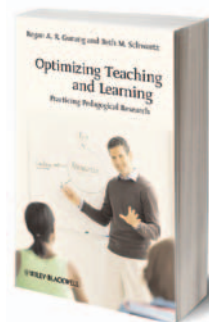
REGAN A. R. GURUNG & BETH M. SCHWARTZ

University of Wisconsin Green Bay, USA; Randolph Macon Woman's College, USA

- ❖ Provides explicit instructions on how to design, conduct, analyze, and write-up SoTL work
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Introduction to Social Psychology

5th Edition

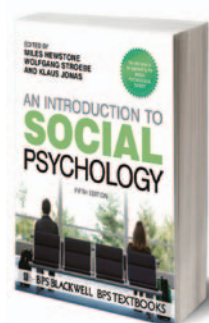
MILES HEWSTONE, WOLFGANG STROEBE & KLAUS JONAS

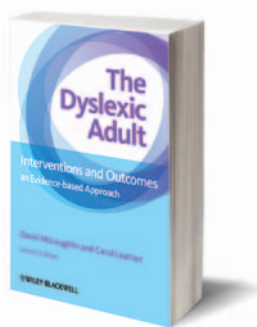
Oxford University, UK; Universiteit Utrecht, The Netherlands; University of Zürich, Switzerland

- ❖ The 5th edition of *Introduction to Social Psychology* continues to provide comprehensive coverage of Psychology with illustrations, colour, and an approachable format
- ❖ The text has fully integrated, cohesive and uniform chapters; a consistency and conciseness in writing style, structure and coverage; a host of useful, state-of-the-art pedagogical features; and full range of instructor support via the book's accompanying website
- ❖ New chapters have been brought in to reflect changes in the discipline, including first-time coverage of qualitative research and contributions from social psychologists from across Europe

READERSHIP: Undergraduate students studying or taking a module in social psychology

APR 2012 512PP 978-1-4443-3544-6 PR €44.90





The Dyslexic Adult

Interventions and Outcomes - An Evidence-based Approach
2nd Edition

DAVID MCLOUGHLIN & CAROL LEATHER

Both of Independent Dyslexia Consultants

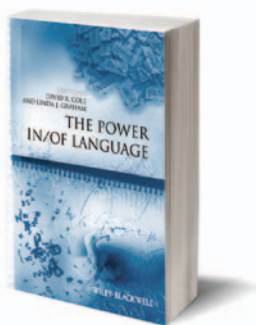
- ❖ The only book that looks at dyslexia within the context of life span developmental psychology, including the factors that contribute to success
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READERSHIP: Occupational psychologists, educational psychologists, and post-graduate students and academics in the field of teaching dyslexic adults; specialist tutors and teachers and disability advisors

SERIES: A BPS BLACKWELL BOOK

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- ❖ Provides a highly illustrated and practical guide to breast diseases for all those in primary care
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READERSHIP: GPs, junior doctors, cancer nurses, practice nurses, doctors and nurses in breast care clinics, oncologists and trainees oncologists, and radiographers

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- ❖ Features distinguished editors with contributions from internationally respected experts
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READERSHIP: General practitioners, junior hospital doctors, nurses, counsellors, medical students and allied health care workers

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ABC of Urology

3rd Edition

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Fitzwilliam Hospital, Peterborough; Edith Cavell Hospital, Peterborough

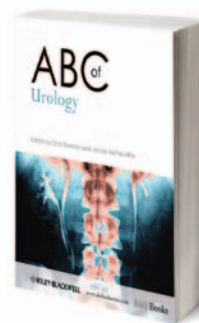
- ❖ This fully updated new edition provides a comprehensive overview of current practice in urology
- ❖ Present a structured and practical approach to the diagnosis and management of the most common urological conditions
- ❖ Features new techniques and procedures for safer and more effective treatment, including modern therapeutic treatment options like robotic surgery, photodynamic diagnosis, and Laser TURP
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- ❖ This fully updated new edition provides comprehensive guidance on current occupational and environmental health practice and legislation
- ❖ Concentrates on the newer kinds of occupational disease, for example 'RSI', pesticide poisoning and electromagnetic radiation, where exposure and effects are difficult to understand
- ❖ Places an emphasis on work, health and well-being, and the public health benefits of work, the value of work, disabled people at work, the aging workforce, and vocational rehabilitation
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REPLACES ISBN: 978-0-727-91611-2



How to Succeed at e-learning

PETER DONNELLY, PAUL KIRK & JOEL BENSON

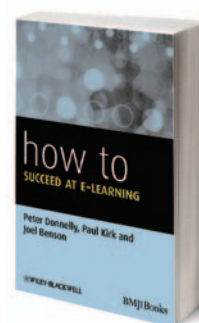
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- ❖ A global subject area, written for a global audience

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3rd Edition

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- ❖ Includes information on legal as well as ethical positions

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REPLACES ISBN: 978-0-727-91744-7



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- ❖ A comprehensive resource that addresses the legal issues specifically associated with clinical research and clinical trial law
- ❖ Provides legal guidance on research contracts, setting up clinical trials and common legal pitfalls encountered in medical research
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READERSHIP: Health professionals, researchers

MAY 2012 208PP 978-1-4051-9567-6 PR €65.90



Perioperative Medicine

Medical Consultation, Co-management and Practice Management

AMIR K. JAFFER & PAUL GRANT

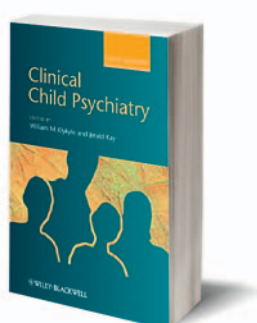
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- ❖ Provides a comprehensive evidence-based guide to the management of the growing population of patients that require perioperative care
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REPLACES ISBN: 978-0-470-02209-2

Mental Illness, Discrimination and the Law

Fighting for Social Justice

FELICITY CALLARD, NORMAN SARTORIUS, JULIO ARBOLEDA-FLÓREZ, PETER BARTLETT,

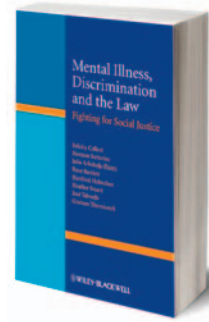
HANFRIED HELMCHEN, HEATHER STUART, JOSÉ TABORDA & GRAHAM THORNICROFT

King's College London; University of Geneva; Queen's University, Ontario; University of Nottingham; Charité-University Medicine, Berlin; Queen's University, Ontario; Federal University of Health Sciences of Porto Alegre, Brazil; King's College London

- ❖ Describes how legislation can be used to advance the rights and entitlements of people with mental health problems
- ❖ Provides clear and useful information on how to address the difficulties they face
- ❖ Based on a comprehensive review of legislative actions to use in protecting people with mental health problems from abuse and discrimination
- ❖ International in scope

READERSHIP: Practitioners of psychiatry, psychology, mental health nursing, social work, occupational therapy; researchers in the areas of mental health, mental disability law, socio-legal studies, stigma and discrimination, human rights

APR 2012 352PP 978-1-1199-5354-8 CL €77.90



Neuroimaging in Forensic Psychiatry

From the clinic to the courtroom

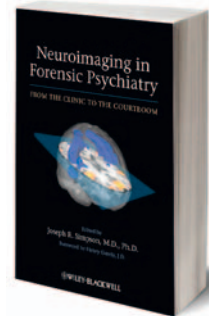
JOSEPH R. SIMPSON

University of Southern California

- ❖ The first book on forensic applications of neuroimaging
- ❖ Covers the use of neuroimaging in civil and criminal forensic contexts and includes discussion of prior precedents and court decisions
- ❖ Discusses the legal and ethical considerations of neuroimaging for practicing psychiatrists and psychologists
- ❖ Features contributions from researchers, medico-legal experts and bioethicists in one accessible volume

READERSHIP: Practicing forensic psychiatrists and psychologists; non-forensic professionals in psychiatry, psychology, and related fields; physicians; practicing attorneys; legal scholars; judges; bioethicists; neuroscientists

APR 2012 352PP 978-0-470-97699-9 CL €97.90



Headache

RICHARD LIPTON, MATTHEW ROBINS & BRIAN M. GROSBERG

All at Albert Einstein College of Medicine in New York

- ❖ Headache is one of the most common medical symptoms
- ❖ Part of the *Neurology in Practice* series
- ❖ A clinical 'in the office'/'at the bedside' guide
- ❖ Contains algorithms and guidelines

READERSHIP: Neurologists

SERIES: NEUROLOGY IN PRACTICE SERIES

MAY 2012 252PP 978-0-470-65472-9 PR €61.90



Neuro-oncology

ROGER J. PACKER & DAVID SCHIFF

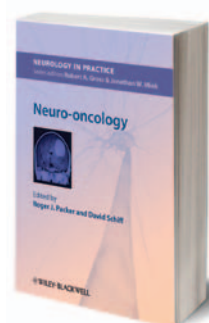
Children's National Medical Center, Washington, DC; University of Virginia

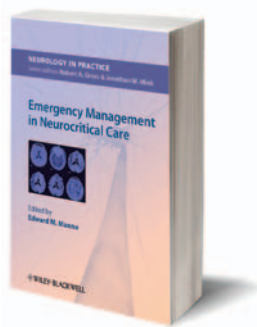
- ❖ Provides an overview of multiple different aspects of primary and central nervous system tumors, as well as the effects of systemic cancer and associated paraneoplastic syndromes, on the central nervous system
- ❖ Part of the *Neurology in Practice* series
- ❖ A clinical 'in the office'/'at the bedside' guide
- ❖ Contains algorithms and guidelines

READERSHIP: Neurologists, oncologists

SERIES: NEUROLOGY IN PRACTICE SERIES

APR 2012 284PP 978-0-470-65575-7 PR €61.90





Emergency Management in Neurocritical Care

EDWARD MANNO

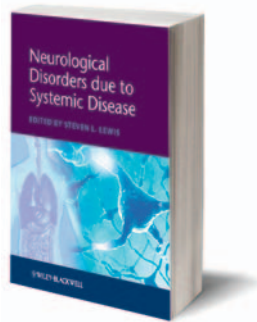
Cleveland Clinic

- ❖ Practical clinical guidance on the immediate care needs of critically ill neurologic patients
- ❖ Part of the *Neurology in Practice* series
- ❖ A clinical 'in the office'/'at the bedside' guide
- ❖ Contains 'Tips and Tricks' boxes with hints on improving outcomes via practical techniques and 'Caution' warning boxes with hints on avoiding problems

READERSHIP: Neurologists, intensivists, neurosurgeons, neuroanesthesiologists and internists

SERIES: NEUROLOGY IN PRACTICE SERIES

MAY 2012 252PP 978-0-470-65473-6 PR €61.90



Neurological Disorders due to Systemic Disease

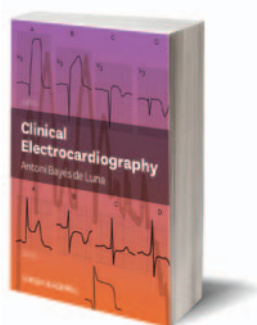
STEVEN L. LEWIS

Rush University Medical Center

- ❖ A wide range of common neurological presentations can result from systemic diseases
- ❖ A practical guide which guides the physician in the challenge of differentiating between a neurological deficit and a systemic illness
- ❖ Structured by neurological dysfunction
- ❖ Practical approach with algorithms and tips

READERSHIP: Neurologists

MAY 2012 280PP 978-1-4443-3557-6 CL €97.90



Clinical Electrocardiography

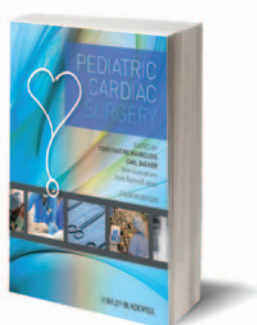
ANTONIO BAYES DE LUNA

Institut Català Ciències Cardiovasculars, Barcelona

- ❖ Provides a thorough overview of electrocardiography designed to give readers the competency they need for clinical practice or for further specialization
- ❖ Written by one of the most recognized names in electrophysiology
- ❖ Provides an accompanying website featuring additional "drill-down" content
- ❖ Offers PubMed-linked references, self-assessment questions for each topic/chapter, and case studies to underscore key clinically relevant topics

READERSHIP: General clinical cardiologists, electrophysiologists, and trainees in cardiology and electrophysiology

APR 2012 576PP 978-0-470-65859-8 CL €105.00



Pediatric Cardiac Surgery

CONSTANTINE MAVROUDIS

Cleveland Clinic

- ❖ Successfully combines cardiac surgery and pediatric cardiology into one premier textbook
- ❖ Completely revised and expanded, comprehensively covering all aspects of the surgical management of both congenital and acquired heart disease specifically in children
- ❖ Includes new chapters on: new modalities to diagnose congenital heart and tracheal defects; the new surgical technique of Fontan conversion with arrhythmia surgery for patients with univentricular physiology; the medical challenges that are faced by the increasing number of patients with congenital heart disease who are living into adulthood; heart transplantation
- ❖ An ideal reference for pediatric cardiologists in training and fully qualified, practicing congenital heart surgeons and general cardiac surgeons

READERSHIP: Pediatric and adult cardiac surgeons, pediatric and adult cardiologists, intensivists, anesthesiologists, residents, students, perfusionists, and nurses

JUN 2012 928PP 978-1-4051-9652-9 CL €215.00

REPLACES ISBN: 978-0-323-02229-3 (Mosby)

Haimovici's Vascular Surgery

6th Edition

ENRICO ASCHER

State University of New York

- ❖ Features 28 new chapters written by leading vascular surgeons
- ❖ Combines invaluable historical knowledge and perspectives of specialty together with the latest expertise
- ❖ Provides in-depth coverage of the 'new' basic principles and surgical techniques for vascular system management and treatment
- ❖ Includes expanded coverage on Acute Deep Vein Thrombosis of the Upper Extremities, Management of Infected Aortic Grafts and Computed Tomography, and Spiral Reconstruction

READERSHIP: Surgeons and cardiovascular surgeons

JUN 2012 1100PP 978-1-4443-3071-7 CL €302.00

REPLACES ISBN: 978-0-632-04458-0



Textbook of Clinical Gastroenterology and Hepatology

C.J. HAWKEY, JAIME BOSCH, JOEL E. RICHTER, GUADALUPE GARCIA-TSAO &

FRANCIS K. L. CHAN

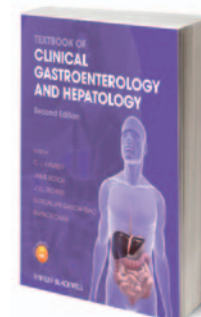
University of Nottingham; Hepatic Hemodynamic Laboratory, Barcelona; Temple University School of Medicine, Philadelphia; Yale University; Chinese University of Hong Kong

- ❖ Unparalleled fully clinical systematic approach to every symptom and every disease concerning the GI tract
- ❖ Over 850 outstanding colour clinical photos and line illustrations and 300 tables to help illustrate the range of GI diseases and procedures covered - also available to download as digital files
- ❖ Over 85 high-definition surgical videos of diagnostic and therapeutic endoscopic procedures
- ❖ 300 MCQs written to mirror the American College of Gastroenterology postgraduate course exams
- ❖ More than 35 management protocol charts for different diseases, all fully downloadable and editable, to help clinicians tailor the management programmes for different patients

READERSHIP: Gastroenterologists and hepatologists

MAR 2012 1536PP 978-1-4051-9182-1 CL €285.00

REPLACES ISBN: 978-0-323-02751-9 (Mosby)



Natural Orifice Transluminal Endoscopic Surgery

Textbook and Video Atlas

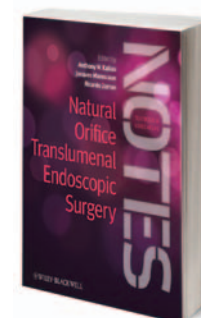
ANTHONY N. KALLOO, JACQUES MARESCAUX & RICARDO ZORRON

Johns Hopkins Hospital, Baltimore; University Hospital of Strasbourg; Klinikum Bremerhaven Reinkenheide Bremerhaven, Germany

- ❖ NOTES is a brand new up and coming surgical trend which is predicted to rival open and laparoscopic surgery as the therapeutic choice for a huge number of medical conditions
- ❖ This book will be the first to cover this new procedure
- ❖ Contains 50 videos of various types of NOTES procedures in action, being performed by the leading experts
- ❖ Tony Kalloo is one of the leading founders of NOTES, and is heavily involved in the committees which have been set-up to standardise the clinical application of NOTES
- ❖ Covers not only the use of NOTES for GI procedures, but all other medical procedures such as urologic, gynaecologic and ENT surgery

READERSHIP: Gastroenterologists and GI fellows, endoscopists, GI surgeons and GI surgery fellows, general, gynecology, ENT, urologic, thoracic, and veterinarian surgeons

MAY 2012 300PP 978-0-470-67103-0 CL €195.00



Diabetes Chronic Complications

3rd Edition

KENNETH M. SHAW & MICHAEL H. CUMMINGS

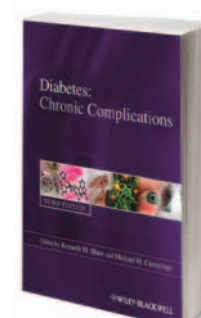
University of Portsmouth; Queen Alexandra Hospital, Portsmouth

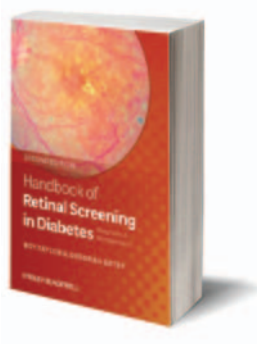
- ❖ Summarises the major complications of diabetes using a succinct and concise format
- ❖ New to this edition - a section on liver complications in diabetes, greater focus on mental health complications, dyslipidaemia and hypertension now covered
- ❖ Features algorithms for screening and treatment of diabetes complications
- ❖ Includes case histories in every section
- ❖ Each chapter contains up to 3 MCQs and a key points summary box

READERSHIP: Endocrinologists, diabetologists, diabetes nurse specialists

MAY 2012 336PP 978-0-470-65618-1 CL €77.90

REPLACES ISBN: 978-0-470-86579-8





Handbook of Retinal Screening in Diabetes

Diagnosis and Management
2nd Edition

ROY TAYLOR & DEBORAH BATEY

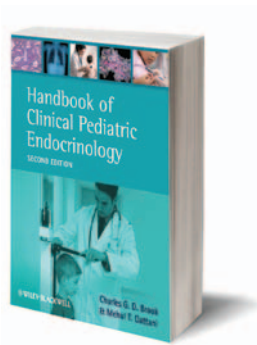
Both of University of Newcastle upon Tyne and Newcastle Diabetes Centre

- ❖ A practical guide in how to correctly screen patients and to interpret the results
- ❖ Outstanding colour retinal photographs to illustrate each different stage of retinal degeneration in diabetic patients
- ❖ Includes self-assessment material based on typical retinal screening exam requirements (now mandatory in the UK)
- ❖ Contains an associated website which allows basic image manipulation – red free, and magnification – of the images presented in the book

READERSHIP: Full-time retinal screeners, diabetologists, ophthalmologists, trainee ophthalmologists, optometrists, optometry nurses

APR 2012 160PP 978-0-470-65849-9 PR €65.90

REPLACES ISBN: 978-0-470-02882-7



Handbook of Clinical Pediatric Endocrinology

2nd Edition

CHARLES G.D. BROOK & MEHUL T. DATTANI

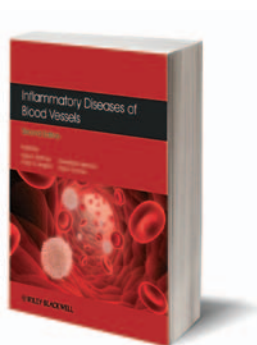
University College and The Middlesex Hospital; University College London

- ❖ A practical, highly clinical, concise and up to date account of paediatric endocrinology in a rapid-reference, user friendly format
- ❖ Includes 5 brand new chapters including coverage of endocrine complications of chronic disease and endocrine neoplasia
- ❖ Features specific boxes in each chapter on key weblinks, society guidelines, common pitfalls/errors in diagnosis and management made, and key points
- ❖ Includes MCQs in every chapter to self-assess your clinical knowledge

READERSHIP: Endocrinologists, paediatricians, and nurse specialists

APR 2012 376PP 978-0-470-65788-1 PR €65.90

REPLACES ISBN: 978-1-4051-6109-1



Inflammatory Diseases of Blood Vessels

2nd Edition

GARY S. HOFFMAN, CORNELIA M. WEYAND, CAROL A. LANGFORD & JORG J. GORONZY

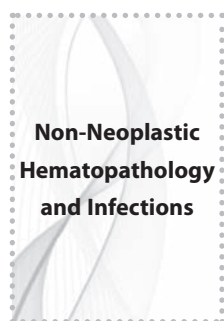
Lerner College of Medicine; Stanford University; Lerner College of Medicine; Stanford University

- ❖ Vasculitis is a lifelong condition, alternating between periods of “flare-up” and remission
- ❖ Editors are well-respected world authorities on vasculitic disease and have assembled a team of internationally renowned experts to contribute
- ❖ A comprehensive up-to date review of vasculitic diseases, covering molecular and cellular mechanisms as well as clinical aspects
- ❖ Contains up-to-date trial data

READERSHIP: Immunologists, nephrologists, cardiologists, rheumatologists, vascular surgeons, hospitalists

MAY 2012 552PP 978-1-4443-3822-5 CL €182.00

REPLACES ISBN: 978-0-824-70269-4 (Informa)



Non-Neoplastic Hematopathology and Infections

HERNANI CUALING, PARUL BHARGAVAL & RAMON L. SANDIN

University of South Florida; Beth Israel Deaconess Medical Center, Boston; Moffitt Cancer Center, Florida

- ❖ The first book devoted to non-neoplastic hematopathology and infections, including rare and unusual infectious disease agents
- ❖ Contains detailed information on the pathology and patterns of blood, bone marrow, lymph node, and splenic infections and infectious agent manifestation with 170 illustrations
- ❖ Promotes the multidisciplinary integration of hematopathologists and microbiologists in the analysis and diagnostic work-up of tissue and blood

READERSHIP: Pathologists, Hematopathologists; Medical and Research Microbiologists and Parasitologists; Tropical Medicine Specialists; Virologists; Internal Medicine Practitioners, Infectious Disease Specialists, Hematologists

MAR 2012 600PP 978-0-470-64600-7 CL €122.00

Laboratory Hematology Practice

KANDICE KOTTKE-MARCHANT & BRUCE DAVIS

Cleveland Clinic; Trillium Diagnostics

- ❖ A valuable one-stop-shop for practical information in the hematology laboratory
- ❖ Endorsed by the ISLH, the only professional society focused on technological innovations in laboratory hematology
- ❖ Emphasis on international recommendations for testing practice
- ❖ Includes illustrative case studies on how technology can be used in patient diagnosis

READERSHIP: Clinical hematologists, pathologists and hematopathologists

MAR 2012 792PP 978-1-4051-6218-0 CL €259.00



Handbook of Pediatric Hematology and Oncology

Children's Hospital and Research Center Oakland

2nd Edition

CAROLINE A. HASTINGS, ANURAG K. AGRAWAL & JOSEPH C. TORKILDSON

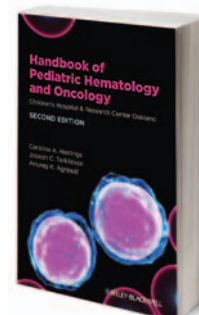
All at Children's Hospital & Research Center Oakland

- ❖ This fully updated new edition provides practical guidance on how to handle common challenges in paediatric haematology and oncology
- ❖ Includes new chapters on bone marrow transplantation, pain management, and palliative care
- ❖ Now with a brand new, attractive two-colour text design to highlight key text and algorithms

READERSHIP: Paediatricians, haematologists, oncologists, trainees, and paediatric nurses

APR 2012 248PP 978-0-470-67088-0 PR €51.90

REPLACES ISBN: 978-0-323-01861-6 (Mosby)



Queenan's Management of High-Risk Pregnancy

An Evidence-Based Approach

6th Edition

JOHN T. QUEENAN, CATHERINE Y. SPONG & CHARLES J. LOCKWOOD

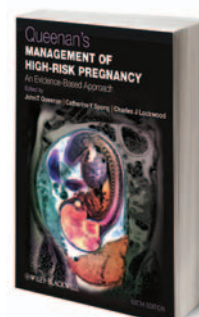
Georgetown University; Yale University; Ohio State University

- ❖ Covers the increased options for monitoring maternal and fetal health throughout a pregnancy, and methods for identifying and managing risk earlier
- ❖ New material covers iron-deficient anemia, pregnancy in the disabled woman, operative vaginal delivery and patient safety in labor and delivery
- ❖ Includes evidence, algorithms, case studies and potential outcome measures throughout

READERSHIP: Practicing obstetricians, trainee obstetricians, experienced nurse-midwives

APR 2012 528PP 978-0-470-65576-4 CL €129.00

REPLACES ISBN: 978-1-4051-2782-0



Flexible Bronchoscopy

3rd Edition

KOPEN WANG, ATUL C. MEHTA & J. FRANCIS TURNER

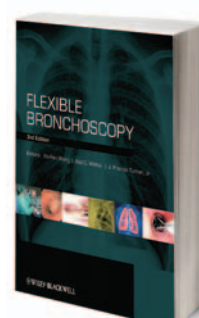
Johns Hopkins Bayview Medical Center; Harbor Medical Center Baltimore; Ohio State University

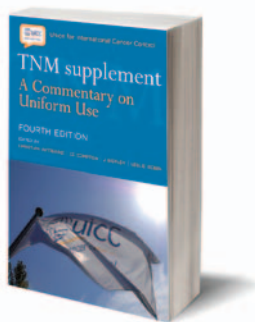
- ❖ Divided into 4 sections for ease of use: Fundamentals of Bronchoscopy, Diagnostic Bronchoscopy, Therapeutic Bronchoscopy and Special Considerations
- ❖ Includes new chapters on asbronchoscopic lung volume reduction for end-stage emphysema and the use of semi-flexible thoracofibrescope in medical thorascopy
- ❖ Covers all current techniques and future technologies in interventional bronchoscopy
- ❖ Highlights possible complications, contra-indications and precautions

READERSHIP: Respiratory and pulmonary physicians, respiratory trainees and residents working in the field

JAN 2012 344PP 978-1-4051-7587-6 CL €162.00

REPLACES ISBN: 978-0-632-04552-5





TNM Supplement

A commentary on uniform use
4th Edition

CHRISTIAN WITTEKIND

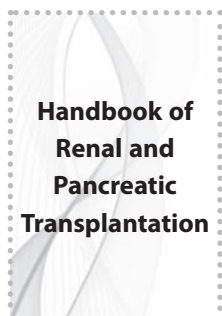
University of Leipzig

- ❖ The TNM system is the most widely used means for classifying the extent of cancer spread
- ❖ Contains explanations and examples to answer questions that arise during the daily use of TNM, particularly in unusual cases
- ❖ Provides oncologists with complementary material related to TNM staging not covered in TNM Classification of Malignant Tumours, 7th Edition ISBN 978-1-4443-3241-4
- ❖ Published in association with the Union for International Cancer Control

READERSHIP: Medical, surgical, and radiation oncologists; anatomic and surgical pathologists; oncology nurses; international cancer care centres; NGOs dedicated to cancer control.

APR 2012 220PP 978-1-4443-3243-8 PR €42.90

REPLACES ISBN: 978-0-471-46666-6



Handbook of Renal and Pancreatic Transplantation

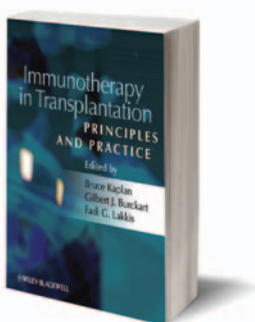
IAIN MACPHEE & JIRI FRONEK

Both St George's University, London

- ❖ A comprehensive, state of the art, introductory handbook to the most common soft organ transplantation procedures
- ❖ Covers the basic information essential for trainees and non-specialists working with kidney disease and diabetic patients
- ❖ Includes coverage of paediatric transplantation, organisation of long-term care, as well as law and ethical issues

READERSHIP: Transplant surgeons, renal doctors, anaesthetists, diabetologists, and transplant nurses and coordinators, and all clinicians involved in the care of transplant patients

JUN 2012 496PP 978-0-470-65491-0 PR €65.90



Immunotherapy in Transplantation

Principles and Practice

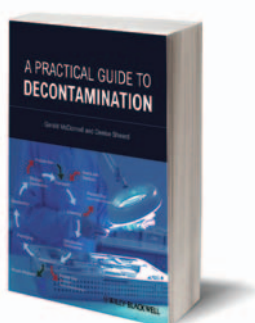
BRUCE KAPLAN, GILBERT J. BURKHART & FADI G. LAKKIS

University of Arizona; U.S. Food and Drug Administration; University of Pittsburgh

- ❖ A comprehensive reference for all physicians in transplantation working with pharmacologic and biologic agents that modulate the immune system
- ❖ Covers all anti-rejection drugs according to a set template and includes efficacy of each for specific diseases
- ❖ Introductory section covers pharmacokinetics, pharmacodynamics and pharmacogenomics
- ❖ From a team of world-renowned editors and contributors in the fields of transplantation, nephrology, pharmacology and immunology

READERSHIP: All physicians working in the field of transplantation

APR 2012 600PP 978-1-4051-8271-3 CL €162.00



A Practical Guide to Decontamination

Edited by GERALD McDONNELL & GILLIAN SILLS

Steris Limited, Basingstoke; Institute of Decontamination Sciences, Nottingham

- ❖ Written by highly experienced professionals in the field, this unique book comprises a systematic review of decontamination methods, with uses and advantages outlined for each
- ❖ Up-to-date regulations, standards and guidelines are incorporated throughout
- ❖ Includes protocols where necessary, e.g. wash area activities

READERSHIP: All healthcare professionals working in infectious diseases and infection control, in particular, those focusing on facilities with surgery, endoscopy, sterile processing and other areas where instrument processing, decontamination or patient procedures are performed

SEP 2012 448PP 978-1-4443-3013-7 CL €97.90

Pharmacoepidemiology

5th Edition

BRIAN L. STROM, STEPHEN E KIMMEL & SEAN HENNESSY

All at University of Pennsylvania

- ❖ *Pharmacoepidemiology* is the most comprehensive book to define and describe the discipline of pharmacoepidemiology
- ❖ Provides perspectives on this field from several different viewpoints (academia, industry, and regulatory agencies)
- ❖ Surveys the research designs and sources of data available for pharmacoepidemiologic research, and descriptions of various automated data systems, along with the advantages and disadvantages of each
- ❖ This edition includes several major new developments since the publication of the fourth edition in 2005

READERSHIP: Pharmaceutical companies, clinical research organisations, and regulatory agencies

MAR 2012 1008PP 978-0-470-65475-0 CL €265.00

REPLACES ISBN: 978-0-470-86681-8



Surgical Critical Care and Emergency Surgery

Clinical Questions and Answers

FORREST O. MOORE, PETER M. RHEE, SAMUEL A. TISHERMAN & GERARD J. FULDA

St. Joseph's Hospital and Medical Center, Arizona; University of Arizona; University of Pittsburgh; Jefferson Medical College, Philadelphia and Christiana Care Health Systems, Newark

- ❖ A unique question and answer book on the growing specialty of critical care and acute surgery
- ❖ Follows the renowned Rush University Medical Centre formula for surgery trainees teaching
- ❖ Ideal for learning, for daily patient care, for test taking, and for board review

READERSHIP: Surgical and intensivist trainees taking certification board examinees, residents and fellows in training, and students caring for critically ill surgical patients

MAY 2012 368PP 978-0-470-65461-3 PR €69.90



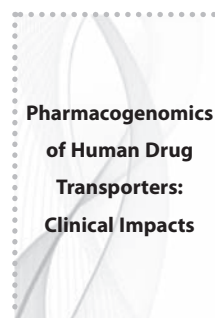
Pharmacogenomics of Human Drug Transporters: Clinical Impacts

TOSHIHARA ISHIKAWA, RICHARD B. KIM, JÓRG KÓNIG

- ❖ Covers an area of increasing importance to pharmaceutical industry and research
- ❖ Emphasizes pharmacogenomics and influence on drug therapy – an internationally hot topic
- ❖ Explains the principles of altered drug transport in drug-drug interactions, pharmacotherapy, and personalized medicine
- ❖ Balances coverage of mechanistic aspects and functional outcomes
- ❖ Provides sufficient detail to enable non-specialists to understand the principles and techniques
- ❖ Reviews individual drug transporters, including specific transporter families and clinical implications
- ❖ Is a practical, hands-on desk reference for researchers in academia, industry and government agencies

READERSHIP: Pharmaceutical scientists, pharmacologists, biochemists, genetics and genomics researchers, and more importantly clinical scientists; international pharmaceutical scientists who are interested in ethnic differences in pharmacokinetics and drug action; contract research organizations (CROs) and other drug development groups; graduate courses on drug transporters, pharmacology, pharmacokinetics, pharmacogenomics in pharmacy and medical schools

JUN 2012 400PP 978-0-470-92794-6 CL €109.00



Paediatric Advanced Life Support

A Practical Guide for Nurses

2nd Edition

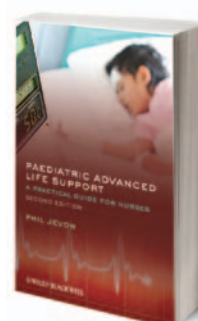
Philip Jevon

Manor Hospital, Walsall

- ❖ A practical and systematic guide to the rapid assessment and delivery of appropriate resuscitation to infants and children
- ❖ Conforms to current European Resuscitation Council Guidelines
- ❖ Based on up-to-date research and evidence-based practice protocols
- ❖ Synoptic approach enables rapid delivery of effective treatment
- ❖ Written by experts in the field of both resuscitation and paediatrics

READERSHIP: Newly qualified children's nurses, particularly those working in emergency settings, cardiac, intensive care, critical care and high dependency care; student nurses on the child branch; emergency care staff; paramedics; operating department practitioners

APR 2012 264PP 978-1-4051-9776-2 PR €33.90





Monitoring the Critically Ill Patient

3rd Edition

PHILIP JEVON & BEVERLEY EWENS

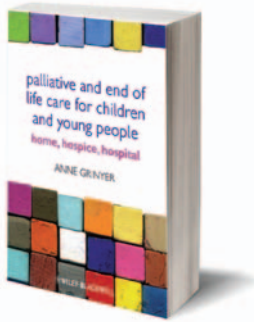
Manor Hospital, Walsall; ITU, Manor Hospital, Walsall, UK

- ❖ Third edition of a successful clinical text
- ❖ A practical, how-to approach to monitoring patients at risk of deterioration
- ❖ Applicable to all nurses working on the ward setting, not just critical/intensive care nurses
- ❖ Case studies and examples used to encourage reader to apply their knowledge to a practical setting
- ❖ Suitable for nursing students as well as the newly qualified nurse

READERSHIP: Undergraduate nursing students studying courses on acute/complex/critical/emergency care nursing; newly qualified nurses working in hospital settings

SERIES: **ESSENTIAL CLINICAL SKILLS FOR NURSES**

FEB 2012 264PP 978-1-4443-3747-1 PR €25.90



Palliative and End of Life Care for Children and Young People

Home, Hospice, Hospital

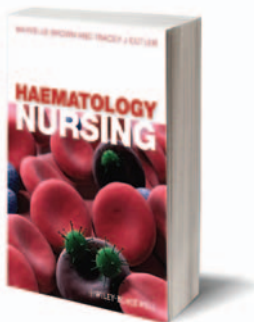
ANNE GRINYER

Lancaster University, United Kingdom

- ❖ A comprehensive resource on end of palliative care provision for children and young adults with cancer and other life limiting illnesses
- ❖ Timely and topical, tying in with the latest Department of Health palliative care strategy 'Better Care: Better Lives'
- ❖ Written in an accessible style that does not assume either detailed medical or theoretical knowledge
- ❖ Explores palliative care provision in a range of different clinical settings including the home, hospice, and hospital
- ❖ Provides valuable insights into the experiences of parents, children and young people

READERSHIP: Community children's nurses; specialist palliative care teams; children's hospices; school nurses; social workers and student nurses

FEB 2012 272PP 978-0-470-65614-3 PR €35.90



Haematology Nursing

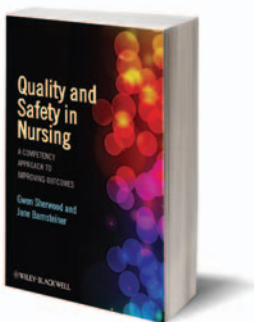
MARVELLE BROWN & TRACEY CUTLER

University of West London, UK; Birmingham City University, UK

- ❖ A comprehensive nursing handbook on the care and management of patients with haematological disorders
- ❖ The first UK text to explore both malignant and non-malignant haematology nursing care
- ❖ Explores non-malignant haematology, pathophysiology, care and management of Myeloproliferative and Lymphoproliferative Disorders, and information on various nursing care interventions

READERSHIP: Nurses new to medical/haematology wards, haematology/oncology wards and specialist bone marrow transplant centres; 3rd year pre-registration nurses; community nurses

MAR 2012 288PP 978-1-4051-6996-7 PR €38.90



Quality and Safety in Nursing

A Competency Approach to Improving Outcomes

GWEN SHERWOOD & JANE BARNSTEINER

University of North Carolina-Chapel Hill, USA; University of Pennsylvania, USA

- ❖ Quality and Safety in Nursing: A Competency Approach to Improving Outcomes is the first comprehensive text of its kind devoted to the nursing community's role in improving quality of care and patient safety
- ❖ Written by key members of the Quality and Safety Education for Nursing steering team
- ❖ Defines each of the six QSEN competencies and provides instruction on acquiring and implementing each competency
- ❖ Provides instruction on integrating QSEN competencies into formal education and practice

READERSHIP: Nurses in leadership roles in both academic and practice settings, including nursing educators, managers, and administrators; clinicians from healthcare organizations; staff developers; and graduate students in nursing

APR 2012 416PP 978-0-470-95958-9 PR TBA

Mentoring in Nursing and Healthcare

A Practical Approach

KATE KILGALLON & JANET THOMPSON

Teesside University, Middlesbrough, UK; Robert Gordon University, Aberdeen, Scotland, UK

- ❖ A practical resource that promotes active participation and enhances a deeper level of understanding of mentorship
- ❖ Includes not only the latest and most up to date NMC standards, but also the Health Professionals Councils standards of proficiency
- ❖ Has a strong focus on assessment skills
- ❖ Interactive and practice-oriented, with case studies, reflective exercises and activities throughout
- ❖ Reflective practice is explored and integrated throughout the book so that the mentor is able to deliberate on their own experiences of mentorship
- ❖ Interactive companion website featuring pre and post test questions, multiple choice questions, web-links, PowerPoint slides, lesson plans, case studies, and activities

READERSHIP: Registered nurse mentors; Clinical Placement Facilitators; Pre-registration nursing students

APR 2012 240PP 978-1-4443-3654-2 PR €25.90



Clinical Reasoning in Occupational Therapy

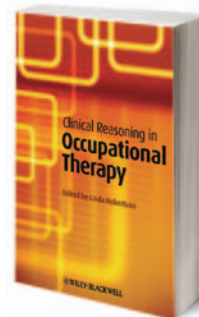
LINDA ROBERTSON

Otago Polytechnic, Dunedin, NZ

- ❖ Defines clinical reasoning as a process in which the therapist structures meaning, goals and health management strategies based on clinical data, client choices and professional judgement and knowledge
- ❖ Informs occupational therapy students and practitioners about the latest research and thinking on the topic covers
- ❖ Considers clinical reasoning as an important aspect of occupational therapy practice and an obligatory component of professional training and assessment
- ❖ Written by an internationally renowned group of clinicians, educators and academics, this book examines the theory and practice of all key topics within clinical reasoning

READERSHIP: occupational therapy students and practitioners

APR 2012 256PP 978-1-4051-9944-5 PR €32.90



Clinical Textbook of Dental Hygiene and Therapy

SUZANNE NOBLE

School of Dental Hygiene & Therapy, Birmingham Dental Hospital, UK

- ❖ Fully revised and updated to reflect changes in clinical practice, legislation and regulation
- ❖ Provides unique combined coverage of the subjects of dental hygiene and dental therapy to enable students to streamline their primary reading
- ❖ Emphasises the clinical domain and follows course developments and an expansion in the remits of both hygienists and therapists
- ❖ Highly illustrated in full colour throughout and with a dedicated companion website, this text includes expert contributions from dental hygienists, therapists, and dentists

READERSHIP: students, practicing dental hygienists and therapists

APR 2012 456PP 978-0-470-65837-6 PR €65.90



Dental Emergencies

MARK GREENWOOD & IAN CORBETT

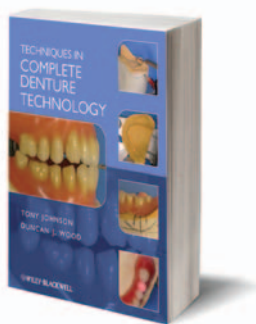
Both of School of Dental Sciences, Newcastle University, UK

- ❖ A readily accessible guide to the treatment and management of dental emergencies for everyday use in clinical practice
- ❖ Full of clinical examples and step-by-step procedures, distilling essential information on traumatic injuries, pain, and oral lesions
- ❖ Includes discussion of clinical examination, assessment of potential complications, pain management, acute oral medical and surgical conditions and restorative dental emergencies, as well as special needs patients and medical emergencies

READERSHIP: General dentists, dental students in their clinical years, other members of the dental team, particularly dental therapists.

MAR 2012 224PP 978-0-470-67396-6 PR €51.90





Techniques in Complete Denture Technology

TONY JOHNSON & DUNCAN J. WOOD

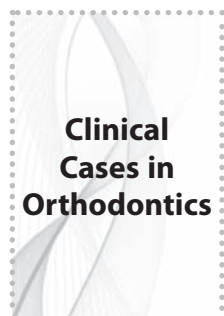
Both of School of Dentistry, Sheffield University, UK

- ❖ A practical clinical manual focusing on the discipline of complete denture technology
- ❖ Sets out the ideal properties of complete dentures, and provides the reader with techniques for achieving these when carrying out any stage in the production process
- ❖ Full of easy to follow step-by-step procedures
- ❖ Highly illustrated with full colour clinical photos

READERSHIP: Dental technicians, clinical dental technicians, maxillo-facial prosthetists, general dentists, final year students in dentistry and dental technology

SERIES: CLINICAL CASES

APR 2012 144PP 978-1-4051-7909-6 PR €57.90



Clinical Cases in Orthodontics

MARTYN COBOURNE, ANDREW DIBIASE & SOFIA AHMAD

Guy's and St Thomas' NHS Foundation Trust Dental Institute, London, UK; Kent and Canterbury Hospital, Canterbury, UK; Queen Victoria Hospital NHS Foundation Trust, UK

- ❖ Part of the Wiley-Blackwell Clinical Cases series, applying both theory and practice to real-life orthodontic cases in a clinically relevant format
- ❖ Supports the trend in case-based and problem-based learning, fostering independent learning and preparing the reader for case-based examinations
- ❖ Covers topics ranging from Class I malocclusions to orthognathic surgery
- ❖ Highly illustrated in full colour

READERSHIP: Pre-doctoral dental students, post-graduate residents and orthodontists preparing for Board examinations, as well as practicing orthodontists and general dentists.

SERIES: ADDICTION PRESS

JUN 2012 304PP 978-1-4051-9779-3 PR €77.90



Oral Rehabilitation

A Case-Based Approach

IVEN KLINEBERG & DIANA KINGSTON

Both of Westmead Centre for Oral Health, Westmead Hospital, Australia; University of Sydney, Australia

- ❖ Provides a structured approach to decision-making and case design in oral rehabilitation, with an emphasis on interdisciplinary support for prosthodontics
- ❖ Based around clinical cases which demonstrate a range of actual patient cases from simple to complex
- ❖ Grounded firmly in evidence-based principles
- ❖ Includes a chapter on literature searching in dentistry

READERSHIP: Dentistry students and clinicians, particularly those with an interest in prosthodontics and oral rehabilitation

APR 2012 256PP 978-1-4051-9781-6 CL €57.90



Management of Complications in Oral and Maxillofacial Surgery

MICHAEL MILORO & ANTONIA KOLOKYTHAS

Both of University of Illinois at Chicago, USA

- ❖ Comprehensive coverage of minor and major complications in all aspects of Oral and Maxillofacial Surgery
- ❖ Recognition, diagnosis, and management strategies for a variety of clinical scenarios
- ❖ Step-by-step procedures to manage both immediate and delayed complications
- ❖ 500 color photographs and line illustrations

READERSHIP: Oral and maxillofacial surgeons, oral and maxillofacial surgery residents

MAR 2012 408PP 978-0-813-82052-1 CL €145.00

Oral Wound Healing

Cell Biology and Clinical Management

HANNU LARJAVA

University of British Columbia, Canada

- ❖ Oral Wound Healing: Cell Biology and Clinical Management brings experts from around the world together to provide an authoritative reference on the processes, principles and clinical management of wound healing in the oral mucosa
- ❖ In-depth discussion of effective clinical management of oral wound healing
- ❖ Detailed discussion on processes such as inflammation, reepithelialization and angiogenesis
- ❖ Written by experts in the field

READERSHIP: Graduate students and residents in the oral and dental sciences; also researchers working in oral biology

MAY 2012 400PP 978-0-813-80481-1 CL €122.00



Cosmesis of the Mouth, Face and Jaws

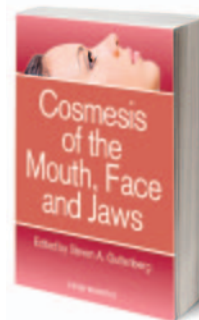
STEVEN GUTTENBERG

Washington Institute for Mouth, Face and Jaw Surgery, Washington, D.C., USA

- ❖ Covering the core repertoire of cosmetic facial and dental procedures, Cosmesis of the Mouth, Face and Jaws will provide thorough and pragmatic clinical guidance in each area, as well as discussion of the relevant biological and scientific background, evidence (where available), and detection and avoidance of complications
- ❖ A unique, whole-face approach to cosmetic procedures
- ❖ Highly illustrated, user-friendly format
- ❖ Contributions from leading experts in multiple specialties

READERSHIP: Oral and maxillofacial surgeons, cosmetic and plastic surgeons, restorative dentists, and general dentists with an interest in expanding their esthetic dentistry practice

MAY 2012 336PP 978-0-813-81698-2 CL €129.00



Clinical Cases in Pediatric Dentistry

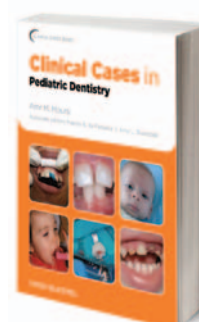
AMR M. MOURSI

New York University College of Dentistry, USA

- ❖ Clinical Cases in Pediatric Dentistry applies both theory and practice to real-life pediatric dentistry cases in a clinically relevant format, while thoroughly covering topics ranging from infant oral health to complex pulp therapy
- ❖ Unique case-based format supports problem-based learning
- ❖ Promotes independent learning through self-assessment and critical thinking
- ❖ Highly illustrated with full-color, step-by-step clinical cases
- ❖ Covers all essential topics within pediatric dentistry

READERSHIP: Students and practitioners working towards specialization in pediatric dentistry; post-graduate residents in pediatric dentistry, those taking Board examinations, and practicing pediatric dentists; Will also be of interest to general dentists and ambitious pre-doctoral dental students

JUN 2012 304PP 978-0-813-80761-4 PR €63.90



Mineralized Tissues in Oral and Craniofacial Science

Biological Principles and Clinical Correlates

LAURIE K. MCCAULEY & MARTHA J. SOMERMAN

University of Michigan, Ann Arbor, Michigan, USA; National Institutes of Health, Bethesda, Maryland, USA

- ❖ Mineralized Tissues in Oral and Craniofacial Science is a major comprehensive update on knowledge in the field of mineralized tissues in the oral and craniofacial region
- ❖ Clinical correlates link research in the lab to the patient in the chair
- ❖ Comprehensive overview of latest research in hard tissues of the oral and craniofacial regions
- ❖ International contributors provide a global perspective on the latest research and clinical correlates linked with mineralized tissues
- ❖ Downloadable photographs available at wiley.com for academic presentation purposes

READERSHIP: Researchers in oral biology, periodontology, implantology

JUN 2012 304PP 978-0-470-95833-9 CL €122.00





Oral Precancer

Diagnosis and Management of Potentially Malignant Disorders

PETER THOMSON

School of Dental Sciences, Newcastle-upon-Tyne, UK

- ❖ Compiles recent research on precancer conditions of the oral cavity and their specific application to the dental field
- ❖ Provides a scientific and evidence-based survey of the disparate sources of oral precancer research, as well as presenting practical information for dental practitioners
- ❖ Written by a prominent researcher in the field
- ❖ Presents a balanced approach to this highly topical subject

READERSHIP: Oral and maxillofacial surgeons, and pathologists, oral medicine specialists, public health dentists, community dentists, and general dentists. Also of interest to oral oncologists, head and neck Surgeons, and ENT surgeons.

APR 2012 256PP 978-1-4443-3574-3 CL €105.00



Fluid Therapy for Veterinary Technicians and Nurses

CHARLOTTE DONOHOE

Ontario Veterinary College, University of Guelph

- ❖ Comprehensive resource on administering fluid therapy
- ❖ Encompasses both basic principles and procedures and more advanced information
- ❖ Highlights potential nursing concerns and complications
- ❖ Clearly defines the technician's responsibilities

READERSHIP: Veterinary technicians, especially those with an emergency and critical care specialty, veterinary technician students

APR 2012 232PP 978-0-813-81484-1 PR €39.90



Nursing the Feline Patient

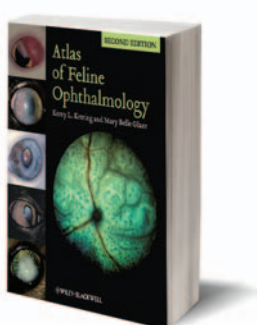
LINDA E. SCHMELTZER & GARY D. NORSWORTHY

Both of Alamo Feline Health Center, USA

- ❖ Includes information relevant to the unique nursing needs of feline patients from the exam room to the surgical suite
- ❖ Highlights common diseases of the cat with sections on pathophysiology, diagnostic tests, treatment options and client education tips
- ❖ Contains over 300 full color clinical photographs

READERSHIP: Veterinary technicians, veterinary technician students

APR 2012 240PP 978-0-470-95901-5 PR €48.90



Atlas of Feline Ophthalmology

2nd Edition

KERRY L. KETRIN & MARY BELLE GLAZE

Gulf Coast Animal Eye Clinic

- ❖ Provides a compendium of high-quality color images of the feline eye
- ❖ Focuses on the identification of diseases, conditions, and injuries affecting the eye
- ❖ Includes both normal and pathologic ocular conditions
- ❖ Acts as a diagnostic tool, with therapeutic information omitted by design
- ❖ Aids clinicians in using ocular examinations to diagnose systemic disease
- ❖ Designed for easy reference, with the book divided into sections according to ocular anatomical structures

READERSHIP: Small animal and feline practitioners, veterinary students, ophthalmologists and residents

MAR 2012 176PP 978-0-470-95874-2 PR €81.90

Blackwell's Five-Minute Veterinary Consult

Canine and Feline Mobile

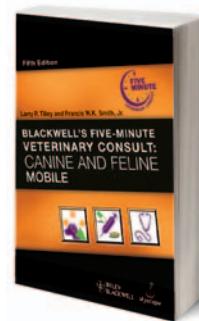
LARRY P. TILLEY & FRANCIS W.K. SMITH

Dr. Tilley & Associates, USA; Tufts University, School of Veterinary Medicine, USA

- ❖ The most widely used single, comprehensive resource on diseases and clinical problems in dogs and cats
- ❖ Fully revised to reflect the latest research, with dozens of topics new to the Fifth Edition
- ❖ Fast, affordable access to the accumulated wisdom of hundreds of veterinary experts
- ❖ Essential information for the student or veterinary practitioner
- ❖ Quick and easy searching either by alphabetical listing or by specialty
- ❖ Available for BlackBerry, iPhone/iPod Touch, Palm, Symbian, Pocket PC, and more

READERSHIP: Practicing veterinarians, veterinary students

DEC 2011 4PP 978-0-470-96036-3 TBA TBA



Principles of Animal Care

Promoting Patient Health through Preventative Nursing

KIMM WUESTENBERG

Pima North Animal Hospital, Arizona, USA

- ❖ Provides practical how-to guidance on performing tasks associated with veterinary care
- ❖ Focuses on avoiding complications, ensuring that the treatment doesn't introduce new health issues
- ❖ Offers step-by-step descriptions of the basic skills required of veterinary technicians and assistants
- ❖ Gives hands-on, clinically relevant information for assessing, treating, and monitoring small animal patients
- ❖ Covers topics ranging from basic hygiene and feeding to perioperative management and hospice care

READERSHIP: Veterinary nurses, technicians, assistants and all those involved in clinical animal care

APR 2012 256PP 978-0-813-80514-6 PR €32.90



Small Animal Radiographic Techniques and Positioning

Susie Ayers

Virginia-Maryland Regional College of Veterinary Medicine, USA

- ❖ Highly illustrated, with over 300 photographs and radiographs
- ❖ Includes electronic access to the photographs and radiographs used in the book on a companion website
- ❖ Discusses the technical factors, equipment and techniques associated with digital radiography
- ❖ Covers imaging of dogs, cats, birds, and common exotics

READERSHIP: Veterinary technicians and nurses in practice, veterinary technician students, veterinary nurse students

MAY 2012 272PP 978-0-813-81152-9 PR €51.90



Canine and Feline Dermatology Drug Handbook

SANDRA KOCH, SHEILA TORRES & DONALD PLUMB

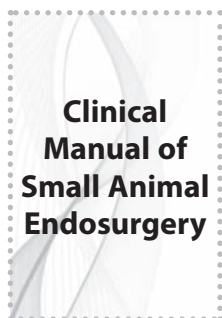
College of Veterinary Medicine, University of Minnesota, USA; Stockholm, Wisconsin, USA

- ❖ A comprehensive handbook summarising dermatological drugs for the feline and canine patient
- ❖ Covers oral, topical and injectable medications for cats and dogs as well as indications, contraindications, mechanism of action, dosage, formulations, side-effects, drug interactions and monitoring
- ❖ Lists both American and European trade names
- ❖ An essential reference for quick daily use in a clinical setting

READERSHIP: Veterinary dermatologists and practitioners with a special interest in dermatology.

MAR 2012 512PP 978-1-4051-9896-7 PR €53.90





Clinical Manual of Small Animal Endosurgery

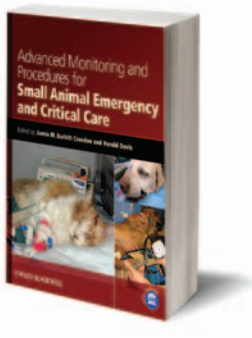
ROSA RAGNI & ALASDAIR HOTSTON MOORE

The Blue Cross Animal Hospital, London, UK; Rosemary Lodge Veterinary Hospital, Bath, UK

- ❖ A practical clinical manual on rigid endoscopy and endosurgery in small animal practice
- ❖ Emphasises practical use of the equipment, with detailed information on how to carry out investigations and procedures
- ❖ Includes a chapter on exotic species
- ❖ Highly illustrated throughout

READERSHIP: Small animal veterinarians especially those with an interest in endoscopy and endosurgery

JUNE 2012 400PP 978-1-4051-9001-5 CL €71.90



Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care

JAMIE M. BURKITT CREEDON & HAROLD DAVIS

Red Bank Veterinary Hospital Network; University of California - Davis

- ❖ Comprehensive, practical reference for advanced technical procedures in emergency and critical care
- ❖ Organized in a consistent, easy-to-use format
- ❖ Provides reliable, hands-on information for the proper performance of monitoring and critical care protocols
- ❖ Encompasses both medical and technical aspects
- ❖ Written by an expert team of veterinarians and technicians

READERSHIP: Veterinary technicians and nurses, especially those specializing in emergency and critical care, veterinarians, veterinary students

MAY 2012 944PP 978-0-813-81337-0 PR €57.90



Practical Veterinary Diagnostic Imaging

2nd Edition

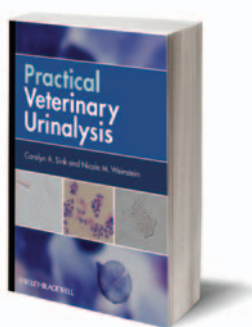
SUZANNE EASTON

University of the West of England, UK

- ❖ An essential guide to the various diagnostic imaging modalities that are used in veterinary practice
- ❖ Starts from basic principles, moving on to discussion of more sophisticated equipment and techniques
- ❖ Covers legislation and safety issues and their impact on the veterinary practice
- ❖ Includes clear line diagrams and photographs, revision points and self-assessment questions in each chapter making this book ideal for study

READERSHIP: Student and qualified veterinary nurses, veterinary students, veterinarians in general practice

JUNE 2012 328PP 978-0-470-65648-8 PR €44.90



Practical Veterinary Urinalysis

CAROLYN A. SINK & NICOLE M. WEINSTEIN

Both of Virginia-Maryland College of Veterinary Medicine, Virginia, USA

- ❖ Offers thorough, practical information on accurately producing and interpreting urinalysis results
- ❖ Includes high-quality clinical photographs to aid in identification and diagnosis
- ❖ Focuses on clinically relevant information for incorporating urinalysis into veterinary practice
- ❖ Ideal bench-top laboratory manual for the evaluation of urine as a diagnostic tool
- ❖ Presents concise, comprehensive guidance for veterinarians, veterinary students, and veterinary technicians

READERSHIP: Practicing vets, veterinary students, veterinary technicians, clinical pathologists and clinical pathology residents

MAR 2012 184PP 978-0-470-95824-7 PR €47.90

Veterinary Clinical Parasitology

8th Edition

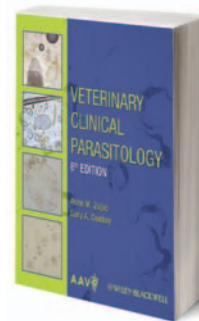
ANNE M. ZAJAC & GARY A. CONBOY

Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA; University of Prince Edward Island

- ❖ Provides a practical resource for learning the techniques used in diagnosing parasites under the auspices of the American Association of Veterinary Parasitologists (AAVP)
- ❖ This new edition redesigned for easier access to information, with a colorful page design and tabs identifying individual sections
- ❖ Offers a new chapter on immunologic and molecular diagnosis, as well as new images and new sections throughout
- ❖ Includes a companion website offering the images from the book electronically

READERSHIP: Veterinarians and veterinary technicians

FEB 2012 336PP 978-0-813-82053-8 PR €57.90



Ophthalmology of Exotic Pets

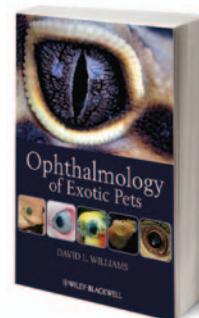
David L. Williams

Department of Clinical Veterinary Medicine, University of Cambridge, UK

- ❖ A quick reference guide covering the diagnosis and treatment of eye disease in a range of exotic companion animal species
- ❖ Discusses lagomorphs, rodents, reptiles, birds, amphibians and fish
- ❖ Offers clear guidance for species-specific treatment and facilitates extrapolations from the cat or dog to the exotic eye
- ❖ Highly illustrated with colour photographs

READERSHIP: Veterinary practitioners and students with an interest in exotic pet species, as well as for veterinary ophthalmologists.

MAR 2012 272PP 978-1-4443-3041-0 PR €51.90



Laboratory Exercises in Microbiology

4th Edition

ROBERT A. POLLACK

Nassau Community College, USA

- ❖ Presents exercises and experiments covered in a 1 or 2-semester undergraduate microbiology laboratory course for allied health students
- ❖ The labs are introduced in a clear and concise manner, while maintaining a student-friendly tone
- ❖ The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology
- ❖ It also covers methods that allow the safe movement or transfer of microbial cells from one type of growth environment, classification and identification of microbes, microbial biochemistry, medical, food and environmental microbiology

READERSHIP: Undergraduate allied health students

JAN 2012 298PP 978-1-1181-3525-9 PR €109.00



Annual Plant Reviews, Volume 44, The Plant Hormone Ethylene

MICHAEL T. MCMANUS

Massey University, New Zealand

- ❖ Ethylene is a naturally occurring regulator of growth and development in plants
- ❖ This new volume in Wiley-Blackwell's prestigious *Annual Plant Reviews* provides comprehensive coverage of all major aspects of this important plant hormone
- ❖ Contributions from leading researchers worldwide

READERSHIP: Plant scientists, biochemists, crop scientists and chemists; all those involved in research and teaching in the areas of plant growth and development; libraries in universities and research establishments teaching related subjects

SERIES: ANNUAL PLANT REVIEWS

APR 2012 352PP 978-1-4443-3003-8 CL €135.00

**Annual Plant
Reviews,
Volume 44,
The Plant
Hormone
Ethylene**

Annual Plant Reviews, Volume 45, The Evolution of Plant Form

Annual Plant Reviews, Volume 45, The Evolution of Plant Form

BARBARA A. AMBROSE & MICHAEL D. PURUGGANAN

The New York Botanical Garden, USA; New York University, USA

- ❖ This exciting volume in Wiley-Blackwell's *Annual Plant Reviews* approaches the subject from a diversity of scientific perspectives, bringing together studies of genomics, palaeobotany, developmental genetics and ecological genetics
- ❖ Essential information for plant scientists and evolutionary biologists
- ❖ Highly respected editors and international contributing authors

READERSHIP: Plant scientists, evolutionary biologists, plant molecular biologists, cell biologists, biochemists, morphologists; libraries in all universities and research establishments where biological sciences are studied and taught

SERIES: ANNUAL PLANT REVIEWS

JUN 2012 352PP 978-1-4443-3001-4 CL €135.00



Improving Crop Resistance to Abiotic Stress

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

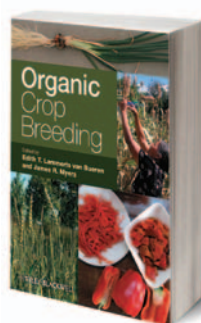
Int. Centre for Genetic Engin. and Biotechnology, India; Int. Centre for Genetic Engin. and Biotechnology, India; Universitat de Barcelona, Spain; Int. Centre for Genetic Engin. and Biotechnology, India

- ❖ A comprehensive multi-volume set focusing on the most important topic in crop research in the 21st century
- ❖ Gives the latest update on improving crop resistance against abiotic stress through proteomics, genomics and metabolomics methods allowing for the need for rapid and complete analysis of the complete physiology of crop plants
- ❖ Well balanced international mix of contributors from industry and academia

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

FEB 2012 1550PP 978-3-527-32840-6 CL €479.00

INTRODUCTORY PRICE £325.00 €399.00 VALID UNTIL MAY 2012



Organic Crop Breeding

EDITH LAMMERTS VAN BUEREN & JAMES R. MYERS

Wageningen University, The Netherlands; Oregon State University, USA

- ❖ Provides the most current information on the development of specific varieties to meet the requirements of organic production systems
- ❖ Valuable coverage of breeding for key traits in organic crops such as crop quality, weed suppression, disease and pest management issues
- ❖ Includes a wide variety of crop-specific breeding case studies from crops ranging from carrots to wheat
- ❖ Edited by two leading researchers in the field of organic crop breeding

READERSHIP: Crop scientists, seed scientists, breeders, geneticists, organic crop researchers, research institutions, government agencies, advanced graduate students studying crop breeding, genetics, and organic crop producers

APR 2012 320PP 978-0-470-95858-2 CL €122.00



Recent Advances and New Species in Aquaculture

RAVI FOTEDAR & BRUCE PHILLIPS

Both of Curtin University of Technology Western Australia

- ❖ Contains the latest must-have information on species new to aquaculture and documents the most important technological innovations of the past decade
- ❖ Focuses explicitly on the ever-changing face of aquaculture, providing core scientific and commercially useful information on the remarkable growth in aquaculture production and in the advancement of new technological tools
- ❖ An essential purchase for anyone involved in or about to enter into the aquaculture industry

READERSHIP: Anyone involved in farming aquatic products, libraries in all universities and research establishments that teach aquaculture, fish biology, aquatic and environmental sciences and fisheries

SEPT 2011 416PP 978-1-4051-7664-4 CL €169.00

Livestock Epigenetics

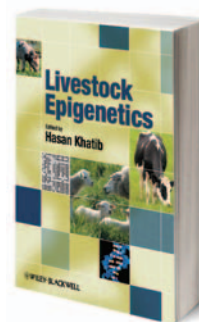
HASAN KHATIB

University of Wisconsin-Madison, USA

- ❖ First volume to focus solely on epigenetics research on economically important livestock species
- ❖ Looks at the impacts epigenetics has on many key traits including growth, muscle development and reproduction
- ❖ Valuable source of comparative data for researchers working on epigenetics of humans and other organisms
- ❖ Written by a global team of leading researchers in the field of epigenetic research

READERSHIP: Animal scientists, cellular and molecular biologists, animal geneticists, animal epigenetics researchers, research institutes, biomedical researchers, advanced students

APR 2012 200PP 978-0-470-95859-9 CL €169.00



Biodiversity and Insect Pests

Key Issues for Sustainable Management

GEOFF M. GURR, STEPHEN D. WRATTEN & WILLIAM E. SNYDER

Charles Sturt University, Australia; Lincoln University, New Zealand; Washington State University, USA

- ❖ Comprehensive and up-to-date synthesis and review of an important and rapidly expanding area of pest management
- ❖ Comprehensive coverage including underpinning scientific theories, broader influence of sociology and economics and details of successful implementation
- ❖ Recognised leaders in the field have edited and contributed chapters
- ❖ Wide geographical reach of authors and material including case studies

READERSHIP: Senior undergraduate students, graduate students and researchers of applied entomology, pest management and crop protection; also applied ecologists, conservation biologists and scientists involved in the assessment of ecosystem services

APR 2012 280PP 978-0-470-65686-0 CL €97.90



Insect Outbreaks Revisited

PEDRO BARBOSA, DEBORAH LETOURNEAU & ANURAG AGRAWAL

University of Maryland, USA; University of California, USA; Cornell University, USA

- ❖ Explores new models to help predict insect outbreaks which can threaten crops, human health, livestock or wildlife
- ❖ Contributions from the world's leading researchers in this area
- ❖ First comprehensive summary of this area since 1988

READERSHIP: Senior undergraduate and graduate students in ecology, population biology and entomology, landowners, pest management personnel and government and industry scientists doing research on pest insects, population dynamics and mechanisms of changes in insect population size

APR 2012 515PP 978-1-4443-3759-4 CL €83.90



Wildlife Search and Rescue

A Guide for First Responders

REBECCA DMYTRYK

WildRescue, USA

- ❖ A comprehensive guide on rescue, stabilization, transport and rehabilitation of sick, injured and orphaned wildlife
- ❖ Covers the fundamentals of wildlife rescue, from phone to field, including safe and successful capture strategies, handling and restraint techniques and initial aid
- ❖ Crucial subject in the area of wildlife management
- ❖ Written by a pioneer of the subject, who runs a wildlife rescue service in California

READERSHIP: Wildlife managers, park rangers and wardens, wildlife vets, zoo professionals, conservation biologists and students of conservation biology, wildlife management, wildlife veterinary science, zoo management and volunteer conservation activists

FEB 2011 248PP 978-0-470-65511-5 PR €44.90 / 978-0-470-65510-8 CL €112.00



Historical Environmental Variation in Conservation and Natural Resource Management

Historical Environmental Variation in Conservation and Natural Resource Management

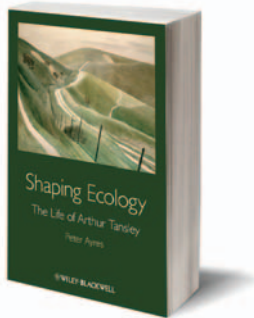
JOHN A. WIENS, CLAUDIA REGAN, GREG HAYWARD & HUGH D. SAFFORD

The Nature Conservancy, USA; US Forest Service, USA; US Forest Service, USA; University of California, USA

- ❖ Explores how evidence of past environmental change be applied to planning decisions in the light of the present global climate change scenario
- ❖ Summarizes a very complex subject how to apply data from the past to present situations
- ❖ One of the most important topics in the climate change and long term decision-making debate

READERSHIP: All those entrusted with managing and conserving natural resources: land-use planners, ecologists, fire scientists, natural resource policy makers, conservation biologists, refuge and preserve managers, and field practitioners

JUN 2012 300PP 978-1-4443-3793-8 PR €51.90 / 978-1-4443-3792-1 CL €122.00



Shaping Ecology

The Life of Arthur Tansley

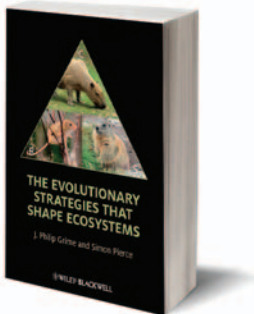
PETER G. AYRES

Lancaster University, UK

- ❖ First biography of one of the giants of ecology who dominated the field through the first half of the 20th century
- ❖ Shows how Tansley defined the field of ecology, forming the first ecological society in the world, The British Ecological Society
- ❖ Explores his friendships with some of the leading figures of the day; Julian Huxley, Bertrand Russell and Marie Stopes

READERSHIP: Students and professional ecologists, botanists, conservation biologists, and historians of science; amateur naturalists and general public interested in the history of the natural sciences

MAY 2012 200PP 978-0-470-67154-2 PR €25.90 / 978-0-470-67156-6 CL €83.90



The Evolutionary Strategies that Shape Ecosystems

J. PHILIP GRIME & SIMON PIERCE

University of Sheffield, UK; University of Milan, Italy

- ❖ A provocative and original book that extends the author's views on plant communities, animal populations and other groups
- ❖ Philip Grime is one of the most original and provocative thinkers in ecology today
- ❖ A must-read for all evolutionary ecologists

READERSHIP: Advanced undergraduates, graduate students in ecology and evolutionary biology, lecturers and instructors in these subjects and libraries where ecology and evolutionary biology are taught

APR 2012 264PP 978-0-470-67482-6 PR €51.90 / 978-0-470-67481-9 CL €105.00

Systematics

Systematics

WARD C. WHEELER

American Museum of Natural History, USA

- ❖ Comprehensive textbook of systematics aimed at senior level undergraduates and graduates
- ❖ Covers the key methods and theory of biological systematics
- ❖ Includes exercises to enhance familiarity with common concepts and tools (e.g. MUSCLE, MESQUITE, TNT, POYE, MrBayes, RAXML)

READERSHIP: Senior undergraduate and graduate students of Systematics, Phylogenetics, Molecular Evolution, Sequence Alignment, Computational Biology

MAY 2012 400PP 978-0-470-67169-6 PR €57.90 / 978-0-470-67170-2 CL €122.00



TEXT BOOK

Restoration Ecology

The New Frontier
2nd Edition

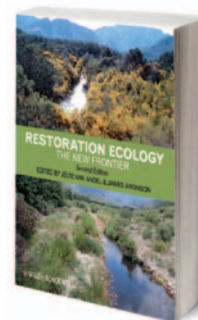
JELTE VAN ANDEL & JAMES ARONSON

University of Groningen, Netherlands; Centre National de La Recherche Scientifique, France

- ❖ Enlarged, enhanced and internationalised edition of the first restoration ecology textbook to be published
- ❖ While the first edition focused on ecosystems and landscapes in Europe, this new edition covers biomes and contexts all over the world
- ❖ Several new chapters deal with broad issues such as biological invasions, climate change, and agricultural land abandonment as they relate to restoration science and ecological restoration
- ❖ Features new chapters and case studies from Australia, North America, and the tropics

READERSHIP: Senior undergraduate and especially graduate students on courses in Restoration Ecology, Applied Ecology and Conservation Biology

APR 2012 408PP 978-1-4443-3636-8 PR €57.90 / 978-1-4443-3635-1 CL €122.00



A Guide to Academia

Getting into and Surviving Grad School, Postdocs and a Research Job

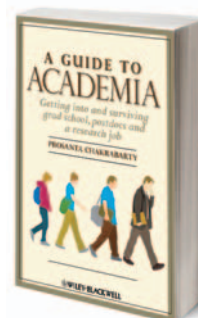
PROSANTA CHAKRABARTY

Louisiana State University and LSU Museum of Natural Sciences, USA

- ❖ A practical "how-to" guide for students considering a career in academia in the natural sciences
- ❖ Provides real-world examples of successful applications and interview techniques
- ❖ Organised along a natural career timeline, beginning with undergraduate applications to graduate study and concluding with achieving a tenure-track position
- ❖ Includes sections on taking the GRE, writing your first CV, creating a professional website and getting published in peer reviewed journals

READERSHIP: Undergraduate, graduate students, post-docs, and pre-tenure track instructors in the natural sciences.

MAY 2012 224PP 978-0-470-96041-7 PR €38.90



Structured Decision Making

A Practical Guide to Environmental Management Choices

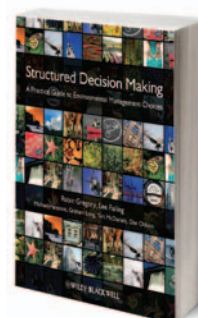
ROBIN GREGORY, LEE FAILING, MICHAEL HARSTONE, GRAHAM LONG, TIM McDANIELS & DAN OHLSON

Decision Research, USA; Compass Resource Management, Canada; Compass Resource Management, Canada; Compass Resource Management, Canada; University of British Columbia, Canada; Compass Resource Management, Canada

- ❖ Guide on how to apply structured decision making techniques to environmental management problems using a decision analytic framework
- ❖ Introductory guide to a popular form of decision making process aimed at environmental managers and scientists
- ❖ Author's review key methods and discuss case-study examples based in their experiences in communities, boardrooms, and stakeholder meetings

READERSHIP: Environmental managers in the government, industry, and community groups as well as Aboriginal populations and a range of interest-based groups; courses in environmental decision making or for courses in planning, ecology, resource economics, or environmental management

FEB 2012 368PP 978-1-4443-3342-8 PR €48.90 / 978-1-4443-3341-1 CL €105.00



Life in Europe Under Climate Change

JOSEPH ALCAMO & JØRGEN E. OLESEN

Center for Environmental Systems Research, University of Kassel, Germany; Department of Agroecology and Environment, Aarhus University, Denmark

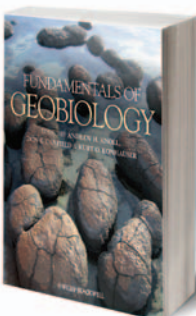
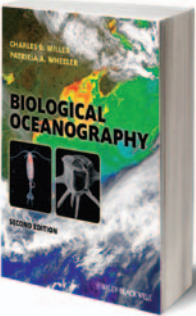
- ❖ This ground-breaking title is the first to synthesis the IPCC (Intergovernmental Panel on Climate Change) report for a general, non-specialist readership
- ❖ Therefore, crucial information about climate change is now widely available to teachers, students, political leaders, and citizens
- ❖ Looks at a wide variety of issues - agriculture, fisheries, natural habitats, water supply, human health and so on
- ❖ Provides European environmental managers, planners and scientists with clear information on which to base decisions on funding, policy and research

READERSHIP: Among others, researchers and policy makers who want a non-specialist, multi-disciplinary overview of the consequences of climate change. For example, environmental specialists or scientific researchers in universities. Also can be supplementary reading for geography or environmental science courses

MAR 2012 312PP 978-1-4051-9618-5 PR €35.90 / 978-1-4051-9619-2 CL €97.90



Biological Sampling in the Deep Sea



Biological Sampling in the Deep Sea

MALCOLM CLARK, MIREILLE CONSALVEY & ASHLEY ROWDEN

All of National Institute of Water and Atmospheric Research, New Zealand

- ❖ Compiled as part of the Global Census of Marine Life, the world's top scientists in the area provide full details of all major sampling techniques for the biggest habitat on earth: the deep sea
- ❖ The Census of Marine Life has a number of field programs investigating the ecology of deep-sea habitats of which CenSeam (seamounts) is one
- ❖ The steering group of CenSeam have selected the authorship of this landmark book from many of the world's top scientists in this area
- ❖ Comprehensive, in-depth coverage of the deep sea, which covers 70% of the world's surface and contains unknown and untapped resources

READERSHIP: Essential purchase for all scientists working with deep sea environments, including marine biologists, fisheries scientists, ecologists, oceanographers and environmental scientists; all universities where biological sciences, fisheries, and oceanography are studied and taught.

JUN 2012 488PP 978-0-470-65674-7 CL €155.00

Biological Oceanography

2nd Edition

CHARLES B. MILLER & PATRICIA A. WHEELER

Both of Oregon State University, USA

- ❖ New, larger edition of firmly established advanced textbook on biological oceanography
- ❖ The only textbook on the market for this subject at this level
- ❖ Assumes no knowledge of physical or chemical oceanography but refers to suitable sources for further information
- ❖ Includes a new chapter on Pelagic Food Webs and updates current chapters at the request of instructors using the first edition

READERSHIP: Graduate and undergraduates students in oceanography and marine biology courses, in departments of oceanography and marine science and crosses over into ecology, biology, physical sciences of the ocean, biochemistry, and climatology, examining the biological processes of the oceans

APR 2012 500PP 978-1-4443-3302-2 PR €57.90 / 978-1-4443-3301-5 CL €119.00

Speleothem Science

From Process to Past Environments

IAN J. FAIRCHILD & ANDY BAKER

University of Birmingham, UK; The University of New South Wales, Australia

- ❖ The first book on speleothems suitable for a student audience based on two review papers on the subject by the authors
- ❖ A multidisciplinary approach is emphasized in this book to make it relevant and of heuristic value to many specialists
- ❖ Aims to dissect what a previous generation of palaeoclimatologists thought to be mysteriously complex phenomena to show how a higher level of process understanding will allow the enormous potential of speleothems studies in palaeoenvironmental analysis to be fulfilled

READERSHIP: Advanced undergraduates and researchers studying paleoclimatology and Quaternary science, geochemists/sedimentologists studying karsts and caves, climate, those studying geomorphology, carbonate chemistry, carbonate geology, aqueous geochemistry and soils

SERIES: BLACKWELL QUATERNARY GEOSCIENCE SERIES

APR 2012 416PP 978-1-4051-9620-8 CL €57.90

Fundamentals of Geobiology

ANDY H. KNOLL, DON CANFIELD & KURT KONHAUSER

Harvard University, USA; University of Southern Denmark, Denmark; University of Alberta, Canada

- ❖ A modern synthesis of the subject of geobiology
- ❖ Sets out a coherent set of principles that underpin the developing field of geobiology
- ❖ Provides intellectually rich but concise summaries of key topics in geobiology, with topics chosen to provide a logical view of this growing field
- ❖ Acts as a foundational text that speeds the intellectual dissemination of those principles

READERSHIP: Advanced undergraduates, graduates and PhDs in earth and biological science programmes worldwide; also a wide selection of academic and professional earth and biological scientists in areas such as geomicrobiology, microbiology, paleontology, geochemistry, evolution

APR 2012 480PP 978-1-4051-8752-7 PR €48.90

Dinosaur Paleobiology

STEPHEN BRUSATTE

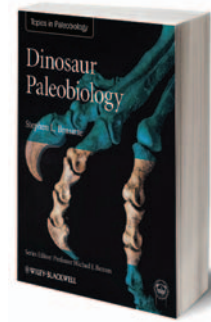
Columbia University, USA

- ❖ Introduces the latest thinking on dinosaur paleobiology and evolution to non-specialists
- ❖ Bridges biology/paleontology divide
- ❖ Uses Tyrannosaurs as thematic thread running through chapters
- ❖ Highlights new research methods and results as well as areas of controversy and areas for future research

READERSHIP: Advanced undergraduates, graduate students, and researchers from a range of scientific disciplines that may not have much knowledge about dinosaurs

SERIES: TOPA TOPICS IN PALEOBIOLOGY

MAY 2012 320PP 978-0-470-65658-7 PR €44.90 / 978-0-470-65657-0 CL €112.00



Remote Sensing of Rivers

Management and Applications

PATRICE CARBONNEAU & HERVÉ PIÉGAY

University of Durham, UK; CNRS, France

- ❖ Provides a comprehensive overview of recent progress in the field of remote sensing of rivers following a decade of very clear and important progress in term of available techniques and thematic applications
- ❖ A specific focus on management applications in a period of increasing demands on managers to characterise river features and their evolution at different spatial scales (implementation of the Water Framework Directive in Europe; collection of objective data for monitoring restoration sites)
- ❖ Includes cutting edge technology and discusses a wide-range of environmental problems: land-use planning, geomorphological changes, ecological habitats, topography, hydrology, natural hazards, and social perception

READERSHIP: River managers, river engineers, planners, river conservationists and Academics, Masters and PhD students in Environmental Sciences

JUN 2012 448PP 978-0-470-71427-0 CL €77.90



Sediments, Morphology and Sedimentary Processes on Continental Shelves (Special Publication 44 of the IAS)

Advances in technologies, research and applications

MICHAEL Z. LI, CHRISTOPHER R. SHERWOOD & PHILIP R. HILL

Geological Survey of Canada, Canada; US Geological Survey, USA; Natural Resources Canada, Canada

- ❖ Uniquely blends cutting-edge research and state-of-the art review articles that take stock of new advances in multibeam mapping and sediment transport technologies, spatial analysis and modelling, and the applications of these advances to the understanding of shelf sediments, morphodynamics, and sedimentary processes
- ❖ Case studies illustrate how these approaches support best practice in habitat mapping and ocean management
- ❖ Provides a mix of papers focusing on technological advances, integration of shelf morphology and processes, and the application of these advances to coastal and ocean management

READERSHIP: A reference for professional marine scientists and as advanced text for students in marine geology, sedimentology and oceanography

SERIES: INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS SERIES

MAR 2012 420PP 978-1-4443-5082-1 CL €112.00



Dunes

Dynamics, Morphology and Geological History

ANDREW WARREN

University College London, UK

- ❖ The only book to cover all dunes, terrestrial and in the Solar System, in deserts, on coasts, and in the past
- ❖ Represents the most current update on the research of dunes for over a decade
- ❖ Incorporates the latest research to come out of China where the field is most rapidly expanding
- ❖ Discusses the most recent range of skills and technology now focused on the study of dunes

READERSHIP: Specialists in all branches of Aeolian geomorphology, research students, advanced-level undergraduates, managers of dunes (especially of coastal dunes), Quaternary scientists

SERIES: RGS-IBG BOOK SERIES

JUN 2012 304PP 978-1-4443-3968-0 PR €32.90 / 978-1-4443-3969-7 CL €77.90





Coffee

Emerging Health Effects and Disease Prevention

YIFANG CHU

Kraft Foods Global Inc, USA

- ❖ Presents a contemporary, systematic, balanced overview of the newly understood benefits of coffee
- ❖ Explores both positive and negative impacts off coffee on health and disease
- ❖ Thorough coverage of the chemistry of coffee and bioavailability of its constituents
- ❖ Compares coffee to other caffeinated drinks including tea, cocoa, and beverages with added caffeine

READERSHIP: Food, health and nutrition professionals in academia, industry, and governmental and regulatory agencies, food scientists, food chemists and food technologists in research and development and food product developers, food consultants and food marketers and management, journalists and consultants

APR 2012 336PP 978-0-470-95878-0 CL €155.00



Sweeteners and Sugar Alternatives in Food Technology

Sweeteners and Sugar Alternatives in Food Technology

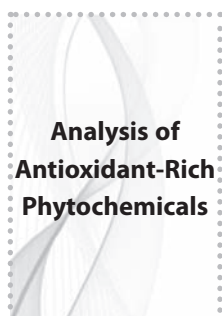
KAY O'DONNELL & MALCOLM KEARSLEY

Both of Cadbury Science Centre, UK

- ❖ Enables food manufacturers to understand the latest sweetening choices for the lucrative low-sugar and sugar-free foods markets
- ❖ Information is presented on a product-by-product basis, using tabulated data where relevant within chapters, and in summary at the end of each section
- ❖ Gives functional, technical, physiological, nutritional, applications, safety and regulatory perspectives
- ❖ Includes an extensive section on health and nutritional aspects one of the major driving forces for a new food product

READERSHIP: Food scientists and technologists; new product developers; ingredients suppliers; libraries of institutions which teach and research food science

JUN 2012 432PP 978-0-470-65968-7 CL €155.00



Analysis of Antioxidant-Rich Phytochemicals

Analysis of Antioxidant-Rich Phytochemicals

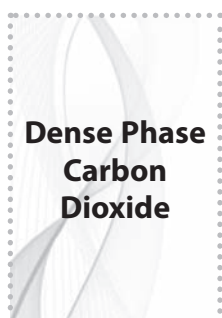
ZHIMIN XU & LUKE R. HOWARD

Louisiana State University, USA; University of Arkansas, USA

- ❖ Covers and summarizes the details of sample preparation procedures and methods developed to identify and quantify various types of natural antioxidants in foods
- ❖ Systematically reviews and summarises the various analytical methods necessary for each type of natural antioxidant in different food sources
- ❖ Describes the important food applications and health-promoting functions of the major antioxidant phytochemicals

READERSHIP: Food scientists and biomedical scientists in academic research institutes and food companies, researchers and professionals in the nutraceutical and functional food industries; food chemists working with fruits and vegetables; food quality specialists and food engineers; post-harvest physiologists and food companies and dietary supplement manufacturers that develop functional foods

APR 2012 420PP 978-0-813-82391-1 CL €155.00



Dense Phase Carbon Dioxide

Dense Phase Carbon Dioxide

MURAT O. BALABAN

University of Florida, USA

- ❖ Brings into one volume the diverse aspects and the accumulated knowledge regarding Dense Phase Carbon Dioxide (DPCD) covering theory, microbial, enzymatic, quality, and process related issues
- ❖ International experts reveal potential applications and future direction of research
- ❖ Nonthermal processing technology with special application to juice, beverage, and dairy industry

READERSHIP: Food scientists and technologists, food engineers and researchers, food safety, quality and production managers, researchers involved with processing temperature-sensitive foods, beverages, flavours and pharmaceuticals, extension specialists, equipment and packaging suppliers, academic institutions with programs in food science

MAY 2012 320PP 978-0-813-80649-5 CL €135.00

Nanotechnology Research Methods for Food and Bioproducts

GRACIELA WILD PADUA & QIN WANG

University of Illinois, USA; University of Maryland, USA

- ❖ Provides techniques to enable scientists to apply cutting edge nanotechnologies to food product development, nutrition, packaging and safety
- ❖ Uniquely describes nanotechnology techniques for the food research professional
- ❖ Covers state-of-the-art technology applications for food and bioproducts
- ❖ Describes pitfalls and limitations of different methods

READERSHIP: Food scientists, food technologists and food engineers in academia, industry and government; marketing and R&D professionals and product development teams in the food industry; food safety and biosecurity managers, and so on

MAY 2012 288PP 978-0-813-81731-6 CL €129.00

**Nanotechnology
Research
Methods for
Food and
Bioproducts**

Sustainable Dairy Production

PETER DE JONG

NIZO Food Researchers, The Netherlands

- ❖ Offers a comprehensive overview of the state of the art in sustainable dairy production
- ❖ Helps the industry to develop more sustainable dairy products through new technologies, implementing life cycle analysis, and upgrading and optimization of their current production lines
- ❖ Explains how to quantify the carbon footprint of a dairy product by using life cycle analysis
- ❖ Includes a chapter on how to market sustainable dairy products

READERSHIP: Dairy scientists, technologists and engineers based in industry, research and educational establishments; more general food scientists and technologists; suppliers of equipment to the dairy industry; global food regulatory bodies

JUN 2012 320PP 978-0-470-65584-9 CL €155.00

**Sustainable
Dairy
Production**

Organic Meat Production and Processing

STEVEN C. RICKE, MICHAEL G. JOHNSON, CORLISS A. O'BRYAN & ELLEN VAN-LOO

All at the University of Arkansas, USA

- ❖ Details the production and processing challenges of organic meat
- ❖ Full coverage of beef, swine, poultry and other organic meat species
- ❖ Special focus on the microbiological food safety of organic meats
- ❖ Extensive discussion of state of the industry, regulatory issues, nutrition, and consumer preferences

READERSHIP: Meat scientists, food scientists and food technologists, food microbiologists, food processing specialists, food product developers, veterinarians and researchers specializing in meat and meat products, QA managers and food safety directors in charge of HACCP and other food safety programs at meat processing establishments

MAY 2012 448PP 978-0-813-82126-9 CL €155.00

**Organic Meat
Production
and Processing**

Tropical and Subtropical Fruit Processing and Packaging

MUHAMMAD SIDDIQ

Michigan State University, USA

- ❖ Unprecedented breadth and depth in coverage of processing, packaging and nutritional quality of tropical and sub-tropical fruits
- ❖ Describes novel processing technologies, their application and potential
- ❖ Examines in detail over 25 tropical and sub-tropical fruits
- ❖ International team of respected editors and authors

READERSHIP: Tropical and sub-tropical fruit industry; food scientists and technologists specialising in processed, fresh and fresh-cut fruits; regulatory agencies and research units specialising in tropical/sub-tropical fruits and fruit processing; food packaging professionals and packaging machinery and materials companies

MAY 2012 548PP 978-0-813-81142-0 CL €202.00

**Tropical and
Subtropical
Fruit
Processing
and
Packaging**

Decontamination of Fresh and Minimally Processed Produce

Decontamination of Fresh and Minimally Processed Produce

V. M. GÓMEZ-LÓPEZ

Central University of Venezuela, Venezuela

- ❖ Provides systematic examination of the different types of decontaminants for fresh and minimally processed produce
- ❖ Comprehensively explores the different effects microbiological, sensory, nutritional and toxicological of these treatments
- ❖ Goes beyond food safety to cover microbial spoilage, vegetable physiology, sensory quality, nutritional and phytochemical content, shelf-life, and regulatory and toxicological issues
- ❖ Chapters gathered from internationally respected experts

READERSHIP: Professionals and management in the fresh and fresh-cut produce industry; fruit and vegetable producers; food microbiologists, food safety and quality assurance personnel; manufacturers of decontamination agents and facilities; sectors that serve produce industry

MAY 2012 576PP 978-0-813-82384-3 CL €155.00



Handbook of Food Process Design

MOHAMMAD SHAFIUR RAHMAN & JASIM AHMED

Polymer Source Inc., Oman; Polymer Source Inc., Canada

- ❖ An in-depth treatment of the design, manufacture and operation of food processing and packaging equipment as well as the design and optimisation of the processes for which the equipment is used
- ❖ Practical advantages and limitations of different systems within various relevant parameters are explained to aid equipment and process design choices
- ❖ Includes over 50 chapters written by an international team of experts
- ❖ 2-volume presentation emphasizes the extensive and comprehensive coverage of the subject

READERSHIP: Engineers working in the food and process industries; students, researchers and teachers in food and chemical engineering university departments; food scientists and technologists

APR 2012 1704PP 978-1-4443-3011-3 CL €510.00
INTRODUCTORY PRE-PUBLICATION PRICE: £325.00 €399.00 VALID UNTIL JULY 2012

GM and non-GM Food Supply Chains

GM and non-GM Food Supply Chains

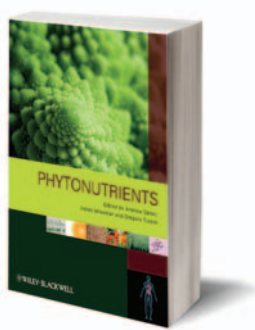
YVES BERTHEAU & JOHN DAVISON

Both of INRA, France

- ❖ Landmark book, from an EU-funded project, looking at the traceability of GM and non-GM foods in global supply chains
- ❖ Enables producers and manufacturers to put systems in place that will ensure customer confidence and compliance with European regulation regarding GM foods
- ❖ Covers the entire food and feed supply chains from seed to shelf
- ❖ Includes practical case studies drawn from industry that consider the technical, economic and ethical aspects of using GMO (genetically modified organism) materials in food

READERSHIP: Food manufacturers, food research institutions and regulatory bodies internationally and will also be of interest to students and researchers of food and agricultural sciences

JUN 2012 608PP 978-1-4443-3778-5 CL €195.00



Phytonutrients

ANDREW SALTER, HELEN WISEMAN & GREGORY TUCKER

University of Nottingham, UK; King's College London, UK; University of Nottingham, UK

- ❖ Explores the latest research in phytonutrients from both the plant science perspective and nutrition perspective making the book equally useful to scientists in both fields
- ❖ The plant science perspective primarily looks at how nutrients are made within the plant and how this may be manipulated to enhance levels or availability
- ❖ The nutrition perspective is more focused on the health benefits; how these food matrices behave during digestion, and, more specifically, the functionality of these nutrients within the body

READERSHIP: A source of valuable information for food manufacturers, food research institutions and regulatory bodies internationally and will also be of interest to students and researchers of food and agricultural sciences

APR 2012 312PP 978-1-4051-3151-3 CL €169.00

Food Microbiology: An Introduction

Third Edition

THOMAS J. MONTVILLE & KARL R. MATTHEWS

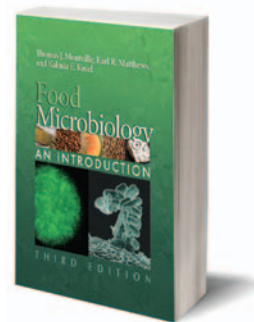
Both of Rutgers University, USA

- ❖ A thoroughly updated, illustrated undergraduate textbook, reviewed by students for depth of coverage and use of terminology appropriate for undergraduates
- ❖ Emerging techniques and applications are highlighted throughout as well as perspective on challenges and opportunities facing bioproduct manufacturing industry
- ❖ Engages students with case studies of current issues in food microbiology
- ❖ Explains the genetics and mechanisms important in food microbiology

READERSHIP: Students and teachers in food microbiology and food safety. Libraries of universities where related courses are taught

SERIES: ASM PRESS (AMERICAN SOCIETY FOR MICROBIOLOGY)

JUN 2012 470PP 978-1-5558-1636-0 CL TBA



Food Safety

The Science of Keeping Food Safe

IAN SHAW

University of Canterbury, New Zealand

- ❖ An introductory textbook to bringing together all the topics necessary for a rounded understanding of food safety
- ❖ Each chapter builds from the basic principles to advanced topics, catering for a range of knowledge levels
- ❖ The author has experience in education and industry and has also advised government bodies

READERSHIP: Undergraduate students studying food science and technology, food microbiology and general microbiology; also suitable for scientists and others in the food industry who require a good grounding in the various topics related to keeping food safety; Government and regulatory personnel involved in food safety

JUN 2012 352PP 978-1-4443-3722-8 CL €44.90



Food and Industrial Bioproducts and Bioprocessing

NURHAN T. DUNFORD

Oklahoma State University, USA

- ❖ Presents the major food and industrial applications of bioprocessing, including advanced food processing techniques and bioproduct development
- ❖ Focuses on food applications, with industrial applications highlighted as well
- ❖ Emerging techniques and applications are highlighted throughout
- ❖ Gives perspective on challenges and opportunities facing bioproduct manufacturing industry

READERSHIP: Researchers in food science, agricultural and biosystems engineering; professionals in bioprocessing and bioproduct development; food engineers and food technologists; food processing R&D professionals, process engineers and chemical engineers, biotechnology and bioengineering professionals, professional libraries in industry, government and universities

APR 2012 392PP 978-0-813-82105-4 CL €155.00



Food Oral Processing

Fundamentals of Eating and Sensory Perception

JIAN SHE CHEN & LINA ENGELEN

University of Leeds, UK; University of Sydney, Australia

- ❖ Examines the physical, physiological and psychological principles of eating and drinking
- ❖ The first book in this area of research which is of commercial interest to the food industry
- ❖ Emphasis on significance of oral processing for sensory perception, food texture, flavour release, new product development and nutrition

READERSHIP: Food scientists and technologists in industry, academia and research institutions, especially those involved in sensory science and new product development; also of interest to oral physiologists, oral biologists and dentists

APR 2012 320PP 978-1-4443-3012-0 CL €155.00



Product Innovation Toolbox

Product Innovation Toolbox

A Field Guide to Consumer Understanding and Research

MARIA DULCE PAREDES & KANNAPON LOPETCHARAT

Both of Avon Products Consumer Science Department, USA

- ❖ An essential resource for product developers, marketers and technologists who want to implement consumer-centric innovation and are responsible for designing product-testing strategies from upfront innovation to support new product development
- ❖ Offers cutting edge consumer research tools and practical tips for successful and sustainable product innovation
- ❖ Ensures consumer-centric innovation by adaptively linking strategy and designed approach rather than relying on a set of questions and a static test design

READERSHIP: Sensory and consumer research professionals, executives, marketers, managers and practitioners engaged in new product design and development in consumer packaged goods companies, sensory practitioners, product developers, food consultants and market researchers in food and beverage product development, students and faculty in food science and technology

MAY 2012 408PP 978-0-813-82397-3 CL €155.00

Forensic Entomology

An Introduction

2nd Edition

DOROTHY GENNARD

University of Lincoln, UK

- ❖ Fully revised and updated introductory guide for students of Forensic Science, Forensic Biology and Criminology, assuming no prior knowledge of either entomology or biology
- ❖ New pictorial key to aid identification of species and provides information on culturing insects collected from crime scenes
- ❖ Practical tasks and further reading included for each chapter to aid understanding and includes new chapters including aquatic forensic entomology
- ❖ Colour plate section and improved illustrations throughout to assist in the identification of insects associated with the corpse

READERSHIP: Lower level undergraduates studying forensic entomology as part of a degree in forensic science, forensic biology or criminology; Students taking postgraduate conversion courses in forensic science as well as Scene of Crime Officers undertaking diploma studies and Scene Investigating Officers

APR 2012 304PP 978-0-470-68903-5 PR €38.90 / 978-0-470-68902-8 CL €112.00

Forensic Approaches to Buried Remains

JOHN HUNTER, BARRIE SIMPSON & CAROLINE STURDY COLLS

All at University of Birmingham, UK

- ❖ A unique, up-to-date and accessible approach to the developing field of forensic archaeology
- ❖ Includes new areas of multidisciplinary research and practice, innovative techniques and methodologies and case studies relating to the variety of search and recovery scenarios the forensic archaeologist may encounter
- ❖ Covers the recovery, sampling strategies, spatial relevance and dating of multiple evidence types in multiple burial scenarios
- ❖ Part of the Forensic Science Society's *Essential Forensic Science* book series

READERSHIP: Advanced undergraduate and Masters students taking relevant courses in the subject; these courses could be taken as part of a Forensic Archaeology or Anthropology degree/MSc. Students taking general Forensic Science courses also an invaluable reference for researchers, academics, scene of crime professionals and forensic scientists

SERIES: ESSENTIAL FORENSIC SCIENCE

JUN 2012 256PP 978-0-470-66629-6 PR €44.90 / 978-0-470-66630-2 CL €119.00

Human Population Genetics

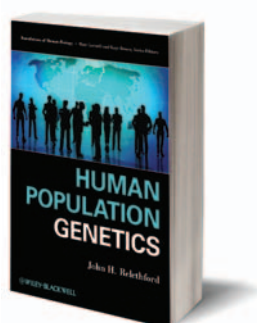
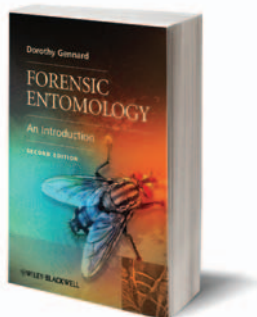
JOHN H. RELETHFORD

State University of New York College at Oneonta, USA

- ❖ Provides an introduction to mathematical population genetics, along with relevant examples from human (and some non-human primate) populations
- ❖ Presents concepts and methods of population genetics that are specific to the study of human populations
- ❖ Takes a more intuitive approach to the underlying mathematics that requires less extensive mathematical background
- ❖ Only high-school algebra is needed, and required concepts of probability are developed in the text
- ❖ Includes topics that are central to human population genetics that are not generally covered in more traditional population genetics texts

READERSHIP: Advanced Undergraduate and Graduate Students interesting in the mechanisms of human microevolution

APR 2012 316PP 978-0-470-46467-0 PR €61.90



Microcirculation Imaging

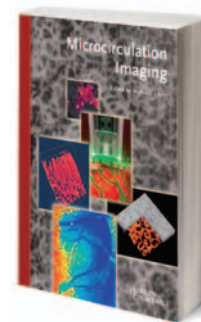
MARTIN J. LEAHY

National University of Ireland, Ireland

- ❖ The ultimate handbook on microcirculation imaging techniques
- ❖ Adopts a multidisciplinary approach with input from physicists, researchers and medical professionals
- ❖ Introduces many different technical approaches for the visualization of microcirculation, including laser Doppler and laser speckle, optical coherence tomography and photo-acoustic tomography
- ❖ Covers everything from basic research to medical applications, providing the technical details while also outlining the respective strengths and weaknesses of each imaging technique

READERSHIP: Physiologists, cancer researchers, neurophysiologists, dermatologists, vessel surgeons, endocrinologists, surgeons

APR 2012 500PP 978-3-527-32894-9 CL €149.00



Microbial Ecology

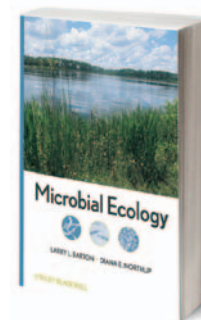
LARRY L. BARTON & DIANA E. NORTHUP

Both of University of New Mexico, USA

- ❖ A completely new text and reference book for the growing field of microbial ecology that concisely yet comprehensively covers traditional issues in ecology, as well as cutting-edge content
- ❖ Information boxes in each chapter to highlight specific microbial ecology issues of particular interest
- ❖ A glossary and key words and a selected reading list for each chapter
- ❖ Mini case studies addressing activities of microorganisms in specific environments

READERSHIP: Senior-level undergraduates and first-year graduates in biology or microbiology; scientists, environmental professionals, and engineers

NOV 2011 440PP 978-0-470-04817-7 CL €87.90



The Evolution of Infectious Agents in Relation to Sex

ANDRÉ NAHMIAS, DAN DANIELSSON & SUSAN BECKMAN NAHMIAS

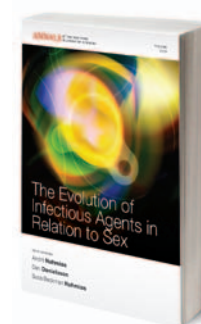
Emory University, USA; University Hospital, Sweden; Emory University, USA

- ❖ Explores the evolution of infectious agents that are sexually-transmitted or transmissible in humans and animals
- ❖ Examines the increased appreciation of the evolutionary interactions with development (EVO-DEVO), the possible epigenetic mechanisms involved in both, and the recognition of the importance of evolution in human and veterinary medicine and public health
- ❖ Takes an interdisciplinary approach to the exchange of newer evolutionary perspectives and technological advances to expand the understanding of the commonality and diversity of these animal and human infectious agents

READERSHIP: Researchers in evolutionary biology, genetics, and reproductive health

SERIES: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

NOV 2011 140PP 978-1-5733-1819-8 PR €112.00



Water and Sanitation-Related Diseases and the Environment

Challenges, Interventions and Preventive Measures

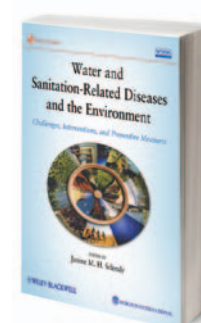
JANINE M. H. SELENDY

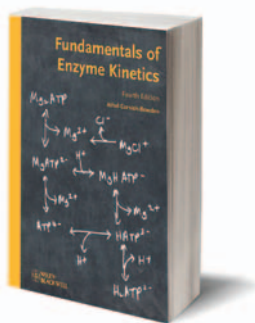
Horizon International and the Horizon Solutions Site, USA

- ❖ Provides a comprehensive understanding of the interconnection among many factors related to water-related diseases, sanitation and hygiene
- ❖ Brings together experts from various specialties to address each area covered and to assist in bringing about the understanding of those interconnections
- ❖ Includes examples of successful interventions with knowledge about how they were brought about so that information can be used to replicate the initiative in full or in part
- ❖ Provides an appreciation of the concerns and solutions addressed from an international perspective with high and low technological solutions

READERSHIP: Graduate students; postdoctoral scholars; Professionals in infectious disease, public health and medicine, chemical and environmental engineering, international affairs; Professionals in disease prevention, public policy, government and non-government organizations

NOV 2011 552PP 978-0-470-52785-6 PR €122.00





Fundamentals of Enzyme Kinetics

4th Edition

ATHEL CORNISH-BOWDEN

CNRS, France

- ❖ Fourth edition of one of the most successful textbooks on the topic
- ❖ Covers the relevance of enzyme kinetics for modeling approaches and systems biology
- ❖ Outstanding style and clarity and provides problems sections for each chapter
- ❖ Includes fast reactions cooperatively and a section on bioinformatics

READERSHIP: Masters students in biochemistry, Bachelors students in biochemistry, lecturers in biochemistry, biochemical institutes, enzymologists, biochemists, bioengineers, pharmacologists, pharmaceutical chemists, Masters students in pharmaceuticals

APR 2012 516PP 978-3-527-33074-4 PR €54.90



BSL3 and BSL4 Agents

Epidemiology, Microbiology, and Practical Guidelines

MANDY ELSCHNER, SALLY CUTLER, MANFRED WEIDMANN & PATRICK BUTAYE

Federal Research Institute for Animal Health, Germany; University of East London, UK; University Medical Center, Germany; VAR-CODA-CERVA, Belgium

- ❖ An essential companion for all BSL3/BSL4 facilities; all necessary information of 14 of the most commonly used dangerous groups of pathogens in one book
- ❖ Essential literature for BSL3 or BSL4 labs and medical facilities intervening in case of an incident
- ❖ All chapters with a uniform structure. Essential biosafety requirements combined in one chapter which is clearly marked in the book

READERSHIP: Laboratory heads, epidemiologists, microbiologists, Public Health Agencies, military authorities, libraries at university institutes, company libraries

MAY 2012 388PP 978-3-527-31715-8 CL €79.90



To Catch a Virus

JOHN BOOSS & MARIE L. LANDRY

American Academy of Neurology, USA; Georgetown University, USA

- ❖ The first history of diagnostic virology, a field that sits at the intersection of basic science, clinical medicine, and public health
- ❖ Tells the story of diagnostic virology in a way that will be interesting to a broad audience
- ❖ Leading experts in basic and diagnostic virology, as well as adult and pediatric infectious diseases medicine, provide several unique perspectives on the development of the field of diagnostic virology

READERSHIP: Infectious diseases specialists, public health workers and educators, basic virologists and epidemiologists, and laboratorians; and as a text for courses in introductory virology, public health and epidemiology, and the history of medicine and science

SERIES: ASM PRESS (AMERICAN SOCIETY FOR MICROBIOLOGY)

MAY 2012 300PP 978-1-5558-1507-3 PR TBA



Molecular and Cellular Therapeutics

DAVID WHITEHOUSE & RALPH RAPLEY

London School of Hygiene and Tropical Medicine, UK; University of Hertfordshire, UK

- ❖ Key text which brings together key developments and their application within modern medicine
- ❖ Clarifies and explains the ideas and technologies that underlie new medical research
- ❖ Bridges the gap between traditional medicine and treatments and the origin of the new approaches to therapeutics

READERSHIP: Medical students, biomedical science students, biotechnology students, post-graduate research students, medical research scientists, clinicians; will also be of use to undergraduates in biology, biochemistry, molecular biology, microbiology, immunology and so on, drug reps and healthcare market analysts

APR 2012 328PP 978-0-470-74814-5 CL €71.90

Replacing Animal Models: A Practical Guide to Creating and Using Culture-based Biomimetic Alternatives

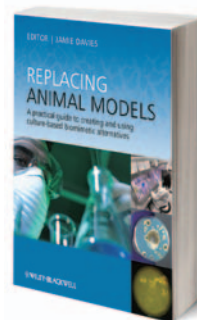
JAMES A. DAVIES

University of Edinburgh, UK

- ✦ Written by a team of leading international experts in the field, this timely guide presents the very latest developments in tissue engineering and stem cell work to provide state of the art guidelines on how best to set up and use *in vitro* alternatives to animal models
- ✦ Covers a range of methods and examples emphasising the design considerations that went into each system
- ✦ Includes case studies that illustrate how culture models can be used to answer a range of important biological questions of direct relevance to human development, physiology, disease and healing
- ✦ Well-presented with an eight page full colour section

READERSHIP: Biomedical researchers and technicians in a range of disciplines across both academia and industry.

APR 2012 240PP 978-0-470-97425-4 CL €77.90



Essential Laboratory Skills for Biosciences

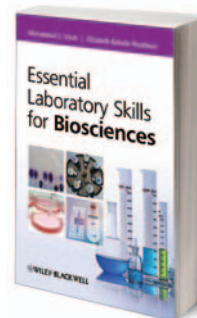
MOHAMMED MEAH & ELIZABETH KEBEDE-WESTHEAD

Both of University of East London, UK

- ✦ Essential and concise pocket size guide written specifically for Bioscience students involved in laboratory practicals
- ✦ Simple to follow, giving clear step-by-step instructions on essential techniques and calculations and is supported by numerous diagrams and illustrations
- ✦ Covers measurements and calculations, preparing solutions, common techniques and associated equipment and recording and presenting data

READERSHIP: Primary Market: All first year bioscience/biomedical students taking a compulsory course in lab. techniques; Secondary Market: Foundation degree students and laboratory technician trainees

MAR 2012 160PP 978-0-470-68647-8 PR €21.90



Statistical Modelling of Molecular Descriptors in QSAR/QSPR

MATTHIAS DEHMER, KURT VARMUZA, DANAIL BONCHEV & FRANK EMMERT-STREIB

UMIT, The Health and Life Sciences University Hall/Tyrol, Germany; Techn. Universität Vienna, Au; Virginia Commonwealth University, USA; Queen's University Belfast, UK

- ✦ Presents theoretical and practical results resulting from the statistical analysis and modeling of molecular descriptors in QSAR/QSPR
- ✦ Multidisciplinary target audience in academia and industry
- ✦ Essential reading for everyone working in chemoinformatics and structure-oriented drug design
- ✦ High profile international author and editor team including a contribution from Robert Todeschini, one of the founders of the field

READERSHIP: Pharmacologists, computer specialists, physiological chemists, pharmaceutical industry, structural chemists, medicinal chemists, pharmaceutical chemists, statistics specialists, biomathematicians, applied mathematicians

SERIES: QUANTITATIVE AND NETWORK BIOLOGY (VCH)

APR 2012 450PP 978-3-527-32434-7 CL €129.00



Recent Advances in Polyphenol Research

Volume 3

VÉRONIQUE CHEYNIER, PASCALE SARNI-MANCHADO & STÉPHANE QUIDEAU

INRA, Sciences for Enology, France; INRA, Sciences for Enology, France; University of Bordeaux, France

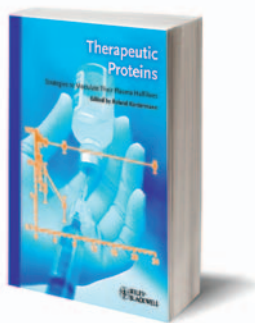
- ✦ Volume 3 of the highly regarded and successful *Recent Advances in Polyphenols* series and sponsored by Groupe Polyphenols
- ✦ Provides cutting edge reviews of exciting aspects, e.g. health and nutrition, roles in ecosystems, and metabolomics
- ✦ Essential information for plant scientists and biochemists
- ✦ Commercially important details for those involved in product development

READERSHIP: Plant scientists, biochemists, chemists, pharmacognosists and pharmacologists, biological scientists, ecologists, food scientists and nutritionists. Libraries in all universities and research establishments where these subjects are studied and taught should all have copies on their shelves

SERIES: RECENT ADVANCES IN POLYPHENOLS

MAY 2012 464PP 978-1-4443-3746-4 CL €175.00





Therapeutic Proteins

Strategies to Modulate Their Plasma Half-lives

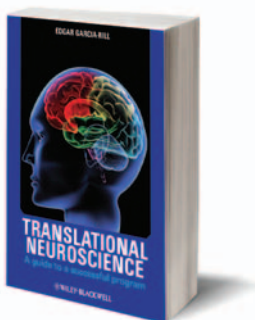
ROLAND KONTERMANN

University of Stuttgart, Germany

- ❖ The combined knowledge on extending the life time of biopharmaceuticals in one volume
- ❖ Indispensable for the development of biopharmaceuticals
- ❖ Edited by an internationally respected authority in the field with outstanding contributors from industry and academia
- ❖ Comprehensive concept covering all approaches and aspects of modifying therapeutic proteins

READERSHIP: Pharmacologists, biotechnologists, pharmaceutical industry, biotechnological industry, medicinal chemists

APR 2012 400PP 978-3-527-32849-9 CL €129.00



Translational Neuroscience

EDGAR GARCIA-RILL

McGill University, Canada

- ❖ Takes the latest innovations made in the laboratory setting to translate findings into effective and sustainable medical interventions and improved preventative measures
- ❖ Provides practical information from scientists with first-hand experience in developing a cutting-edge translational facility
- ❖ Chapters look at topics ranging from mentoring and career planning for clinician scientists to improving the design of core facilities and addressing infrastructure needs

READERSHIP: Deans, department chairs, academic health center administrators, and researchers will find this guide useful for drafting programs in translational research and avoiding costly pitfalls

MAR 2012 168PP 978-0-470-96071-4 CL €83.90



Perspectives on the Self

Conversations on Identity and Consciousness

ANNALS OF THE NEW YORK ACADEMY OF SCIENCES EDITORIAL STAFF

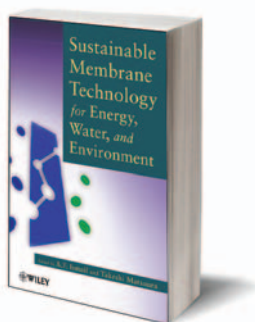
New York Academy of Sciences, USA

- ❖ Stems from a six-part lecture series at The New York Academy of Sciences, in partnership with the Nour Foundation
- ❖ Features contributions from experts from the sciences and humanities with an aim to provide an objective overview of the evolving notion, construct, and experience of the self, without losing sight of the subjective value that makes these matters so integral to each of us
- ❖ Seeks to analyze and foster deeper reflection and insight on the current concept and theories of the self and their moral, ethical, and social implications

READERSHIP: Of interest to a broad range of researchers and scholars in psychology, neuroscience, philosophy, and anthropology

SERIES: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

JAN 2012 252PP 978-1-5733-1826-6 PR €112.00



Sustainable Membrane Technology for Energy, Water, and Environment

MOHAMMED ISMAIL

Ohio State University, USA

- ❖ Addresses applications of membrane science and technology for energy, water, environment, food, and other industrial applications
- ❖ Compares membrane process as an alternative to conventional separation processes
- ❖ Covers the technology behind new membranes, which have better material properties and cheaper production costs, that have been introduced in recent years, especially in the water and energy areas
- ❖ Includes sections on the rapidly growing R & D activities in the ASEAN and the Middle East regions

READERSHIP: Engineers, scientists, professors, graduate students as well as general readers in universities, research institutions and industry who are engaged in R & D of membranes for separation processes; chemical and environmental engineers, civil engineers, R & D policy makers, those involved in gas separation, waste water treatment and water production, fuel cell, food processing

JUN 2012 320PP 978-1-1180-2459-1 CL €109.00

Chemical Process Design and Integration

2nd Edition

ROBIN M. SMITH

UMIST, UK

- ❖ New edition of a best-selling established book from highly-regarded author, with industrial and academic experience
- ❖ New section on sustainable energy, with sections on carbon capture and sequestration, as a result of increasing environmental awareness
- ❖ Companion website includes problems, worked solutions, and Excel spreadsheets to enable students to carry out complex calculations
- ❖ Provides a practical guide for students, researchers and those in industry

READERSHIP: Advanced undergraduates, graduate students and researchers in chemical engineering. Practicing process engineers in industry, and applied chemicals working in process development

JUN 2012 712PP 978-1-1199-9014-7 CL €162.00

**Chemical
Process
Design and
Integration**



TEXT BOOK

Mathematical Modeling in Science and Engineering

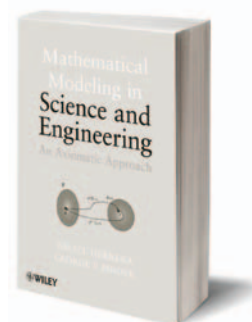
ISMAEL HERRERA & GEORGE F. PINDER

National University of Mexico, Mexico; Princeton University, USA

- ❖ Teaches mathematical and computational modeling (MCM) using the Axiomatic Approach, which permits incorporating in a single model, systems that occur in many different branches of science and engineering
- ❖ Provides a simple and fast manner of getting acquainted with the most important mathematical models of engineering and science
- ❖ Axiomatic Approach allows the user to formulate models of previously unknown systems which is valuable when treating new systems
- ❖ Introduces a systematic method for constructing mathematical models, which can be applied to any macroscopic physical system

READERSHIP: Professors, graduate students, research scientists, professional engineers, etc. primarily in the fields of civil, mechanical, and chemical engineering, but can be used in all fields that utilize models

MAR 2012 224PP 978-1-1180-8757-2 CL €69.90



Guidelines for non-SIS Independent Protection Layers

Center for CHEMICAL PROCESS SAFETY (CCPS)

- ❖ A guide for Layers of Protection Analysis (LOPA) practitioners, explaining the onion skin model and how it relates to the use of LOPA and the need for non-safety instrumented independent protection layers
- ❖ Provides specific guidance on that are not Safety Instrumented Systems (SIS) and separates them into categories of inherent safety; preventative/pro-active; preventative/active; mitigation (passive or aggressive)
- ❖ Addresses issues such as how to ensure the effectiveness and maintain reliability for administrative controls or inherently safer, passive; concepts.
- ❖ Discusses the importance of diversity in choosing protection layers

READERSHIP: Process safety, life safety, loss prevention, and industrial hygiene professionals in government, in academia, in consulting, and in the military; engineers and managers involved in process development; insurers

APR 2012 150PP 978-0-470-34385-2 CL €69.90

**Guidelines
for non-SIS
Independent
Protection
Layers**

Introduction to Mesoscopic and Nanoscale Thermodynamics

MIKHAIL A. ANISIMOV

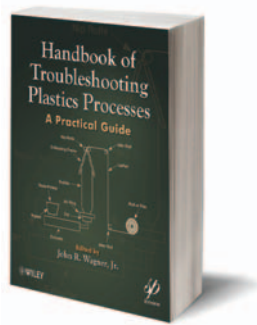
University of Maryland, USA

- ❖ In order to deal with the engineering problems of today (i.e. in gene engineering, micro-reactor chemistry, and nanostructures) that are outside the field of classical thermodynamics, engineers need to learn the fundamentals of mesoscopic thermodynamics
- ❖ Covers the fundamentals and applications of thermodynamics at meso- and nano-scale
- ❖ Emphasizes concepts of universality, physical meaning, and various engineering applications
- ❖ Supplements each chapter with practical exercises and also contains the answers to selected problems from the text

READERSHIP: Graduate and senior undergraduate students in engineering and science courses in departments like: chemical engineering, mechanical engineering, physics, chemistry, materials science; university libraries, researchers

JUN 2012 432PP 978-0-471-72506-0 CL €87.90

**Introduction
to Mesoscopic
and Nanoscale
Thermodynamics**



Handbook of Plastics Processing Troubleshooting

JOHN WAGNER

- ❖ This book may save companies money; will assist the manufacturer in troubleshooting the machine quicker and less expensively
- ❖ Companies with multiple machines will have just one reference book to consult instead of several documents
- ❖ A practical guide written by experts for technical service people and process engineers

READERSHIP: This troubleshooting handbook will provide a framework for process engineers, technical service and production personnel in all companies worldwide that manufacture plastics products and parts

SERIES: WILEY-SCRIVENER

MAY 2012 978-0-470-63922-1 CL €212.00



Plant-Wide Control

Recent Developments and Applications

GADE PANDU RANGAIAH & VINAY KARIWALA

National University of Singapore, Singapore; Nanyang Technological University, Singapore

- ❖ Plant-wide control is an important practical problem – of interest to both industry and academics
- ❖ Summarizes recent developments in plant-wide control, and contains mathematical and computational tools, and recent methodologies
- ❖ Presents contributions from leading academic and industrial researchers
- ❖ Process control is an increasingly important tool in this era of tougher market competition, stricter regulations and thinner profit margins

READERSHIP: Researchers and advanced students in process control, practitioners in industry (chemical and related process industries)

MAR 2012 512PP 978-0-470-98014-9 CL €142.00



Guidelines for Engineering Design for Process Safety

2nd Edition

Center for CHEMICAL PROCESS SAFETY (CCPS)

- ❖ New topics covered in this book include: Inherently Safer Design, Safety Instrumented Systems, and Layer of Protection Analysis
- ❖ Serves as a single comprehensive reference for Engineering Design topics as they relate to Process Safety
- ❖ Provides methods for selecting designs that can prevent or mitigate the release of flammable or toxic materials, which could lead to a fire, explosion, or environmental damage
- ❖ Includes an extensive bibliography to related publications and topic-specific information, as well as key information on failure modes and potential design solutions

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

MAR 2012 438PP 978-0-470-76772-6 CL €132.00



Great Inventions that Changed the World

JAMES WEI

Massachusetts Institute of Technology, USA

- ❖ Acquaints the general public with the nature of engineering and technological innovation
- ❖ Provides an avenue into engineering education that reveals the nature of invention and innovation early on
- ❖ Defines inventors and describes how they made their discoveries and how these discoveries developed into useful goods and services
- ❖ This book is written by one the top Engineers of the last hundred years and is based on a Princeton University Course designed for a general audience, from poets to engineers

READERSHIP: Educated laypersons, history of science students (undergraduate), and possibly university libraries; readers of this book may also read journals or popular magazines that focus on science or the history of science and technology, including: Discover Magazine, Scientific American, Smithsonian, or other science related materials

JUN 2012 304PP 978-0-470-76817-4 CL €43.90

Earthly Scents - Heavenly Pleasures

A Cultural History of Scents

GÜNTHER OHLOFF

- ❖ Guides readers through the scent traditions of some of the great cultures of the world journeying from the ancient traditions of Mesopotamia to the perfumes of the present, from Europe to East Asia
- ❖ Collects together the ingredients and recipes used for the preparation of bewitching perfumes, ritual incenses, or soothing oils and ointments
- ❖ Presents a fascinating chapter in cultural history
- ❖ English translation of the successful German edition *Irdische Düfte, Himmlische Lust*

READERSHIP: Lecturers in chemistry, chemists, biologists, biochemists, perfumers, perfume industry

MAY 2012 300PP 978-3-906-39034-5 CL €49.90

**Earthly
Scents -
Heavenly
Pleasures**

ADME-Enabling Technologies for Drug Design and Development

DONGLU ZHANG

Bristol-Myers Squibb Pharmaceutical Research Institute

- ❖ Integrates all areas of a topic and provides the state-of-art and cutting-edge technologies in the ADMET science
- ❖ New technologies and advancements captured in the book provide a means of accessing updated info on the topics
- ❖ Each chapter provides a description, application scope and limitations, optimal conditions for intended results, protocols, case studies, and future development of a particular technology
- ❖ Provides a broad and comprehensive treatment of ADMET technologies including both electronic/mechanical technologies as well as biologically-based tools

READERSHIP: Scientists in the pharmaceutical industry, medicine, pre-clinical drug discovery and development researchers, chemists and clinical researchers; academic drug metabolism experts; new industry recruits, toxicology, bioanalytical researchers

MAY 2012 650PP 978-0-470-54278-1 CL €109.00

**ADME-
Enabling
Technologies
for Drug
Design and
Development**

Applied Handbook of Mass Spectrometry

MICHAEL S. LEE

Milestone Development Services, USA

- ❖ Provides an extensive library of methods used in connection with mass spectrometry and explains why to use a particular method and why not to use others
- ❖ Covers the use of mass spectrometry in field as diverse as: drug discovery, environmental science, forensic science, clinical analysis, polymers, oil composition, doping, cellular research, semiconductor, ceramics etc
- ❖ Covers the basics of mass spectrometry such as inlet systems, ion sources, mass analyzers, detectors, fragmentation, interpreting spectra, and the role of computers
- ❖ Provides the reader with the protocol for the technique describe including sampling methods

READERSHIP: Lab managers, lab technicians, and pharmaceutical researches from Academia and Industry; Chromatography and Mass Spectrometry specialists operating in the industrial, environmental and clinical fields; Graduate students to Ph.D. level and post-doctorate students, permanent-position academia researchers

SERIES: WILEY SERIES ON PHARMACEUTICAL SCIENCE AND BIOTECHNOLOGY: PRACTICES, APPLICATIONS AND METHODS

MAY 2012 1336PP 978-0-470-53673-5 CL €172.00

**Applied
Handbook
of Mass
Spectrometry**

Isotopic Analysis

Fundamentals and Applications Using ICP-MS

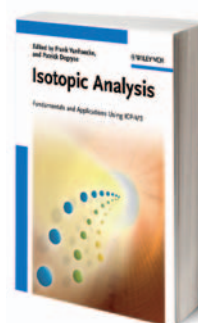
FRANK VANHAECKE & PATRICK DEGRYSE

Ghent University, Belgium; University of Leuven, Heverlee, The Netherlands

- ❖ Powerful: The method is extremely sensitive and can detect very small quantities
- ❖ Popular: The number of users has boomed during the past decades and the method is still growing
- ❖ The editor is a very well-known and respected scientist in this field
- ❖ An excellent guide covering the fundamentals and a range of applications, as well as showing the reader how to efficiently use the method

READERSHIP: Analytical chemists, inorganic chemists, geochemists, graduate students, Ph.D. students in chemistry, archeologists, medicinal chemists, biologists, ecotoxicologists, libraries

APR 2012 450PP 978-3-527-32896-3 CL €89.00



Forensic Analytical Techniques

Forensic Analytical Techniques

DR BARBARA B. STUART

University of Technology, Sydney, Australia

- ❖ Describes all the important analytical techniques used in forensic science in a clear manner
- ❖ Covers the major areas of forensic analysis which employ analytical techniques
- ❖ Provides examples of specific applications of analytical techniques to forensic problems
- ❖ Follows an open-learning approach enabling readers to assess their understanding with the use of discussion questions and self-assessment questions

READERSHIP: Forensic scientists in training, mainly at undergraduate level, although it will also provide a useful reference for forensic practitioners and technicians in non-university laboratories wanting to learn about new techniques

SERIES: ANALYTICAL TECHNIQUES IN THE SCIENCES (ANTS) *

APR 2012 360PP 978-0-470-68727-7 CL €142.00

Handbook of Green Analytical Chemistry

Handbook of Green Analytical Chemistry

MIGUEL DE LA GUARDIA & SALVADOR GARRIGUES

Both of Universidad de Valencia, Spain

- ❖ Presents a detailed and advanced review of this rapidly emerging field, discussing recent developments by leading researchers
- ❖ Focuses heavily on specific green analytical techniques and fields of application
- ❖ A practical resource for the experienced analytical chemist interested in implementing green approaches in their work
- ❖ Edited by internationally recognised experts in the field, with chapter contributions from international specialists in each field

READERSHIP: Specialists in the field of analytical chemistry, in academia and industry, who are interested in implementing sustainable practices in their daily work; advanced undergraduate/postgraduate students on courses such as analytical chemistry, sample preparation, chromatographic methods, analytical spectroscopy

APR 2012 544PP 978-0-470-97201-4 CL €129.00

Protein Formulation and Stability for Successful Protein Therapeutics

Protein Formulation and Stability for Successful Protein Therapeutics

TIANSHENG LI

- ❖ Focuses on the connection between protein stability and formulation which is important because many therapeutic proteins are not stable enough to be produced in sufficient quantities to be useful
- ❖ Offers the most up-to-date advances in the field of protein formulation and describes methods that can be used to minimize physical and chemical degradations
- ❖ Describes how to use screening studies to identify at the preclinical stage stability problems
- ❖ Illustrates many unique aspects of protein stability and molecular mechanism of protein degradations, and describes the essence of protein formulation during pre-clinical development

READERSHIP: Biochemists, bioengineers, protein formulators and scientists working at the pre-clinical stage in biotech industry

MAY 2012 384PP 978-0-470-20969-1 CL €85.90

Root Cause Analysis

Root Cause Analysis

Getting to the Bottom of a Problem

JOHN E. LINCOLN

J. E. Lincoln and Associates

- ❖ Presents a practical narrative based on the author's actual experiences, successes and failures in real world, less than ideal environments
- ❖ Teaches how to approach a problem, how to select the RCA tools, when and how to use them, verification and validation activities for products and processes, and how to document progress to final conclusion
- ❖ Includes case studies demonstrate successful implementation of root cause analysis, and highlight pitfalls, false steps, and causes of failures
- ❖ Provides flowcharts, tools, documents, and a list of typical Standard Operational Procedures for effective use of RCA

READERSHIP: Engineering, quality assurance, and regulatory affairs personnel in globally-regulated industries (pharmaceutical, medical device, dietary supplements), quality management systems (QMS / QA / QC) personnel, R&D and engineering, students in university or certification programs (ASQ, RAPS)

JUN 2012 272PP 978-0-470-44651-5 CL €69.90

Interpreting Electron Ionization Mass Spectra

A Problem Based Approach

ATHULA B. ATTYGALLE

Stevens Institute of Technology, USA

- ❖ Theoretic mass spectrometry books do not give the reader real world problems, resulting in the reader not having enough practice. This book fills this gap and allows the reader to apply the material to unknowns
- ❖ Question and answer structure lets the reader learn the material at their own pace and includes a large set of questions of increasing complexity so that the reader gains a firm understanding of the topic
- ❖ Give comprehensive coverage of the topic based on real spectra using MS of different isomeric compounds with isobaric mass to illustrate the dependence of MS fragments on the structure
- ❖ Allows the reader to teach themselves the fundamentals of fragmentation of molecules under electron ionization and how to rapidly identifying unknown substances when they are encountered

READERSHIP: Students in the field of chemistry, biochemistry, biology, environmental studies, forensic science, geology, organic mass spectrometry; specialists in medicine, of various types, like pathology, drug enforcement, security service; chemists working in the fields of volatile chemicals, environmental pollutants, flavors and fragrances, natural products, explosives, and pharmaceutical development

JUN 2012 512PP 978-0-470-63027-3 CL €112.00

Practical Raman Spectroscopy

An Introduction

PETER VANDENABEELE & DAVID J. ANDO

Ghent University, UK; University of Greenwich, UK

- ❖ A user-friendly text that tackles the theoretical background, and provides everyday tips for common practice
- ❖ Covers Raman instrumentation and practical aspects, which are sometimes overlooked
- ❖ Appropriate for students, and will include summaries, text boxes, illustrating the ideas with examples from research literature or providing background information or links with other courses
- ❖ Written in the AnTS style – an open learning approach this book will be ideal for use as a self-study guide or as the basis of a taught course with discussion and self-assessment questions throughout the text

READERSHIP: Appropriate for users of Raman Spectroscopy in industry, research institutes and academia; students studying Raman spectroscopy as part of a chemistry BSc or analytical chemistry MSc course and post-graduate students carrying out research in Raman spectroscopy

SERIES: ANALYTICAL TECHNIQUES IN THE SCIENCES (ANTS) *

JUN 2012 144PP 978-0-470-68319-4 CL €89.90

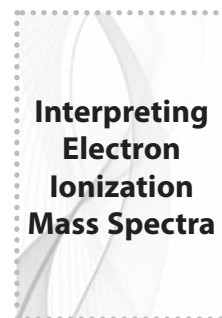
NIST/EPA/NIH Mass Spectral Library 2011

NIST

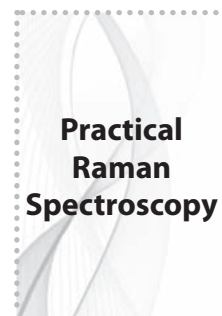
- ❖ NIST/EPA/NIH 2011 library is 10 percent larger than the 2008 version
- ❖ The 2011 edition contains: 243,893 carefully evaluated spectra and 212,961 compounds
- ❖ The recent edition of the NIST MS Search Program has evolved into a powerful tool that not only matches spectra of unknown compounds against spectra in the EI and MS/MS databases, but also identifies unknowns encountered in toxicology, forensics, quality control, flavour and fragrances, environmental and many other fields through their mass spectra.

READERSHIP: Mass spectrometrists, forensics and toxicology laboratories, organic chemists, biochemists, pharmaceutical chemists and biologists in pharmaceutical, chemical and biotechnological companies and faculties; food industry; medical care; doctors in hospitals

OCT 2011 978-1-1180-1667-1 Software* €3,580.00



**Interpreting
Electron
Ionization
Mass Spectra**



**Practical
Raman
Spectroscopy**



NIST/EPA/NIH Mass Spectral Library 2011 (Update)

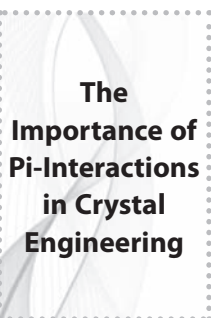
NIST

- ❖ NIST/EPA/NIH 2011 library is 10 percent larger than the 2008 version
- ❖ The 2011 edition contains: 243,893 carefully evaluated spectra and 212,961 compounds
- ❖ The recent edition of the NIST MS Search Program has evolved into a powerful tool that not only matches spectra of unknown compounds against spectra in the EI and MS/MS databases, but also identifies unknowns encountered in toxicology, forensics, quality control, flavour and fragrances, environmental and many other fields through their mass spectra.

READERSHIP: Available only to purchasers of the prior edition

NOV 2011 978-1-1180-1668-8 Software* €2,430.00





The Importance of Pi-Interactions in Crystal Engineering

Frontiers in Crystal Engineering
3rd Edition

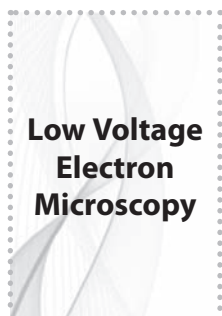
EDWARD R. T. TIEKINK & PROFESSOR JULIO ZUKERMAN-SCHPECTOR

Universidade Federal de São Carlos

- ❖ Bridges the interests of physicists, biochemists, theoreticians, and materials scientists
- ❖ Specialist reviews written by internationally recognized researchers, drawn from both academia and industry
- ❖ Crystal Engineering is one of the key areas for the development of new functional materials and nanoscience/technology. Understanding the forces at work in crystals is essential to the development of the field
- ❖ Complements *Frontiers in Crystal Engineering I* (Wiley, Dec 2005) and *Frontiers in Crystal Engineering II – Organic Crystal Engineering* (Wiley, Mar 2010). All three volumes will be available in a box set as well as individually

READERSHIP: Academic (postgraduates, postdocs and researchers) and industrial researchers in molecular solid-state chemistry, solid-state synthesis, crystal engineering, crystallography, medicinal and pharmaceutical sciences, physical chemistry, materials and nanotechnology

APR 2012 424PP 978-0-470-68827-4 CL €142.00



Low Voltage Electron Microscopy

Principles and Applications

DAVID BELL & NATASHA ERDMAN

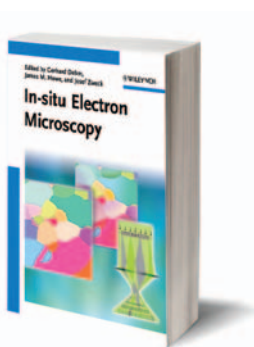
Harvard University, USA; JEOL USA Inc.

- ❖ Discusses the rapidly developing and cutting edge field of low-voltage microscopy that has only recently become available due to the rapid developments in the electron optics design and image processing
- ❖ Serves as a guide for current and new microscopists and materials scientists who are active in the field of nanotechnology
- ❖ Presents applications in nanotechnology and research of the surface related phenomena, allowing researchers to observe materials as has never been done before.

READERSHIP: Current and aspiring electron microscopists; nanotechnology, materials science and biology researchers who routinely use electron microscopes. Venture capitalists, nano-technology investors, graduate and undergraduate students

SERIES: RMS - ROYAL MICROSCOPICAL SOCIETY

JUN 2012 328PP 978-1-1199-7111-5 CL €112.00



In-situ Electron Microscopy

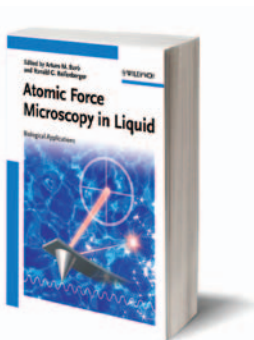
GERHARD DEHM, JAMES M. HOWE & JOSEF ZWECK

Montanuniversität Leoben, Leoben, Austria; University of Virginia, Charlottesville, USA; Universität Regensburg, Regensburg, Germany

- ❖ Adopting a didactical approach from fundamentals to actual experiments and applications, this handbook covers modern focused ion beam workstations, scanning electron microscopes and transmission electron microscopes, while also showing how to combine them for real-time observation
- ❖ Begins with introductory material and the basics, before going on to cover the techniques needed to determine growth processes, melting, reactions, and doping as well as mechanical, magnetic, optical and electronic properties
- ❖ A final section is devoted to soft matter - many labs already have the equipment but not the know-how to perform in-situ electron microscopy

READERSHIP: Materials scientists, chemists, physicists, institutes, institutions, libraries, graduate students, physical industry, supplier of measurement equipment

APR 2012 475PP 978-3-527-31973-2 CL €159.00



Atomic Force Microscopy in Liquid

Biological Applications

ARTURO M. BARÓ & RONALD G. REIFENBERGER

CSIC, Madrid, Spain; Purdue University, West Lafayette, USA

- ❖ New and innovative: This is the first book focusing on AFM in liquid phase
- ❖ Trend: About 40% of AFM research papers deal with measurement in solvents
- ❖ Commercial advantage: It is not expensive to use AFM
- ❖ Wide range of applications in academia and industry: e.g. this technique can be used for biological materials, biological subjects, for materials in the nanoscale range

READERSHIP: Chemists, physicists, materials scientists, biologists, analytical chemists, medicinal chemists, libraries

APR 2012 402PP 978-3-527-32758-4 CL €99.00

Biological Sludge Minimization and Biomaterials

Bioenergy Recovery Technologies

ETIENNE PAUL & YU LIU

- ❖ Provides a comprehensive and up-to-date picture of sludge minimization and reuse with a focus on process fundamentals, feasibility and cost evaluation
- ❖ Provides a complete, comprehensive, and global view of the problem of sludge minimization
- ❖ Describes methods to reduce sludge production during wastewater purification instead of the post-treatment of the sludge generated
- ❖ This book is a contributed book written by experts in industry and academia

READERSHIP: Practicing engineers in industry and governmental agencies who deal with wastewater including: environmental engineers, environmental scientists, chemical engineers, civil engineers graduate and postgraduate students

JUN 2012 528PP 978-0-470-76882-2 CL €81.90

**Biological
Sludge
Minimization
and
Biomaterials**

A Guide to the Economic Removal of Metals from Aqueous Solutions

YOGESH C. SHARMA

Institute of Technology, Banaras Hindu University

- ❖ Processes detailed in the book will reduce extraction costs by up to 20%
- ❖ The water quality/purity after metal extraction is higher than other processes
- ❖ Presents the results and data from research and adsorption experiments

READERSHIP: Public health, sanitary and water engineers will benefit from the information reported in the book as it will serve as baseline data for designing treatment plants for the treatment of industrial effluents rich in the metallic species in general and that of nickel and chromium in particular; chemical and environmental engineers as well as researchers and students will find this book very useful

DEC 2011 116PP 978-1-1181-3715-4 CL €69.90



Introduction to Environmental Engineering

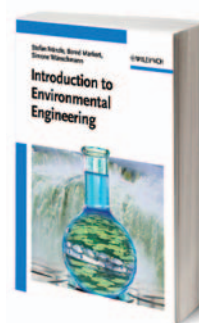
STEFAN FRÄNZLE, BERND MARKERTL & SIMONE WÜNSCHMANN

Int. Graduate School Zittau, Germany; Haren, Germany; Haren, Germany

- ❖ Fills a gap in the current textbook market by introducing the modern, integrated environmental management approach to students
- ❖ Should be used as an advanced text for graduate and postgraduate education. Course codes: E6X400, E71900
- ❖ Helps to practice professional skills by discussing real-life case studies for each technology
- ❖ Doubles as a reference by providing many tabulated data, a comprehensive list of further reading, and a glossary of terms

READERSHIP: Master's students in engineering sciences, chemical engineers, master's students in chemistry, chemists in industry, environmental chemists, environmental consultants

FEB 2012 432PP 978-3-527-32981-6 PR €59.00



Pretreatment for Enhanced Anaerobic Technology

ACKMEZ MUDHOO

Department of Chemical and Environmental Engineering, University of Mauritius

- ❖ This book highlights the recent advances in the pretreatment and value addition of lignocellulosic wastes (LCW) with its main focus on domestic and agro-industrial residues
- ❖ Also highlights the recent advances in mechanical, physical and biological treatment systems and brings them into perspective
- ❖ Summarizes the main value-added products from lignocellulosic wastes in a manner that pinpoints the most recent trends and the future directions
- ❖ Covers future trends that are being directed to nanobiotechnology and genetic engineering for improved processes and products

READERSHIP: Environmental chemists; environmental engineers; engineers, scientists, professors, and students in chemical engineering

JUN 2012 350PP 978-1-1180-6285-2 CL €152.00

**Pretreatment
for Enhanced
Anaerobic
Technology**

Low Impact Development and Sustainable Stormwater Management

Low Impact Development and Sustainable Stormwater Management

THOMAS H. CAHILL

Cahill Associates

- ❖ Introduces engineers and designers with ideas and methods to manage stormwater, including groundwater and surface water, in a more sustainable fashion
- ❖ Provides detailed instructions on the stormwater design process, engineering details and calculations, and construction concerns, illustrating the concepts with built project examples, photographs, and engineering details
- ❖ Integrates various professional perspectives; landscape architects, planners, and scientists; that aids in cross-discipline communication for achieving sustainable stormwater management
- ❖ Proposes and presents engineering design ideas that differ from traditional approaches in the prevailing literature; like maximizing vegetative cover and use of infiltration systems

READERSHIP: Professional stormwater designers and regulators; Environmental engineers, civil engineers, design engineers

JUN 2012 320PP 978-0-470-09675-8 CL €69.90

Industrial Organic Chemicals

Industrial Organic Chemicals

3rd Edition

HAROLD A. WITTCOFF, BRYAN G. REUBEN & JEFFERY S. PLOTKIN

The Chem Systems Group, New York; South Bank Polytechnic, London; Process Evaluation and Research Planning Program, Nexant ChemSystems Inc., USA

- ❖ Provides a thorough overview of the seven building block chemicals and their derivatives, including processing, uses, and economic importance
- ❖ Gives a broad description of the polymer industry and industrial catalysts, which are essential topics if one wants to understand the chemical industry
- ❖ Includes new 'Green' chapters that cover renewables, chemicals and fuels
- ❖ Covers the shift of capacity to third world countries, feedstock problems, political problems, and what may or may not be a world economic recession

READERSHIP: Chemists, chemical engineers, plastic engineers, petroleum engineers, managers and executives in the chemical industry

JUN 2012 744PP 978-0-470-53743-5 CL €152.00

Safety Technology

Safety Technology

Applying Computational Fluid Dynamics

JÜRGEN SCHMIDT

Karlsruhe Institute of Technology, Germany

- ❖ In the wake of recent events, chemical safety has received increased attention from the general public and government officials as a possible approach to managing the risk from accidents and disasters in chemical plants
- ❖ Latest Technology and Methodology: Incorporating Computational Fluid Dynamics into the daily safe running of chemical plants
- ❖ Advancing Safety: Utilising CFD is the most advanced form of Safety Technology
- ❖ Discusses strategies: Developing the procedures and technologies and facilitating safety and security collaborations

READERSHIP: Chemical industry, top management, chemical engineers, process engineers, safety officers, public authorities, engineering scientists in industry

FEB 2012 400PP 978-3-527-33027-0 CL €119.00



Topics in Colloid and Interface Science

THARWAT F. TADROS & CONSULTANT

formerly Zeneca Agrochemicals (ICI Group), Bracknell, UK

- ❖ This book highlights the recent fundamental developments as well as the future challenges
- ❖ Several topics are covered such as emulsions, nano-emulsions, nano-dispersions and the developments in novel techniques for their investigations
- ❖ Takes account of the fundamental approach in such areas such as controlled release, drug delivery and various applications of nanotechnology
- ❖ Provides researchers and technologists with progress basics in challenging areas for the future

READERSHIP: Surface chemists, physical chemists, materials scientists, chemical engineers, polymer chemists

SERIES: TOPICS IN COLLOID AND INTERFACE SCIENCE (VCH)

MAY 2012 350PP 978-3-527-31991-6 CL €109.00

Corrosion Resistance of Copper and Copper Alloys

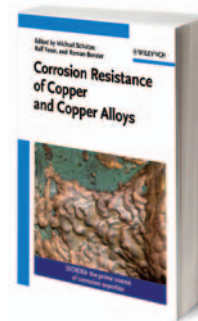
MICHAEL SCHÜTZE, RALF FESER & ROMAN BENDER

DECHEMA, Frankfurt, Germany; FH Südwestfalen, Fachb. Inform.u.Naturwissensch., Ge.; DECHEMA, Frankfurt, Germany

- ❖ Corrosion resistance guarantees the use of the compounds in areas, where safety is a must, e.g. construction of buildings and plants, water supply and electricity. Therefore, this book and its content is a must-have for all working in these industries
- ❖ Fewer damages because of corrosion protections save a lot of money and effort
- ❖ Big business: The annual worldwide demand of copper is about 20 million tons
- ❖ Multi-talented compounds widely used in building and construction, electronical and electronic products, transportation industry, industrial machinery and consumer and general goods sector

READERSHIP: Corrosion specialists, metal processing industry, electrotechnical industry, materials scientists, process engineers, engineers in power technology, mechanical engineers, civil engineers, electrical engineers, chemical industry, libraries

NOV 2011 752PP 978-3-527-33224-3 CL €229.00



Industrial Crystallization Process Monitoring and Control

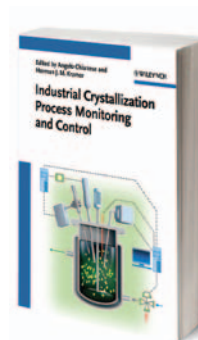
ANGELO CHIANESE & HERMAN J. KRAMER

University of Rome La Sapienza, Italy; Delft University of Technology, The Netherlands

- ❖ Crucial to industry as it outlines trouble free production, provides laboratory controls, analyses case studies and discusses new challenges
- ❖ Captures the essence of current trends, markets, design tools and technologies in a key field
- ❖ The contents are tailor-made for readers facing the threshold challenges between research and commercial, industrial applications

READERSHIP: Chemical industry, process engineers, chemical engineers, chemists in industry, Ph.D. students in chemistry, Ph.D. students in engineering sciences, pharmaceutical industry, biotechnological industry

MAR 2012 240PP 978-3-527-33173-4 CL €119.00



Smart, Clean Surfaces

Applications from the Laboratory to Industrial Scale

SWAPAN KUMAR GHOSH

Procoat Chemicals India Pvt. Ltd., Pune, India

- ❖ Self cleaning is becoming increasingly important both in academia and industry as self-cleaning coatings are longer lasting and maintain appearance
- ❖ Written by an industry-based author with extensive R&D experience, this practical book provides a comprehensive and detailed analysis of available technologies, design strategies and applications
- ❖ Special attention is given to summarizing different characterization techniques for the evaluation of easy/self-cleaning properties, while also describing essential health and environmental topics, such as antibacterial, water and air purification applications

READERSHIP: Paints and coatings industry, dyes and pigments industry, materials scientists, polymer chemists, chemical industry, chemical engineers, automobile industry, dye chemists, plastics industry

JUN 2012 300PP 978-3-527-32697-6 CL €119.00



Oil Spill Remediation

Colloid Chemistry-Based Principles and Solutions

PONISSERIL SOMASUNDARAN

Columbia University, USA

- ❖ First book to address oil spill remediation from the perspective of physicochemical and colloidal science
- ❖ Discusses current and emerging detergents used in clean-ups
- ❖ Includes chapters from leading scientists, researchers, engineers, and policy makers
- ❖ Presents new insights into the possible impact of oil spills on ecosystems as well as preventive measures

READERSHIP: Chemical engineers, physical chemists, petroleum engineers, eco-toxicologists, environmental engineers, environmental researchers, geologists, geochemists, mineral processors, Environmental Protection Agency

MAY 2012 300PP 978-1-1182-0670-6 CL €109.00



Flow Assurance

Flow Assurance

RAFIQ ISLAM

Civil and Resource Engineering Department, Dalhousie University, Canada

- ❖ 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

JUN 2012 TBA 978-0-470-62608-5 CL €169.00

Industrial Flare Gas Practices

Industrial Flare Gas Practices

NICHOLAS P. CHEREMISINOFF

- ❖ Important topic: previously thought of as a safe and efficient practice but studies refute this proving it to be highly polluting and dangerous
- ❖ Highlights different flare designs, misrepresentations made by industry and the ambiguity in the regulations
- ❖ Includes case studies to bring the topic into context

READERSHIP: Environmental engineers; process engineers; safety engineers; scientists and researchers in chemical engineering

APR 2012 300PP 978-1-118-23787-8 CL TBA

Bioremediation and Sustainability: Research and Applications

Bioremediation and Sustainability: Research and Applications

ROMEELA MOHEE & ACKMEZ MUDHOO

- ❖ Covers the most cost effective techniques in bioremediation technologies and the most cutting-edge research on bioremediation and its applications
- ❖ Discusses the sustainability paradigm and the role of "green" bioremediation technologies in environmental science
- ❖ Presents the most important emerging areas dealing with bioremediation, such as anaerobic digestion biotechnology, air-sparging, vermistabilization, bioleaching, biobleaching, and many others
- ❖ Useful as a textbook, as well as a volume for the experienced engineer or scientist working in the field

READERSHIP: Engineers, scientists, professors, and students in chemical engineering, environmental engineering, municipal and industrial water processes, wastewater, biotechnology, biological engineering, agricultural engineering

MAY 2012 400PP 978-1-1180-6284-5 CL TBA

Practical Methods for Biocatalysis and Biotransformations V2

Practical Methods for Biocatalysis and Biotransformations V2

DR JOHN WHITTALL & DR PETER SUTTON

University of Manchester, UK; GlaxoSmithKline R&D Ltd.

- ❖ Second volume of practical advice for synthetic chemists wanting to use biocatalysts. Can be used on its own, or in combination with the first volume
- ❖ A wide range of biocatalyst systems are considered, concentrating on new applications and new enzyme families reported since the first volume
- ❖ A "how-to" book about biocatalysts - contains detailed protocols (with sources of starting materials, reagents, hints, tips and safety advice) to ensure that the procedures are reproducible
- ❖ Focuses on commercially available enzymes and strains of microorganisms that are readily obtained from culture collections

READERSHIP: Researchers and graduate students using biocatalyst-based syntheses in academia and in industry, particularly bioprocess and pharma sectors; scientists working in industrial process and development laboratories; research personnel in industrial biotechnology laboratories; synthetic organic chemists looking for an introduction to industrial problems and the solutions used

MAY 2012 432PP 978-1-1199-9139-7 CL €122.00

Phosphorus(III)Ligands in Homogeneous Catalysis

Design and Synthesis

PAUL KAMER & PIET VAN LEEUWEN

University of St. Andrews, UK; Universiteit van Amsterdam, The Netherlands

- ❖ Covers design and synthesis strategies for both traditional phosphorus-based ligands and new phosphorus ligand systems with promising catalytic properties
- ❖ Includes hard-to-find, detailed and reliable synthetic procedures for new phosphorus ligands
- ❖ Written by an international team of experts in the topic

READERSHIP: Academic and industrial researchers in catalysis, organometallic chemistry, organic synthesis and transition metal chemistry

MAY 2012 384PP 978-0-470-66627-2 CL €129.00

**Phosphorus(III)
Ligands in
Homogeneous
Catalysis**

Photocatalysis

Catalysts, Kinetics and Reactors

VALENTIN NIKOLAEVICH PARMON, ALEXANDER V. VORONTSOV, DENIS KOZLOV &

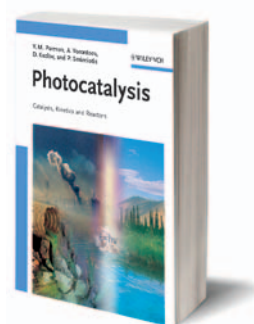
PANAGIOTIS SMIRNIOTIS

Boriskov Institute of Catalysis, Novosibirsk, Russian Federation; Boriskov Institute of Catalysis, Novosibirsk, Russian Federation; Boriskov Institute of Catalysis, Novosibirsk, Russian Federation; University of Cincinnati, Cincinnati, USA

- ❖ Includes all major aspects of photocatalysis, latest findings and insights on catalysts design, kinetic studies, and reactor engineering
- ❖ Semiempirical guidelines for catalysts, kinetics and reactors for the practical development of photocatalytic processes in both fundamental and applied fields
- ❖ Each chapter consists of relevant examples and exercises allowing university courses to be based on the presented material

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

MAY 2021 400PP 978-3-527-31784-4 CL €129.00



Risk Reduction Methods for Occupational Safety and Health

ROGER C. JENSEN

Montana Tech of The University of Montana, USA

- ❖ Covers system safety topics with only a minimum of mathematics
- ❖ Emphasis on methods provided are suitable for all countries and does not rely on the American regulatory guideline as a model
- ❖ Includes a Solutions Manual for instructors who adopt the book as a required text and contains suggestions for using the Learning Exercises for both homework and classroom discussion
- ❖ Emphasizes pro-active methods for: identifying hazards, assessing risk, analyzing hazards, using tools from system safety, conducting post-incident investigations, considering human errors, applying risk reduction strategies, and managing process safety

READERSHIP: Safety professionals, system safety engineers, safety engineers, product safety engineers, casualty engineers, compliance engineers, loss control engineers, line managers, engineers, and analysts who deal with the science of performance

JUN 2012 320PP 978-0-470-88141-5 CL €61.90

**Risk
Reduction
Methods for
Occupational
Safety and
Health**

Green Techniques for Organic Synthesis and Medicinal Chemistry

WEI ZHANG & BERKELEY CUE

University of Massachusetts Boston, USA; BWC Pharma Consulting

- ❖ The only comprehensive book focused on green chemistry applications in organic synthesis, medicinal chemistry and drug discovery
- ❖ The green chemistry aspects and limitations (i.e. cost, equipment, expertise) of each technique are assessed thoroughly
- ❖ Both editors are highly regarded in the field, with backgrounds in academia and industry; Berkeley Cue is one of the fathers of Green Chemistry in Pharma
- ❖ Green chemistry is rapidly becoming a high priority in pharmaceutical R&D, with important environmental and economic implications

READERSHIP: Advanced undergraduate/graduate students and researchers in synthetic organic chemistry, medicinal chemistry, biochemistry, and pharmacy; R&D professionals in fine chemicals, agricultural chemicals, and pharmaceutical industry; Government/organization officers dealing with chemical, pharmaceutical and environmental related issues

MAY 2012 616PP 978-0-470-71151-4 CL €155.00

**Green
Techniques
for Organic
Synthesis and
Medicinal
Chemistry**

Antibacterial Agents

Antibacterial Agents

Chemistry, Mode of Action, Mechanisms of Resistance and Clinical Applications

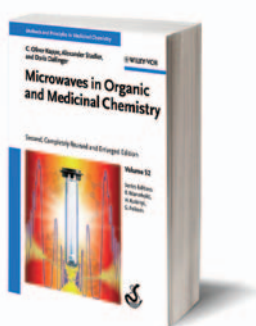
ROSALEEN ANDERSON, PAUL GROUNDWATER, ADAM TODD & ALAN WORSLEY

University of Sunderland, UK; University of Sydney, Australia; University of Sunderland, UK; University of Sunderland, UK

- ❖ Summarises in one volume the current knowledge on antibacterial drugs, an important class of chemotherapeutic agents
- ❖ Presents the topic using an integrated lab-to-clinic approach that reflects the latest practice in pharmacy and pharmaceutical science curriculum development
- ❖ Covers which drug discovery, source or synthesis, mode of action, mechanisms of resistance, clinical aspects, prodrugs and future improvements
- ❖ All of the authors have taught or currently teach either medicinal chemistry or pharmacy practice, covering the topics outlined in this book

READERSHIP: Core text for 3rd/4th year pharmacy, pharmacology, and medicinal chemistry students; Masters students in drug discovery and design, and pharmaceutical sciences, bench reference for pharmacists and pharmaceutical researchers in academia and industry

MAY 2012 288PP 978-0-470-97244-1 CL €129.00



Microwaves in Organic and Medicinal Chemistry

C. OLIVER KAPPE, ALEXANDER STADLER, DORIS DALLINGER, RAIMUND MANNHOLD, HUGO KUBINYI & GERD FOLKERS

University of Graz, Austria; University of Graz, Austria; University of Graz, Austria; University of Duesseldorf, Germany; University of Heidelberg, Germany; Swiss Institute of Technology (ETH), Zürich, Switzerland

- ❖ Best-selling topic and best-selling author, Kappe's previous book in the famous "Methods and Principles in Medicinal Chemistry" series was one of its all-time bestsellers and was showered with praise by the reviews
- ❖ This new edition contains almost 50% new content bringing the contents up to speed, almost doubling the amount of chemical information contained in Parts 2 and 3 (250 pages of new content)
- ❖ Tailor-made for the medicinal chemist as the authors have worked through approx 5000 published reports to select the reactions and methods that work, and that are the most relevant for medicinal and natural products chemistry

READERSHIP: Medicinal chemists, organic chemists, natural products chemists, pharmaceutical industry

SERIES: METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

APR 2012 600PP 978-3-527-33185-7 CL €159.00

Case Studies in Modern Drug Discovery and Development

Case Studies in Modern Drug Discovery and Development

XIANHAI HUANG & ROBERT G. ASLANIAN

Both of Merck

- ❖ Features cases studies of some of the most important drugs discovered during the rational design era, like Januvia and Singulair and focuses each case study on one therapeutic target: infections, cellular adaptation, and cancers
- ❖ Helps medicinal chemists quickly master the drug discovery process – including pharmacology, drug metabolism, biology, drug development, and clinical studies
- ❖ Covers almost all aspects of the drug discovery process, with detailed examples to showcase science and technology
- ❖ Promotes interdisciplinary communication and collaboration between medicinal chemists and pharmacologists

READERSHIP: Medicinal chemists, pharmacologists, organic and synthetic chemists, pharmaceutical industry labs, research scientists in lead optimization and process development, graduate students and courses in drug discovery, medicinal chemistry, drug synthesis, pharmaceutical science, pharmacology

JUN 2012 528PP 978-0-470-60181-5 CL €99.90

The Drug Discovery Experience

The Drug Discovery Experience

Practices, Processes, and Perspectives

JIE JACK LI & E. J. COREY

Bristol Myers Squibb, USA; Harvard University, USA

- ❖ Developed by two proven and leading scholars from industry and academia: Jie Jack Li and E.J. Corey
- ❖ Serves as a valuable tool and reference to preserve and present drug discovery know-how that is at risk during pharma industry downsizing and shift into biotech
- ❖ Includes case studies, historical information, current methods, and future perspectives in one book
- ❖ Covers major fields of drug discovery from target selection to each major therapeutic area

READERSHIP: Novice medicinal and process chemists in the pharmaceutical and biotech industries; medicinal, organic, synthetic, process chemists; graduate students and courses in organic chemistry, synthetic organic chemistry, heterocyclic chemistry, medicinal chemistry, drug synthesis

JUN 2012 600PP 978-0-470-94235-2 CL €109.00

Pharmaceutical Lifecycle Management

Making the Most of Each and Every Brand

TONY ELLERY & NEAL HANSEN

Ellery Pharma Consulting; Datamonitor's Healthcare Consulting Practice

- ❖ Helps pharmaceutical professionals understand challenges facing the industry and the role lifecycle management (LCM) has in confronting them
- ❖ Cites recent examples and case histories, showing how different measures can be combined to create winning strategies
- ❖ Presents a systematic discussion of LCM strategies that can help the pharma industry maximize their drug development programs and brand management
- ❖ Has a practical, hands-on section for project / brand teams on the mechanics of how to actually design and write a convincing LCM Plan

READERSHIP: Pharmaceutical executives and managers, including the following: Drug company CEO's, heads of development and marketing, development project leaders and project teams, brand directors and brand teams formulations scientists, drug regulatory affairs managers, patent and IP professionals consultants, trainers, and contract research organizations (CROs)

JUN 2012 352PP 978-0-470-48753-2 CL €77.90

**Pharmaceutical
Lifecycle
Management**

Drug Delivery Applications of Noninvasive Imaging

Validation from Biodistribution to Sites of Action

EDWARD F. JACKSON, MEI TIAN & CHUN LI

All of University of Texas M.D. Anderson Cancer Center, USA

- ❖ Helps readers to solve problems related to image-guided drug delivery
- ❖ Discusses challenges, pitfalls, and practical issues at the intersection of imaging and drug delivery
- ❖ Addresses a hot topic of research and focus of Federal funding initiatives the study of drug delivery with imaging techniques
- ❖ Provides methods, practices, and guidance for design and evaluation of drug delivery systems and includes chapters on nanoparticles as delivery systems

READERSHIP: Pharmaceutical researchers and scientists developing drug delivery systems, contract research organizations (CROs) involved with pharma technologies, drug delivery and biotech companies, areas include: biomedical, pharmaceuticals, nanomedicine, radiology, pharmacology, cancer, biochemistry, and molecular biology

JUN 2012 448PP 978-0-470-63347-2 CL €129.00

**Drug Delivery
Applications
of Noninvasive
Imaging**

Nanomaterials for Pharmaceutical Scientists

SHAWN YIN & ALEXANDER WEI

Bristol-Myers Squibb, USA; Purdue University, USA

- ❖ Provides a broad overview of applying nanomaterials in pharmaceutical science
- ❖ Introduces nanotechnology concepts to pharmaceutical scientists and other non-physical science professionals
- ❖ Covers nanomaterial characterization techniques like diffraction, electron microscopic, spectroscopy
- ❖ Has a chapter describing the environmental and human health impacts of nanotechnology from Vicki Colvin of Rice University

READERSHIP: Industrial and academic researchers in pharmaceutical technologies, chemists studying layered inorganic materials (like ionic clays) or self-assembly of systems for use in designing drugs, university course in pharmacy, drug delivery, members of: American Association of Pharmaceutical Scientists (AAPS), American Chemical Society (ACS), American Institute of Chemical Engineers (AIChE), Controlled Release Society, readers of: Pharmaceutical Science, Journal of Controlled Release, Medicinal Research Reviews, Pharmaceutical Research, International Journal of Pharmaceutics

JUN 2012 512PP 978-0-470-04143-7 CL €95.90

**Nanomaterials
for
Pharmaceutical
Scientists**

Management of Chemical and Biological Samples for Screening Applications

MARK WIGGLESWORTH & TERRY WOOD

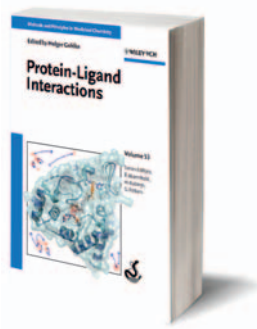
GlaxoSmithKline, Harlow, UK; Pfizer, Sandwich, UK

- ❖ Despite regular conferences on the topic, no comprehensive reference on managing large chemical or biological libraries has yet been published
- ❖ Libraries of small molecules as well as biobanks containing biomolecules, microorganisms or tissue samples are treated here
- ❖ With more and more publicly accessible compound collections available, the academic sector has joined the pharmaceutical industry as the main user of high-throughput assay technology
- ❖ Brings together the expertise from several large pharma companies (Pfizer, GSK, Merck, Roche, AstraZeneca) who are among the pioneers of this technology

READERSHIP: Medicinal chemists, pharmaceutical industry, biotechnologists, analytical chemists

FEB 2012 424PP 978-3-527-32822-2 CL €139.00





Protein-Ligand Interactions

HOLGER GOHLKE, RAIMUND MANNHOLD, HUGO KUBINYI & GERD FOLKERS

University of Düsseldorf, Germany; University of Düsseldorf, Germany; University of Heidelberg, Germany; Swiss Institute of Technology (ETH), Zürich, Switzerland

- ❖ Key content for every medicinal chemist: The understanding of ligand-target interactions is the basic skill that every medicinal chemist needs
- ❖ The content of this volume is relevant for all drug classes and therapeutic fields
- ❖ Best-selling topic: A previous volume on the topic (by two different editors) ranks among the all-time best-sellers in the series
- ❖ Innovative and forward-looking: Rather than reiterating decades-old knowledge, this volume focuses on recent achievements and looks at future angles of development

READERSHIP: Medicinal chemists, biochemists, pharmaceutical industry, biotechnologists

SERIES: METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

JUN 2012 420PP 978-3-527-32966-3 CL €139.00



Predictive Approaches in Drug Discovery and Development

Biomarkers and In Vitro / In Vivo Correlations

J. ANDREW WILLIAMS, RICHARD LALONDE, JEFFREY R. KOUP, DAVID D. CHRIST & SEAN EKINS

Pfizer Global Research and Development; SNC Partners LLC; University of Maryland, USA

- ❖ Covers all aspects of biomarker research applied to drug discovery and development
- ❖ Appraises the use of genomic, biochemical, and protein biomarkers in drug discovery and development
- ❖ Offers case histories and lessons from successful and unsuccessful applications of biomarkers
- ❖ Includes key chapters on GLP validation, safety biomarkers, proteomics biomarkers, as well as key examples in clinical development

READERSHIP: Pharmaceutical scientists pursuing drug research and development, including management, bench-level pharmacologists, and toxicologists; Clinical pharmacologists and clinicians, ADME/Tox and pharmaceutical scientists and students; Pharmaceutical companies interested in improving decision making and reducing costs

SERIES: WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

JUN 2012 410PP 978-0-470-17083-0 CL €99.90



Applications of Transition Metal Catalysis in Drug Discovery and Development

An Industrial Perspective

MATTHEW L. CRAWLEY & BARRY M. TROST

Main Line Health, USA; Stanford University, USA

- ❖ Focuses on transition metal catalyzed processes applied to the efficient creation of drugs
- ❖ Gives unique insight as to how novel, often academic, reactions have been transformed into scalable industrial processes
- ❖ Bridges the gap between academic research and industrial applications of transition metal reactions
- ❖ Lays the groundwork for developing transition metal catalyzed processes to deliver new drug candidates

READERSHIP: Organic, medicinal, and process chemists in industry and academia, graduate courses in organic, organometallic, medicinal, synthetic chemistry; drug discovery

JUN 2012 400PP 978-0-470-63132-4 CL €87.90



Strategies for Virtual Drug Discovery

MARIA A. GRISHINA & VLADIMIR A. POTEKIN

Both of Chelyabinsk State University, Russia

- ❖ Helps readers to understand the complicated aspects and problems related to biological drug action and modeling methods to aid drug discovery
- ❖ Includes methods and techniques (QSAR, molecular docking, 3D classification) with case studies of applications
- ❖ Offers a valuable approach to guide readers in thinking broadly when applying computational approaches to drug discovery
- ❖ Address the two major problems in drug discovery modeling: selection of descriptors/chemical properties and data analysis

READERSHIP: Pharmaceutical chemists, medicinal chemists, computational chemists, academic and professional researchers in areas such as medicinal chemistry, pharmacy, structural drug design, biochemistry, bioinformatics, pharmaceutical science, computational chemistry and chemical biology

JUN 2012 520PP 978-0-470-50541-0 CL €109.00

Biopharmaceutics Modeling and Simulations

Theory, Practice, Methods, and Applications

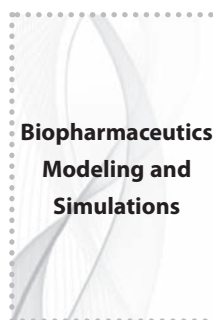
KIYOHICO SUGANO

Pfizer Global Research and Development

- ❖ Offers a guide to the tools and practices for modeling biopharmaceutics, combining both theoretical basis and practical approaches
- ❖ Features practical application examples in drug research: running and interpreting models, compound and formulation selection, mechanisms, virtual clinical trials
- ❖ Helps in the design of drug formulations for achieving desired medicinal effects
- ❖ Explains how to simulate significant drug processes and describes good practice for reporting results

READERSHIP: Pharmaceutical scientists, pharmacokinetics scientists, formulation scientists, medicinal chemists, clinical pharmacologists; pharmaceutical, biopharmaceutical, and biotech industry: drug design, drug metabolism, DMPK, formulation, drug delivery; other drug discovery scientists: engineers, pharmacologists, formulators, and preclinical development scientists

JUN 2012 464PP 978-1-1180-2868-1 CL €109.00



**Biopharmaceutics
Modeling and
Simulations**

Lead Optimization for Medicinal Chemists - Pharmacokinetic Properties of Functional Groups and Organic Compounds

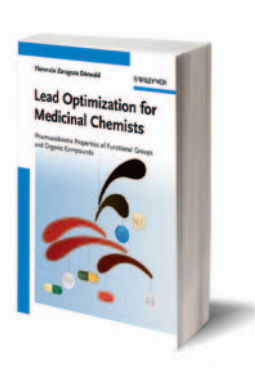
FLORENCIO ZARAGOZA DÖRWALD

Lonza AG, Switzerland

- ❖ The book is of great interest for every medicinal chemist as it describes how small structural modifications affect the pharmacokinetic properties of a drug candidate
- ❖ Contains basic concepts of drug discovery and development, provides case studies and guidelines, and discusses the dependence of pharmacokinetic properties on the structure of compounds in detail
- ❖ It contains an exhaustive tabular collection of human pharmacokinetic data, arranged according to the structure of the drug, not its target or indication
- ❖ The author has extensive working experience in pharmaceutical companies and exactly knows which information medicinal chemists in academia and industry require

READERSHIP: Medicinal chemists, pharmaceutical chemists, organic chemists, ph.d. students in pharmaceuticals, pharmacologists, pharmaceutical industry, company libraries, libraries at universities

MAY 2012 380PP 978-3-527-33226-7 CL €149.00



Chitosan-Based Systems for Biopharmaceuticals

Delivery, Targeting and Polymer Therapeutics

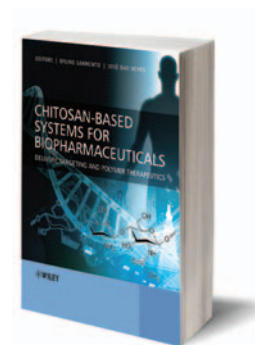
BRUNO SARMENTO & JOSE DAS NEVES

Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Porto, Portugal; Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Porto, Portugal

- ❖ The first title exclusively dedicated to the use of chitosan and its derivatives in the biopharmaceutical field
- ❖ Comprises of an international collection of contributors from a range of related fields
- ❖ Includes a discussion of manufacturing, safety and regulatory aspects

READERSHIP: Researchers in academia and industry working in drug formulation and delivery, biopharmaceuticals, medicinal chemistry, pharmacy, bioengineering and new materials development; students of pharmacy and pharmaceutical sciences; regulatory professionals

FEB 2012 600PP 978-0-470-97832-0 CL €162.00



Hot-Melt Extrusion

Pharmaceutical Applications

DIONYSIOS DOUROUMIS

University of Greenwich, UK

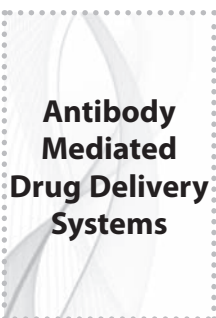
- ❖ First book related to the use of hot melt extrusion for pharmaceutical applications
- ❖ Contributors are well respected experts in HME areas with worldwide reputation and are drawn globally from academia and industry
- ❖ Provides specific examples of solid dosage forms and drug delivery systems created using HME
- ❖ Takes a multidisciplinary integrated approach from the basic science to engineering practice

READERSHIP: Researchers in academia and industry working in drug formulation and delivery, pharmaceutical engineering and processing, and polymers and materials science; Students of pharmaceutical sciences and pharmacy (HME forms part of the "Pharmaceutics" elements of these courses)

MAY 2012 384PP 978-0-470-71118-7 CL €142.00



**Hot-Melt
Extrusion**



Antibody Mediated Drug Delivery Systems

Concepts, Technology, and Applications

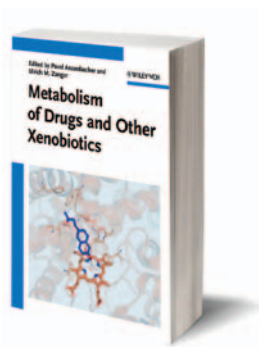
YASHWANT PATHAK & SIMON BENITA

Sullivan University, USA; Hebrew University of Jerusalem, Israel

- ❖ Offers a reference for design, manufacturing, and targeting antibodies against specific diseases
- ❖ Discusses applications of formulation and characterization techniques
- ❖ Addresses one of the, if not the, fastest growing sector (monoclonal antibodies) in the pharma and biotech market and pulls together an otherwise-scattered myriad of information on antibody drug delivery systems
- ❖ Guides readers to opportunities and challenges / solutions of using antibody-mediated delivery systems for generating novel therapeutics Includes applications in: cancer, pulmonary, ocular diseases; brain drug delivery; and vaccine delivery

READERSHIP: Industry and academic scientists / researchers involved in pharma and biotech drugs, contract research organizations (CROs) involved with pharma technologies, drug delivery and biotech companies, areas include: pharmaceuticals, pharmacologists, immunology, biotherapeutics, biochemistry, molecular biology, nanomedicine, and cancer

JUN 2012 480PP 978-0-470-61281-1 CL €119.00



Metabolism of Drugs and Other Xenobiotics

PAVEL ANZENBACHER & ULRICH M. ZANGER

Palacky University, Olomouc, Czech Republic; Institute of Clinical Pharmacology, Stuttgart, Germany

- ❖ With its systematic coverage of all important xenobiotic classes, this handbook is unique among the competition and provides quick and easy access for the practical toxicologist and drug researcher
- ❖ Whereas most competing works focus on drug metabolism only, the reader will find here a wide range of additional xenobiotic compounds, including food supplements, herbal preparations, agrochemicals and pollutants
- ❖ Numerous well documented case studies in parts two to four of the book will enrich any course on drug metabolism or molecular toxicology

READERSHIP: Toxicologists, pharmaceutical chemists, medicinal chemists, pharmaceutical industry, hospitals

APR 2012 500PP 978-3-527-32903-8 CL €149.00



Dioxins and Health

3rd Edition

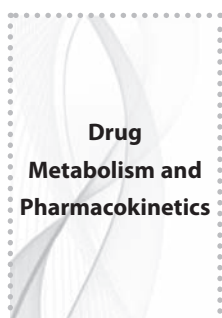
ARNOLD SCHECTER

University of Texas School of Public Health, Texas, USA

- ❖ Presented in a new expanded format this single volume book provides essential information on Dioxins, PCBs, and other important toxic pollutants written by some of the most respected and cited scientists in the field
- ❖ Unique, comprehensive, and reliable reference book that provides scientific data of Dioxins, PCBs, brominated flame retardants and perfluorinated chemicals and other related compounds
- ❖ Updates the previous edition covering any new science involved in dioxin and PCB literature
- ❖ Expands upon the previous edition covering topics beyond dioxins to look at other pertinent persistent organic pollutants, such as brominated flame retardants, phthalates, and perfluorinated chemicals

READERSHIP: Environmental toxicology researchers, professionals in toxicology, environmental health, public health, risk communication, endocrinologists, reproductive biologists, andrologists, ob-gyn, and pediatricians

JUN 2012 544PP 978-0-470-60529-5 CL €119.00



Drug Metabolism and Pharmacokinetics

The Journey of a Chemical Through the Body

GLYN STEVENTON, STEPHEN MITCHELL & ANDREW HUTT

University of Surrey, UK; Imperial College, UK; University of Hertfordshire, UK

- ❖ Presents the story of a drug's route through the body as a seamless journey from intake to removal, describing both chemistry and biology, thereby promoting an holistic understanding
- ❖ First book to combine both qualitative aspects of a drug's progression through the body (metabolism) and quantitative (pharmacokinetics)
- ❖ Written by a team of experts with decades worth of experience teaching this subject to undergraduates
- ❖ Includes learning outcomes, references, exercises and case studies

READERSHIP: Students of pharmacy and pharmacology, pharmaceutical sciences, medicinal chemistry, toxicology, biochemistry and other health-care related subjects, researchers in the pharmaceutical and allied (veterinary products, agricultural biocide) industries

MAY 2012 336PP 978-0-470-71080-7 CL €129.00

Ordered Mesoporous Materials

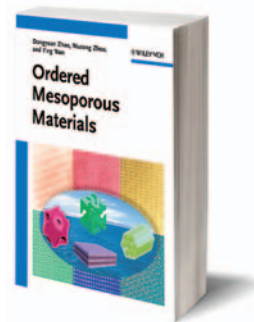
DONGYUAN ZHAO, YING WAN & WUZONG ZHOU

Fudan University, Shanghai, China; Shanghai Normal University, China; University of St. Andrews, UK

- ❖ Written by leading experts in the field, this is the first book devoted to all aspects and types of mesoporous materials
- ❖ The emphasis is on synthesis (the heart of current technological advances) but characterization and applications are also discussed in-depth
- ❖ Fundamentals as well as cutting-edge research results are covered, ensuring the book serves as a handy reference for researchers as well as those starting out in the field
- ❖ The materials discussed have wide-ranging applications, from catalysis and optics to nanotechnology - of direct relevance to the chemical, petroleum, pharmaceutical and electronics industries

READERSHIP: Materials scientists, organic chemists, inorganic chemists, solid state chemists, catalytic chemists, chemical engineers, physicists, libraries

JUN 2012 390PP 978-3-527-32635-8 CL €149.00



More Fun Than Fun

The Autobiography of F. Albert Cotton

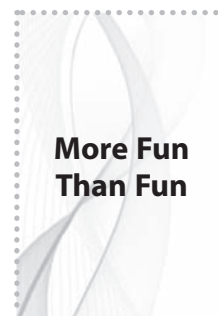
F. ALBERT COTTON

Texas A&M University, USA

- ❖ Fascinating autobiography by F. Albert Cotton, completed before the accident that led to his death in February 2007
- ❖ An engaging insight into the mind and life of this famous, sometimes controversial inorganic chemist
- ❖ An in-depth look at his life, both personal and professional, this book includes stories that explain the inspiration for his love of science and teaching

READERSHIP: General interest science readers; Inorganic chemists in academia, industry; Public libraries

JUN 2012 512PP 978-0-470-41023-3 CL €53.90



Asymmetric Synthesis

More Methods and Applications

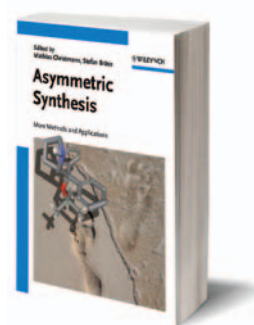
MATHIAS CHRISTMANN & STEFAN BRÄSE

University of Dortmund, Germany; University of Karlsruhe, Germany

- ❖ Proven and successful concept: This book is the sequel of the well-received "Asymmetric Synthesis - The Essentials"
- ❖ The Who-is-who in organic chemistry: With a foreword by Nobel Laureate E. J. Corey and contributions by internationally acclaimed researchers like B. M. Trost, L. Overman, F. Stoddart, E. Jacobsen, and B. List
- ❖ Clearly structured concept: Each contribution shows similar features and the short biographies of the experts is a very useful tool for students, when selecting their Ph.D. or Postdoc topic and environment
- ❖ High-quality information and broad range of topics: all important areas are covered, e.g. metal catalysis, organocatalysis, physical organic chemistry, analytical chemistry, and its applications in total synthesis, materials research and chemical industry

READERSHIP: Organic chemists, catalytic chemists, chemists working with/on organometallics, master's students in chemistry, Ph.D. students in chemistry, chemical industry, pharmaceutical industry, libraries

JUN 2012 400PP 978-3-527-32921-2 CL €129.00



The Chemistry of Selenium and Tellurium

ZVI Z. RAPPOPORT

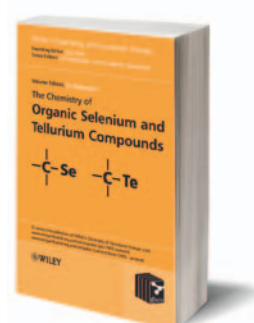
The Hebrew University, Jerusalem Israel

- ❖ Selenium and Tellurium chemistry are of key importance
- ❖ Provides wide ranging applications in chemical and pharma industries
- ❖ At the borderline between metals and nonmetals these two elements offer real alternatives
- ❖ All information in two volumes, in the traditional high quality Series style
- ❖ Provides contributions by leading experts

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Introduction to the Strategies of Organic Synthesis

LAURIE STARKEY

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- ❖ Offers a student-friendly approach that incorporates a review of organic reactions
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- ❖ Incorporates a review of organic reactions before looking at the same reaction from a synthetic chemist's point of view

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New Strategies in Chemical Synthesis and Catalysis

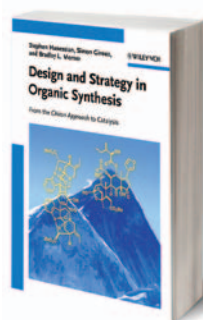
BRUNO PIGNATARO

University of Palermo, Italy

- ❖ Contents: This book gives a comprehensive overview on the essential topics of state-of-the-art chemical synthesis, written by the rising stars in the field
- ❖ Core areas covered: Covers organic, inorganic, organometallic, biochemical synthesis and catalysis
- ❖ Authors: The rising stars in European chemistry, proven by the European Young Scientists Award competition in 2010
- ❖ Gives a great overview what is going on in chemical synthesis, the essential core topic for each chemists, working in academia and industry

READERSHIP: Organic chemists, inorganic chemists, biochemists, chemists working with/on organometallics, Ph.D. students in chemistry, libraries

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Design and Strategy in Organic Synthesis

From the Chiron Approach to Catalysis

STEPHEN HANESSIAN, SIMON GIROUX & BRADLEY L. MERNER

Universite de Montreal, Canada; Harvard University, Cambridge, USA; Universite de Montreal, Canada

- ❖ This long-awaited graduate level textbook adopts a refreshingly unique approach, and is written by one of the world's leading organic chemists
- ❖ Following an introductory look at the concept of synthesis, the text goes on to discuss sources of enantiomerically pure compounds, the Chiron approach, locating the various substructures, synthesis with the various precursors and computer-aided synthesis
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READERSHIP: Organic chemists, students in chemistry, lecturers in chemistry, chemical industry

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Organic Synthesis Using Transition Metals

Organic Synthesis Using Transition Metals

2nd Edition

RODERICK BATES

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Scope, Variations and Applications

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- ❖ A key resource for those working in organic synthesis, organometallic chemistry, natural products synthesis, and transition-metal catalysis

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The Pauson-Khand Reaction

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Oxidation, Hydrogenation, and C-X Bond Forming Reactions

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Uppsala University, Sweden

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- ❖ Special attention is focused on the improvement of efficiency and sustainability of important catalytic processes, such as oxidation, hydrogenation and cross-coupling reactions

READERSHIP: Organic chemists, catalytic chemists, Ph.D. students in chemistry, chemists working with/on organometallics, chemists in industry, libraries at universities, company libraries

APR 2012 400PP 978-3-527-33097-3 CL €139.00



Organic Chemistry - Breakthroughs and Perspectives

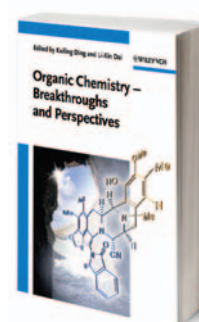
KUILING DING & LI-XIN DAI

Shanghai Institute of Organic Chemistry, Shanghai, P.R. China; Shanghai Institute of Organic Chemistry, Shanghai, P. R. China

- ❖ Unique content: the most important achievements in organic chemistry during the last decade are presented in one handy book
- ❖ Perfect and highly useful source of manifold information for graduate students, post-docs and researchers
- ❖ Each chapter contains two or three personal commentaries about the field written by leading experts in the field which can't be found anywhere else
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READERSHIP: Organic chemists, chemists working with/on organometallics, catalytic chemists, master's students in chemistry, Ph.D. students in chemistry, libraries

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Organic Reactions, Volume 77

SCOTT E. DENMARK

University of Illinois, Urbana-Champaign

- ❖ A comprehensive resource on organic reactions which includes tables that contain all possible examples of the reactions under consideration and each reaction is fully referenced to the primary literature
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- ❖ Covers the ever-increasing emphasis of transition metal catalysis in organic synthesis
- ❖ Represents some of the most important transformations that enable the construction of carbon-carbon bonds, heterocycles and carbon-heteroatom bonds

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Organic Reactions, Volume 77

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Plant Bioactives and Drug Discovery

Principles, Practice, and Perspectives

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Chemical-Pharmaceutical Investigations Center, Itajai Valley University, Brazil

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- ❖ Highlights the complexity and applications of plant bioactive metabolites in organic and medicinal chemistry
- ❖ Offers a multidisciplinary and broad-based overview of natural products drug discovery
- ❖ Describes the role of natural products as drugs targeting specific disease areas: neuro-, inflammation, infectious, cancer

READERSHIP: Organic and medicinal chemists, natural product chemists, biochemists, pharmacologists; researchers and graduate students in colleges or departments of plant medicines, pharmacognosy, pharmaceutical science: courses / programs include pharmacognosy, medicinal chemistry, organic synthesis, biosynthesis, natural products, phytochemistry; pharmaceutical and natural product industry

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Systems Biology for Traditional Chinese Medicine

Systems Biology for Traditional Chinese Medicine

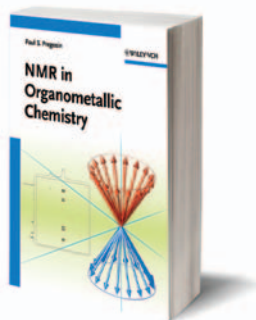
GUOAN LUO

Modern Research Center for Traditional Chinese Medicine, Tsinghua University, Beijing

- ❖ Focuses on systems biology approaches to Traditional Chinese Medicine (TCM) herbal medicine drug discovery
- ❖ Describes the mechanisms of TCM in the molecular and systems levels based on multiple platforms: chemomics, genomics, proteomics and metabolomics
- ❖ Puts modern scientific technologies in the context of TCM, aiding scientists / practitioners of TCM to improve experimental designs and strategies
- ❖ Illustrates how the systems biology approach is really in sync with TCM's traditional, holistic therapeutic strategies and treatment modalities

READERSHIP: Pharmaceutical scientists in industry and academic labs; anyone developing or researching drugs from TCM, herbal, and botanical sources. Computational biologists, pharmacologists, medicinal chemists

JUN 2012 464PP 978-0-470-63797-5 CL €109.00



NMR in Organometallic Chemistry

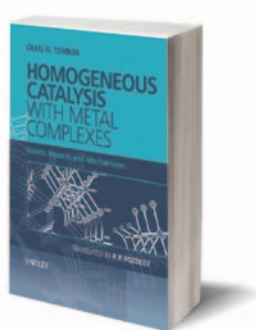
PAUL S. PREGOSIN

ETH Zurich, Switzerland

- ❖ Contains what one needs to know to work out routine research problems in NMR in coordination and organometallic chemistry
- ❖ Problem-solving approach: With real examples from recent literature to show how the data is interpreted
- ❖ Author has an excellent reputation in practical NMR spectroscopy and in organometallic chemistry, as well as being known for producing clear and well-written texts
- ❖ This is a truly needed book: there is no other current book focusing on using NMR for studying organometallic compounds

READERSHIP: Inorganic chemists, chemists working with/on organometallics, bioinorganic chemists, spectroscopists, Ph.D. students in chemistry, catalytic chemists, libraries

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Kinetic Aspects and Mechanisms

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READERSHIP: Written for the specialists in the field of kinetics and catalysis and may serve as a text for post-graduate students

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Laboratory for Molecular Electronics, University of Alabama, USA

- ❖ Addresses the relevant equations, theories, and tools in the fields of chemistry, physics, materials science, and engineering with breadth and depth not available in any other single resource
- ❖ Discusses topics such as mechanics, special relativity, electricity and magnetism, quantum chemistry, thermodynamics, electrochemistry, statistical mechanics, symmetry, solid state physics and electronics
- ❖ Addresses all possible energy and electrical sources, detectors, and algorithms, as well as all presently available major and minor instrumentation
- ❖ Provides worked-out problems and suggested fill-in problems interspersed throughout the chapters

READERSHIP: Researchers, professors, and graduate students in the fields of chemistry, physics, materials science, and engineering

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The Chemist's Toolbox

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- ❖ No competing title available
- ❖ Many conferences on zeolites and microporous solids are organized internationally and good marketing platforms for the book

READERSHIP: Chemists, physical chemists, materials scientists, physicists, analytical chemists, libraries

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New Coupling Agents in Polymer and Surface Science

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Université Paris Diderot, France

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- ❖ No competition: This is the first book of its kind on the market
- ❖ The book covers fundamental diazonium chemistry as well as manifold applications in fields like polymers, sensors, electronics, nanotechnology and more
- ❖ Editor and authors are world leading experts in the area of surface chemistry

READERSHIP: Surface chemists, polymer chemists, materials scientists, chemists in industry, Ph.D. students in chemistry, Ph.D. students in material sciences, libraries, electrotechnical industry

JUN 2012 350PP 978-3-527-32998-4 CL €139.00

Aryl Diazonium Salts



Functionalization of Semiconductor Surfaces

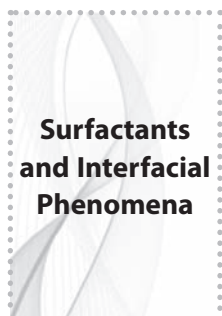
FENG TAO & STEVEN BERNASEK

University of Notre Dame, USA; Princeton University, USA

- ❖ Comprehensively presents all reaction mechanisms involved in the functionalization are reviewed
- ❖ Elucidates the link between the exploration of reaction mechanisms for organic/biological functionalization of semiconductor surfaces and the technological applications of these functionalized semiconductor surfaces
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- ❖ Cuts R&D time for professionals needing to select surfactants for various applications and clearly explains the mechanisms by which surfactants operate in interfacial processes
- ❖ Problems are featured at the end of each chapter and includes many tables of data as reference that are not compiled elsewhere

READERSHIP: Upper-level undergraduate and graduate students in surface chemistry; surface and colloid scientists and professionals, industrial chemists, and chemical engineers

APR 2012 584PP 978-0-470-54194-4 CL €119.00



Molecular Fluorescence

Principles and Applications

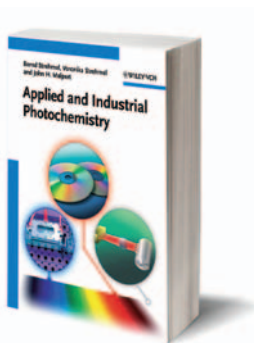
BERNARD VALEUR & MÁRIO NUNO BERBERAN-SANTOS

Laboratoire de Chimie Générale, Conservatoire des Arts et des Métiers; Centro de Química-Física Molecular, Lisboa, Portugal

- ❖ The strength of the book lies in its clear and understandable presentation, and in the thoroughness of the descriptions of fluorescence applications
- ❖ The first edition was a true bestseller: "The Valeur" is now a known concept in the community; the second edition is completely updated and revised with approximately 30% new material, including 2 new chapters on applications
- ❖ Provides a comprehensive overview of this area written at an introductory level
- ❖ This very sensitive and important method is applied in various areas of chemistry and life sciences

READERSHIP: Physical chemists, photochemists, molecular physicists, complex chemists, lecturers in chemistry, students in chemistry, lecturers in physics, students in physics, molecular biologists, food chemists, libraries

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- ❖ The only book on the market that presents industrial photochemical processes and applications
- ❖ This book can drive the impact of green and sustainable chemistry in education and in the industrial environment
- ❖ Provides a wealth of applications in industrial organic and polymer chemistry, pharmaceutical products, water, air and surface disinfection, conversion and storage of solar energy, OLEDs etc.
- ❖ Contains what the engineer needs to know and describes equipment needed

READERSHIP: Graduate students, students in chemistry, students in chemical engineering, students of biotechnology, lecturers, chemical industry, engineering students, materials scientists, biotechnologists, bioengineers, instructors in the chemical industry, lamp and lighting manufacturers, chemical engineers, process engineers, chemists in industry, libraries

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Materials for Low-Temperature Fuel Cells

BRADLEY LADEWIG, SAN PING JIANG & YUSHAN YAN

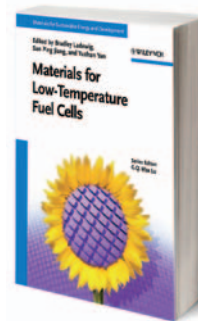
Monash University, Victoria, Australia; Curtin University of Technology, Perth, Australia; University of California, Riverside, USA

- ❖ Provides a critical and concise review and assessment of key materials in various low-temperature fuel cells
- ❖ Emphasis on the technical development and applications of key materials (as anodes, cathodes, electrolytes, interconnects, catalysts)
- ❖ Covers fundamental principles, advancement, challenges, and important current research themes
- ❖ Of direct relevance to military, commercial and industrial applications - particularly stationary power stations, vehicles, and mobile devices

READERSHIP: Materials scientists, electrochemists, physicists, engineers, physical chemists, automobile industry, electronics engineers, semiconductor industry, libraries

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Advanced Lithium-Ion Batteries

Recent Trends and Perspectives

MAX LU, GHOLAM-ABBAS NAZRI, PALANI BALAYA, ARUMUGAM MANTHIRAM, ATSUG

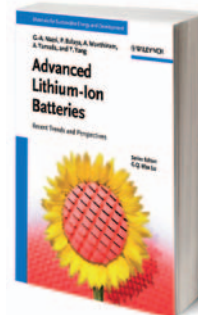
YAMADA & YONG YANG

University of Queensland, Brisbane, Australia; GM Research & Development Center, Warren, Michigan, USA; National University of Singapore, Republic of Singapore; University of Texas, Austin, Texas, USA; The University of Tokyo, Japan; Xiamen University, Xiamen, China

- ❖ Addresses fundamentals such as electrochemistry, thermodynamics, transport, and storage
- ❖ Provides up-to-date information on the various components that make up the lithium battery as well as on advanced characterization techniques, safety issues, and applications
- ❖ Applications include electric vehicles, large batteries for efficient storage and utilization of renewable energy (solar, wind), and for electrical components of direct relevance to the automobile, electronics and semiconductor industries
- ❖ Highly illustrated to aid understanding

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Principles and Applications of Lithium Secondary Batteries

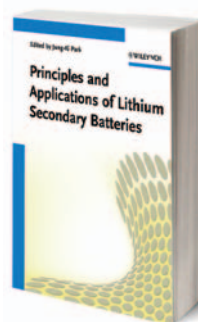
JUNG-KI PARK

Korea Advanced Institute of Science and Technology, Daejeon, Korea

- ❖ Cohesive and systematic coverage of fundamentals, battery chemistry, analytical techniques, materials, manufacturing technologies, design, evaluation methods, and applications
- ❖ Provides an ideal introduction to lithium battery science and technology - explains the principles and applications based on clear and objective criticism
- ❖ Assists the reader grasp key concepts quickly, through its consistent, straightforward approach
- ❖ Written by a close knit group of experts with diverse backgrounds to authoritatively cover all aspects of this interdisciplinary field

READERSHIP: Master's students in material sciences, Ph.D. students in material sciences, materials scientists, electrochemists, physicists, engineers, automobile industry, electrotechnical industry, computer hardware manufacturers, semiconductor industry, university institutes and libraries, company libraries

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Cholesterol Regulation of Ion Channels and Receptors

IRENA LEVITAN & FRANCISCO BARRANTES

IUBMB

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- ❖ Provides a comprehensive critical overview of the field, focusing on impact of cholesterol on membrane structure, cholesterol regulation of ion channels and cholesterol regulation of receptors
- ❖ Only comprehensive book of its kind that discusses the mechanisms underlying the effects of cholesterol on the cellular level and first book of its kind to describe in depth the mechanisms of how cholesterol regulates two major classes of membrane proteins
- ❖ Primary source of information on the topic for researchers both in academia and in drug development industry

READERSHIP: Researches in the fields of ion channels, receptors and membrane biophysics; researches in drug development for cholesterol-related diseases; graduate and undergraduate students in fields of biophysics and drug development

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Drug Discovery and Development and the Treatment of Disease

A Chemical Biology Approach

NATANYA CIVJAN

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- ❖ Twenty-two self contained peer-reviewed articles
- ❖ Provides relevant and readily accessible information to upper-level students and to scientists in adjacent disciplines

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Chemical Biology of Natural Products and Natural Product Models

NATANYA CIVJAN

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- ❖ Based on the award winning Wiley Encyclopedia of Chemical Biology
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Biochemical Pharmacology

MICHAEL PALMER, ALICE CHAN, THORSTEN DIECKMANN & JOHN HONEK

University of Waterloo; University of Alberta; University of Waterloo; University of Waterloo

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- ❖ Illustrates how a drug interacts with a target receptor or enzyme at the molecular level
- ❖ Uses representative examples in the chapters about major functional classes of drugs
- ❖ Educates researchers in drug design about the problems of drug distribution, elimination, and toxicity
- ❖ Includes complementary electronic materials; PowerPoint slides, study problems, and solutions manual

READERSHIP: Graduate and advanced undergraduate courses on Biochemical Pharmacology; academic and professional researchers interested in pharmacokinetics / pharmacodynamics, pharmaceutical science and drug action, and pharmacology and toxicology

APR 2012 416PP 978-0-470-17445-6 CL €87.90

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Principles of Biochemistry

4th Edition, International Student Version

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University of Pennsylvania; Seattle, Washington; Swarthmore College

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- ❖ The latest edition continues this tradition, and additionally incorporates coverage of recent research and an expanded focus on preparing and supporting students throughout the course
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READERSHIP: Undergraduate students taking an introductory biochemistry course

APR 2012 350PP 978-1-1180-9244-6 PR €63.90

Handbook of RNA Biochemistry

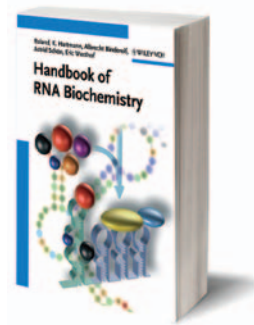
ROLAND K. HARTMANN, ALBRECHT BINDEREIF, ASTRID SCHÖN & ERIC WESTHOF

University of Marburg, Germany; University of Giessen, Germany; University of Leipzig, Germany; University of Strasbourg, France

- ❖ Highly acclaimed: The first edition was an instant success and has received enthusiastic reviews
- ❖ Unmatched in scope and quality: Nowhere else is the practical side of RNA research covered in more breadth and depth
- ❖ Almost 100 specialists from across the world share their most recent expertise, including troubleshooting hints not available from other publications
- ❖ Still a booming field: The discovery of catalytic functions of RNAs and their unexpected regulatory roles in the cell is fueling a great expansion in the field of RNA biochemistry

READERSHIP: Molecular biologists, biochemists, gene technologists, cell biologists, biotechnologists

APR 2012 1300PP 978-3-527-32764-5 CL €349.00



Protein Families

CHRISTINE A. ORENGO

- ❖ Represents the first book that combines descriptions of general philosophies of protein family classification systems (e.g. Pfam, Panther, SCOP, CATH) with detailed descriptions and examples of selected protein families found in different biological systems
- ❖ Addresses a field in which papers describing these databases and many of the protein families are highly cited—hence this book is of considerable interest to biochemists, molecular biologists, protein scientists, structural biologists, and bioinformaticians
- ❖ Includes contributions from well known people in the field who have made major contributions to the analysis of protein families (e.g. Eugene Koonin, Janet Thornton, Patricia Babbitt, Neil Rawlings, L. Aravind)
- ❖ Protein families represent a core theme within undergraduate and graduate courses in bioinformatics and is commonly taken by graduate students in biology

READERSHIP: Protein scientists and biochemists, biophysicists, structural biologists, computational biologists, bioinformaticians, experimental biologists, molecular biologists, chemical biologists; undergraduate and graduate students studying bioinformatics, molecular biology, and protein science

SERIES: WILEY SERIES IN PROTEIN AND PEPTIDE SCIENCE

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Chemistry, Biology and Clinical Applications

NEAL LUE & CHANTAL AUTEXIER

Cornell University, USA; McGill University, Canada

- ❖ Provides a comprehensive treatment of telomerase structure and function in a variety of organisms including yeast, ciliates, plants and mammals
- ❖ First book of its kind to discuss the current knowledge regarding the diversity of experimental systems as a special attribute of contemporary telomerase research, with each system offering unique insights and technical advantages
- ❖ Addresses the basic structure, mechanisms, and diversity of the essential and regulatory subunits of telomerase, as well as telomerase biogenesis, transcriptional and post-translational regulation, off-telomere functions of telomerase and the role of telomerase in cellular senescence, aging, and cancer

READERSHIP: Academic and clinical biochemists, enzymologists, protein scientists, cancer researchers, cell, molecular, and chromosome biologists, biophysicists, geneticists

MAY 2012 350PP 978-0-470-59204-5 CL €119.00



Green Energy from Solid Waste

A Practical Guide

RAMANATHAN SOMASUNDARAM

- ❖ Covers selection criteria in both developed and developing nations
- ❖ Includes case studies of waste to energy plants all over the world, presented along with their respective chapters, for example in the technologies chapter each technology is discussed with a case study
- ❖ Details every step right from waste generation, characterization, technology selection, project implementation, risk assessment, funding, and the relationship between climate change and waste
- ❖ Saves time and money by providing information for the proper selection of treatment technology

READERSHIP: Professional working in the field, both of waste management; Waste management engineers, environmental engineers, chemical engineers, civil engineers, mechanical engineers, environmental chemists and regulators consultants and contractors form part of private agencies; Post graduate and research students interested in solid waste management

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Fuel Cells Science and Engineering

Materials, Systems, Processes and Technologies

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- ❖ Explores mature evolving technologies for a clean, economically viable alternative to non-renewable energy
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- ❖ Top academic, government and industry researchers join together to develop commercial concepts

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How Oil and Gas Can Be Environmentally Sustainable

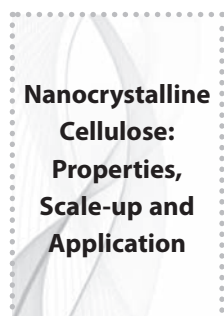
M. R. ISLAM

Dalhousie University, Canada

- ❖ Explains why current petroleum industry practices are inherently unsustainable and offers unique new solutions for "greening" the petroleum industry
- ❖ Discusses hot-button issues, such as global warming, carbon sequestration, zero-waste management, and sustainability
- ❖ Shows engineers and scientists how to implement the processes necessary to be more environmentally conscious
- ❖ Offers, for the first time, a new theory that certain carbons do not contribute to global warming, but it is their origin and the processes involved which do

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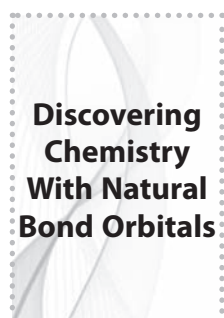
Nanocrystalline Cellulose: Properties, Scale-up and Application

WADOOD HAMAD

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University of California, Santa Barbara, USA

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- ❖ Complete solutions manual available to instructors
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Signal Processing Algorithm Design and Analysis

CHEIN-I CHANG

Department of Computer Science and Electrical Engineering, University of Maryland, Baltimore County, USA

- ❖ No similar book available in market except the author's introductory book, Hyperspectral Imaging: Techniques for Spectral Detection and Classification, published in 2003
- ❖ A thorough reference on the cutting edge technique of hyperspectral imaging in remote sensing data processing
- ❖ Includes discussion of applications used in the magnetic resonance imaging industry, and landmine detection technology

READERSHIP: Professionals and researchers in government agencies, industries, and academia working in the field of remote sensing, electromagnetics, and hyperspectral imaging

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Electrospinning

Materials, Processing, and Applications

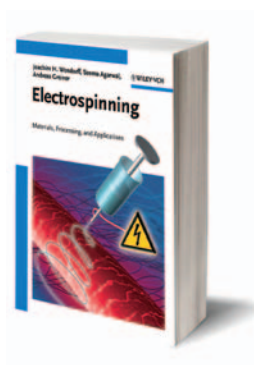
ANDREAS GREINER, JOACHIM H. WENDORFF, S. RAMAKRISHNA & SEEMA AGARWAL

Philipps-Universität, Marburg, Germany; Philipps-Universität, Marburg, Germany; National University of Singapore, Singapore; Philipps-Universität, Marburg, Germany

- ❖ This book summarizes the state-of-the art in electrospinning with detailed coverage of the various techniques, material systems and their resulting fiber structures and properties, theoretical aspects and applications
- ❖ Throughout the book, the current status of knowledge is introduced with a critical view on accomplishments and novel perspectives
- ❖ An experimental section gives hands-on guidance to beginners and experts alike

READERSHIP: Materials scientists, chemists, physicists, institutes, institutions, libraries, chemical industry

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Polyolefin Reaction Engineering

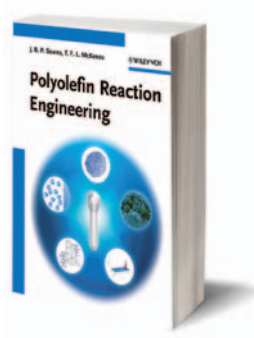
JOAO B. P. SOARES

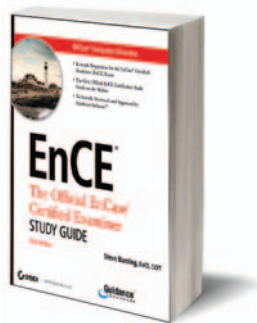
University of Waterloo, Department of Chemical Engineering, Ontario, Canada

- ❖ Addresses all issues related to the reaction engineering of polyolefins, one of today's most important commodity polymers
- ❖ Unique engineering approach relying on elegant mathematical modelling techniques to relate polymerization conditions, reactor and catalyst type to polyolefin properties
- ❖ Helps to design and optimize polymerization conditions to produce polyolefins with a given microstructure
- ❖ Presents the concepts needed to describe olefin polymerization at several levels (microscopic, particle scale, and reactor level) and shows how they apply to different industrial processes and laboratory-scale reactors

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

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EnCase Computer Forensics – The Official EnCE

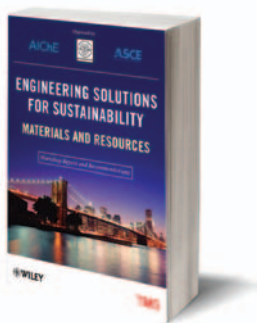
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STEVE BUNTING

- ❖ Covers new version of popular Guidance Forensic Software—Updated to cover new version of EnCase Forensic software version 7, and new EnCase Certified Examiner (EnCE) exam
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- ❖ Industry Leading Certification—The EnCE certification is recognized by both the law enforcement and corporate communities as a symbol of in-depth forensics knowledge
- ❖ Authoritative Author—Written by leading forensics specialists and EnCase trainer Steve Bunting

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Engineering Solutions for Sustainability

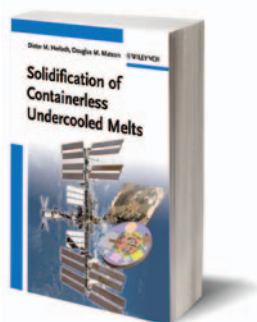
MATERIALS AND RESOURCES

The Minerals, Metals & Materials Society (TMS)

- ❖ Provides a wealth of resources on the topic of sustainable engineering
- ❖ Offers the engineering profession a multi-disciplinary blueprint for action for advancing societal sustainability through technological, educational, and public policy solutions
- ❖ A valuable compendium of sustainable engineering resources that includes an extensive bibliography, a recommended readings section, and a summary of key, cross-cutting initiatives recommended as priorities because of their potential transformative impact

READERSHIP: Practicing engineers, professors of engineering, engineering students in materials, mechanical, electrical, computer, civil, chemical, and biomedical engineering; university administrators responsible for engineering curriculum development

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Solidification of Containerless Undercooled Melts

DIETER M. HERLACH & DOUGLAS M. MATSON

Tufts University, Medford, USA

- ❖ Fundamentals and applications: the book explains all that is necessary to make solids from melts with defined properties - on earth and in space such as on the International Space Station
- ❖ Unique coverage: the combination of experiments and theory gives the reader the necessary background of the complicated solidification processes
- ❖ Practical impact: the presented methods and the obtained results help to improve the processing techniques and performance of metallic construction materials
- ❖ Concerted effort: brings together the top international researchers on solidification in one decisive reference work

READERSHIP: Materials scientists, solid state chemists, solid state physicists, metallurgists, metal processing industry, libraries

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Advanced Ceramic Coatings and Materials for Extreme Environments

Ceramic Engineering and Science Proceedings Volume 32, Issue 3

DONGMING ZHU, HUA-TAY LIN & YANCHUN ZHOU

Oak Ridge National Laboratory, USA

- ❖ Provides a useful resource for understanding the most valuable aspects of advanced ceramic coatings and interfaces
- ❖ Logically organized and carefully selected articles give insight into advanced ceramic coatings and interfaces

READERSHIP: Professional researchers in industry or government labs, academics in ceramic and glass science and engineering; associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM International, MRS); academic and industrial engineering libraries

SERIES: CERAMIC ENGINEERING AND SCIENCE PROCEEDINGS

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Advanced Processing and Manufacturing Technologies for Structural and Multifunctional Materials V

Ceramic Engineering and Science Proceedings Volume 32, Issue 8

TATSUKI OHJI & MRITYUNJAY SINGH

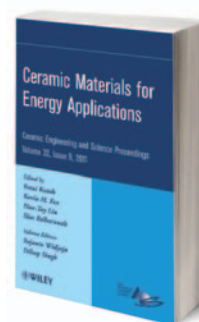
NASA Glenn Research Center, USA

- ❖ Provides a useful resource for understanding the most valuable aspects of advanced processing and manufacturing technologies for structural and multifunctional materials
- ❖ Logically organized and carefully selected articles give insight into advanced processing and manufacturing technologies for structural and multifunctional materials

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Advances in Bioceramics and Porous Ceramics IV

Ceramic Engineering and Science Proceedings Volume 32, Issue 6

ROGER NARAYAN & PAOLO COLOMBO

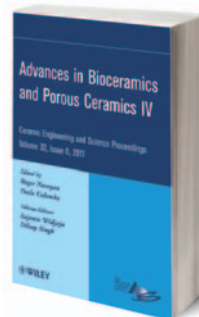
Department of Applied Chemistry and Materials Science, University of Bologna, Italy

- ❖ Provides a useful resource for understanding the most valuable aspects of advances in bioceramics and porous ceramics
- ❖ Logically organized and carefully selected articles give insight into advances in bioceramics and porous ceramics

READERSHIP: Professional researchers in industry or government labs, academics in ceramic and glass science and engineering; associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM International, MRS); academic and industrial engineering libraries

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Advances in Ceramic Armor VII

Ceramic Engineering and Science Proceedings Volume 32, Issue 5

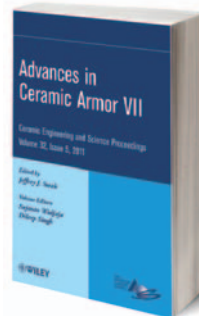
JEFFREY J. SWAB

- ❖ Provides a useful resource for understanding the most valuable aspects of advances in ceramic armor
- ❖ Logically organized and carefully selected articles give insight into advances in ceramic armor

READERSHIP: Professional researchers in industry or government labs, academics in ceramic and glass science and engineering; associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM International, MRS); academic and industrial engineering libraries

SERIES: CERAMIC ENGINEERING AND SCIENCE PROCEEDINGS

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Advances in Solid Oxide Fuel Cells VII

Ceramic Engineering and Science Proceedings Volume 32, Issue 4

NAROTTAM P. BANSAL & PRABHAKAR SINGH

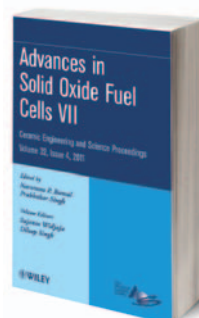
NASA, Glenn Research Center, USA

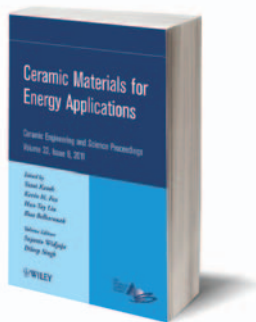
- ❖ Provides a useful resource for understanding the most valuable aspects of the advances in solid oxide fuel cells
- ❖ Logically organized and carefully selected articles give insight into the advances in solid oxide fuel cells

READERSHIP: Professional researchers in industry or government labs, academics in ceramic and glass science and engineering; associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM International, MRS); academic and industrial engineering libraries

SERIES: CERAMIC ENGINEERING AND SCIENCE PROCEEDINGS

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Ceramic Materials for Energy Applications

Ceramic Engineering and Science Proceedings Volume 32, Issue 9

HUA-TAY LIN, YUTAI KATOH, KEVIN FOX & ILIAS BELHAROUAK

Oak Ridge National Laboratory, USA

- ❖ Provides a useful resource for understanding the most valuable aspects of ceramic materials for energy applications
- ❖ Logically organized and carefully selected articles give insight into ceramic materials for energy applications

READERSHIP: Professional researchers in industry or government labs, academics in ceramic and glass science and engineering; associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM International, MRS); academic and industrial engineering libraries

SERIES: CERAMIC ENGINEERING AND SCIENCE PROCEEDINGS

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Developments in Strategic Materials and Computational Design II

Ceramic Engineering and Science Proceedings Volume 32, Issue 10

ANDREW GYEKENYESI, WALTRAUD M. KRIVEN, JINGYANG WANG & MRITYUNJAY SINGH

University of Illinois at Urbana-Champaign, USA; NASA Glenn Research Center, USA

- ❖ Provides a useful resource for understanding the most valuable aspects of developments in strategic materials and computational design
- ❖ Logically organized and carefully selected articles give insight into developments in strategic materials and computational design

READERSHIP: Professional researchers in industry or government labs, academics in ceramic and glass science and engineering; associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM International, MRS); academic and industrial engineering libraries

SERIES: CERAMIC ENGINEERING AND SCIENCE PROCEEDINGS

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Proceedings of the 34th International Conference on Advanced Ceramics and Composites

ACERS

- ❖ Provides a useful one-stop resource for understanding the most important issues pertaining to the processing, properties, and behavior of structural and multifunctional ceramics and composites, emerging ceramic technologies and applications of engineering ceramics

READERSHIP: Grad students and professional researchers in mechanical and chemical engineering, materials and/or ceramics, and chemistry departments, associations with related topical divisions or training courses (ASME, IEEE, SAE, AIChE, TMS, ASM, MRS, IMAPS), U.S. and International Laboratories involved with ceramic or materials research, chemical, materials, and engineering libraries

NOV 2011 978-0-470-93495-1 SOFEWARE* €379.00



Advanced Silicon Materials for Photovoltaic Applications

S. PIZZINI

- ❖ Covers the main issues concerning silicon for PV applications
- ❖ Deals with the fabrication processes of bulk and thin films silicon
- ❖ Addresses quality problems for low-cost feedstocks
- ❖ Discusses advanced chemical, structural, and electrical characterization techniques and computer modeling

READERSHIP: Primary market will be academic researchers, industrial researchers and engineers in the field of photovoltaic devices including universities and laboratories such as Fraunhofer Institutes in Germany or NREL and Sandia in the US; secondary market will be PhD students

MAY 2012 320PP 978-0-470-66111-6 CL €119.00

Lead-free Solders

Materials Reliability for Electronics

K. SUBRAMANIAN

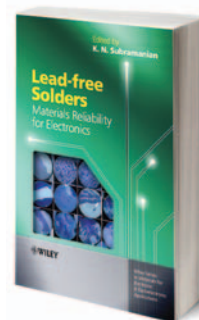
Michigan State University, USA

- ❖ Provides a comprehensive review of the current state of knowledge for implementing lead-free electronics required under recent legislation
- ❖ A major resource for persons involved in material design for microelectronics development and manufacturing Implementation of lead-free solders has taken place to comply with various green legislations and to avoid unnecessary penalties
- ❖ Includes articles on alloy development, electromigration and long-term reliability
- ❖ Contains contributions from academic, industrial and national laboratory researchers

READERSHIP: Researchers in materials science and electronic/electrical engineering in both academia and industry, as well as graduate students in this field, physicists and chemists involved in lead-free electronics

SERIES: WILEY SERIES IN MATERIALS FOR ELECTRONIC & OPTOELECTRONIC APPLICATIONS

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Transparent Electronics

From Materials to Devices

RODRIGO MARTINS, ELVIRA FORTUNATO, PEDRO BARQUINHA & LUIS PEREIRA

CENIMAT, UNL; CENIMAT, UNL; CENIMAT, UNL; Uninova, CEMOP

- ❖ Introduces novel concepts such as discrete dielectrics, interstate devices such as the paper and memory transistors; the electrochromic transistor, current driven, in opposition to conventional voltage driven TFT; novel concept of bio-ISFET
- ❖ Introduces the role of multicomponent indium free amorphous oxides as active semiconductors with full electronic semiconductor behavior at low substrate temperatures as an alternative to silicon and emerging organic semiconductors
- ❖ Additionally, the book covers the p-type oxides as active components on electronic and optoelectronic devices, such as TFT and solar cells, key industrial applications of these new and exciting materials

READERSHIP: Industrial and academic research scientists in materials science, chemistry, physics, and engineering as well as graduate students and postdocs, those involved in research in the fields of flexible electronics, photonics, macroelectronics, large-area electronics, disposal electronics, wearable electronics, low-cost electronics and transparent electronics

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Integrative Computational Materials Engineering

Concepts and Applications of a Modular Simulation Platform

GEORG J. SCHMITZ & ULRICH PRAHL

Access Technology, Aachen, Germany; RWTH Aachen, Germany

- ❖ Presents the results of an ambitious project: computer simulations from micro to macro, from raw material to product - all on an open, non-proprietary web platform
- ❖ A truly integrated book on integrative computational materials engineering (ICME): fundamental concepts, model development, standard specifications, case studies
- ❖ Of direct value to automotive and construction engineering: simulation test cases on gearing components and steel bearings (and more) illustrate the power of ICME
- ❖ Helps to increase competitiveness: a streamlined simulation platform reduces planning efforts and expenses for design of materials and their production processes

READERSHIP: Materials scientists, applied physicists, mechanical engineers, metallurgists, automobile industry, metal processing industry, libraries. A resource for researchers, users and simulation software providers alike.

APR 2012 375PP 978-3-527-33081-2 CL €129.00



Surface Science

Foundations of Catalysis and Nanoscience 3rd Edition

KURT K. KOLASINSKI

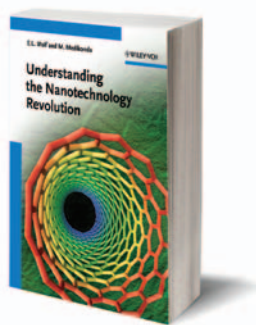
West Chester University, USA

- ❖ A completely revised and expanded edition featuring detailed explanations to important concepts
- ❖ Key to this new edition are new pages of extensive worked solutions and new topics including second harmonic generation (SHG) / sum frequency generation (SFG) at interfaces, and an expanded treatment (1-2) of micelles and bilayers
- ❖ Relevant to Instructors and Students in surface science and related areas as well as being appropriate for any course on surface science in chemistry and materials science
- ❖ Fills a gap in the market for a problem-based text book for chemists and physicists interested in surface, catalysis and nanoscience

READERSHIP: Undergraduates and beginning graduate students, as well as scientists entering the fields of surface science, catalysis and nanoscience from other disciplines; researchers in the fields of surface science, catalysis and nanoscience

MAY 2012 600PP 978-1-1199-9036-9 CL €155.00





Understanding the Nanotechnology Revolution

EDWARD L. WOLF & MANASA MEDIKONDA

New York University, Brooklyn, USA; New York University, Brooklyn, USA

- ❖ The subject is put into a historical context and brings the reader right up to date
- ❖ A wide spectrum of the issues is covered, ranging from biology to quantum computing. The general span is effective and makes easy and interesting reading
- ❖ Authors lay emphasis on developing a solid background of each major theme and examples are up to date and chosen to represent important concepts and trends in their application
- ❖ The book is based on the script for an audio lecture course therefore it could be used as a textbook for a general science elective course at the undergraduate level

READERSHIP: The interested lay public, students, all (natural) scientists, engineers

MAY 2012 200PP 978-3-527-41109-2 PR €29.90



Hydrogel Micro and Nanoparticles

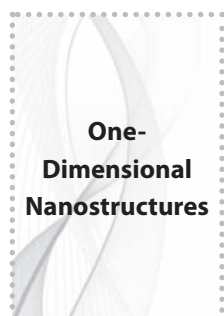
L. ANDREW LYON & MICHAEL JOSEPH SERPE

Georgia Institute of Technology, Atlanta, USA; University of Alberta, Alberta, Canada

- ❖ Shows how to obtain and apply artificially made hydrogel-based materials with properties comparable to biological tissues
- ❖ Provides a comprehensive treatment of recent research into this particular class of materials
- ❖ Includes contributions from both established, internationally renowned scientists and "rising stars" in the soft nanotechnology community reporting on their cutting-edge research results
- ❖ Covers all important aspects of synthesis, characterization and, most prominently, the applications of micro- and nanogels in biological and biomedical contexts

READERSHIP: Materials scientists, polymer chemists, medicinal chemists, biochemists, institutes, institutions, libraries

APR 2012 450PP 978-3-527-33033-1 CL €149.00



One-Dimensional Nanostructures

Principles and Applications

TIANYOU ZHAI & JIANNIAN YAO

- ❖ All chapters written by active and well-known scientists in the field of nanoscience and nanotechnology
- ❖ Discusses the most important innovation applications of nanoscale materials, and some perspectives and outlook on the future developments are covered
- ❖ Includes practical case studies on innovation applications and contains useful diagrams and tables
- ❖ Covers an array of topics including: photodetectors, gas sensors, biosensors, chemical sensors, field-emitters, lasers, lithium-ion batteries, supercapacitors, light emitting diodes (LED), photovoltaics, nanogenerators, thermoelectrics, piezoelectrics and field-effect transistors

READERSHIP: Practicing chemists, physicists, materials scientists, and engineers in industry and academia; reference for graduate students in chemistry, chemical engineering, physics and materials science

MAY 2012 500PP 978-1-1180-7191-5 CL €129.00



Fundamentals of Nanotechnology

Science and Engineering of Nanomaterials

BRIAN A. KORGEL & MIGUEL JOSÉ YACAMÁN

Both of University of Texas, Austin, USA

- ❖ Provides a rigorous and self-contained introduction to nanomaterials
- ❖ Presents a basic and interdisciplinary overview of the chemistry and structure of nanomaterials, how they are made, how their properties relate to their nanostructure, and existing and potential uses
- ❖ Gives a descriptive presentation that is accessible to senior undergraduates, beginning graduate students, and senior researchers from outside the field
- ❖ Serves as an interdisciplinary introduction to the field of nanomaterials for students and researchers in the physical sciences and engineering

READERSHIP: Senior-level undergraduate or beginning graduate course in nanomaterials, university and research libraries, professional scientists and researchers working in nanomaterial-related fields

APR 2012 720PP 978-0-470-00766-2 CL €99.90

High-k Gate Dielectrics for CMOS Technology

GANG HE & ZHAOQI SUN

Anhui University, Hefei, P.R. China; Anhui University, Hefei, P.R. China

- ❖ Presents a state-of-the-art overview of high-k dielectrics: the book summarizes the most current research results and development solutions
- ❖ Addresses fundamentals and technologies: why are high-k dielectrics advantageous and how can they be implemented into existing semiconductor manufacturing technologies
- ❖ Combines introductory parts for entrants to the field and advanced parts with directly applicable solutions for experienced researchers

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

APR 2012 450PP 978-3-527-33032-4 CL €149.00



**High-k Gate
Dielectrics
for CMOS
Technology**

Experimental Micro/Nanoscale Thermal Transport

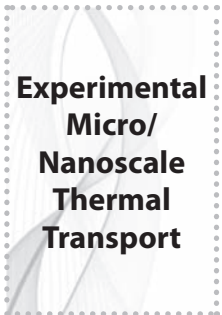
XINWEI WANG

Iowa State University, USA

- ❖ First book to focus on experimental characterization of thermal transport at micro/nanoscales
- ❖ Provides theoretical background and implementation details of the most advanced self-sensing technologies developed in the author's Micro/Nanoscale Thermal Science Laboratory at Iowa State University
- ❖ Exposes most advanced research in the area

READERSHIP: Researchers in semiconductor industries and national laboratories focusing on material design and characterization; graduate students and faculty in areas of mechanical engineering, electrical engineering, physics, materials, and chemical engineering, undergraduate students in mechanical engineering and electrical engineering

APR 2012 250PP 978-1-1180-0744-0 CL €105.00



**Experimental
Micro/
Nanoscale
Thermal
Transport**

Advanced Thermoforming

Methods, Machines and Materials, Applications and Automation

SVEN ENGELMANN

Gerhard Schubert, GmbH, Germany

- ❖ Exposes readers to machine technology that provides higher productivity, better quality, and less material cost
- ❖ Describes raw materials used in thermoforming and the connection to the production process
- ❖ Addresses the handling of semifinished products and formed parts as well as inline processes
- ❖ Includes interviews and insights from experienced industrial thermoformers from leading companies
- ❖ Discusses thermoforming innovations, from thermoformed bottles to fully automated assembly lines

READERSHIP: Polymer and plastics engineers and processors, technical engineers, R & D managers, new product development managers, automotive engineers, technicians, and equipment designers

SERIES: WILEY SERIES ON POLYMER ENGINEERING AND TECHNOLOGY

MAY 2012 320PP 978-0-470-49920-7 CL €87.90



**Advanced
Thermoforming**

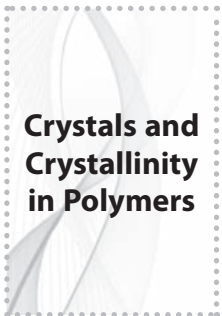
Crystals and Crystallinity in Polymers

CLAUDIO DE ROSA & INIZIA AURIEMMA

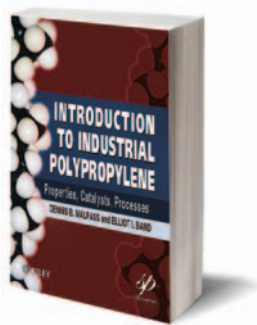
- ❖ Provides the only current reference on crystal structures for polymers
- ❖ Emphasizes the most recent developments for structure determination
- ❖ Covers and compares common techniques utilized, such as X-ray diffraction, as well as electron diffraction and transmission electron microscopy
- ❖ Provides an overview of the effect of crystallization conditions on the physical properties exhibited by polymers

READERSHIP: Researchers, engineers, and graduate students in polymers (chemistry and physics), materials science, and chemical engineering

JUN 2012 320PP 978-0-470-17576-7 CL €109.00



**Crystals and
Crystallinity
in Polymers**



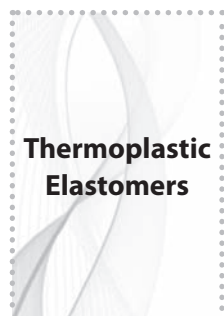
Introduction to Industrial Polypropylene

DENNIS B. MALPASS & ELLIOT BAND

- ✦ The only introductory text on the 2nd largest manufactured synthetic polymer
- ✦ Global interest from chemical companies and chemical societies and universities
- ✦ The authors are senior chemists who work or have worked at AkzoNobel
- ✦ The book sheds light on topics such as; What are the principal types of polypropylene and how do they differ? What catalysts are used to produce polypropylene and how do they function? What is the role of cocatalysts and how have they evolved over the years?

READERSHIP: Chemists and engineers in industry; Academic chemists; Graduate and advanced undergraduate students taking courses on polymer chemistry; Teachers interested in implementing a classroom and laboratory course in olefin polymerization; Marketing and sales personnel needing basic understanding of polypropylene

MAY 2012 200PP 978-1-1180-6276-0 CL €85.90



Thermoplastic Elastomers

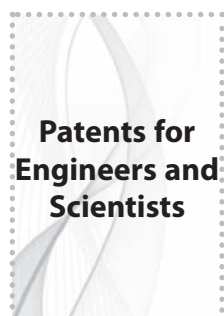
A Practical Guide in Materials, Processes, Markets, and Applications

EDWIN TAM

- ✦ Integrates an array of TPE topics – chemistry, processing, market applications – that have not previously been covered within one book
- ✦ Describes the various categories of TPEs and how to design and process them
- ✦ Explains the uses of TPEs in markets and applications like medical devices, automotive, and rubber industries
- ✦ Serves as a single reference guide for practical information on the field of TPEs, which is now lacking such a resource

READERSHIP: Professionals (esp. managers, design engineers, and chemists) involved in the development, manufacturing, processing, specifying, and application of TPE materials; plastics industry personnel – scientists, chemists, material engineers, application development engineers, design engineers, process engineers, mold makers, mechanical engineers, technical service engineers; marketing managers, market development and sales personnel, product managers

JUN 2012 752PP 978-0-470-05672-1 CL €129.00



Patents for Engineers and Scientists

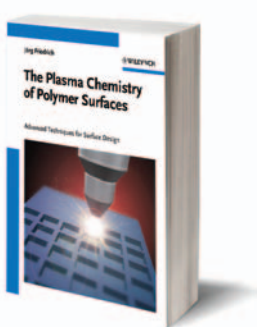
AMAD TAYEBI

University of Massachusetts Lowell, USA

- ✦ Introduces the professional to how to analyze a patent claim
- ✦ Addresses, in simple terms, the latest law cases impacting patents and the patenting process, for example Supreme Court and Federal Circuit Court of Appeals rulings regarding obviousness, injunctive relief, claim construction, inequitable conduct, etc
- ✦ Takes an approach comprising a blend of macro understanding of patents and a detailed presentation and consideration of critical business-impacting law issues
- ✦ Provides business-based questions that a professional must consider and answer before deciding whether to patent an invention

READERSHIP: Scientists: chemists, physicists, safety and health professionals engineers: plastics, civil, mechanical, textile, chemical, electrical, medical professionals and device manufacturers, product designers and manufacturers, managers and executives and legal officers in manufacturing companies

JUN 2012 304PP 978-0-470-44215-9 CL €61.90



The Plasma Chemistry of Polymer Surfaces

Advanced Techniques for Surface Design

JÖRG FRIEDRICH

Bundesanstalt für Materialforschung, Berlin, Germany

- ✦ This new title illustrates plasma properties, polymer characteristics, surface specifics, and how to purposefully combine plasma and polymer chemistry
- ✦ Covers Plasma Polymerization, Surface Functionalization, Etching, and Crosslinking, Deposition of monotype functional-group-bearing plasma polymers
- ✦ Different techniques and plasma types are explained: pressure-pulsed, remote, low-wattage plasmas as well as plasma polymerization in liquids
- ✦ Includes numerous hot applications of plasmas, e.g., for chemical synthesis, industrial processes or the modification of membranes and papers, adhesion promotion, corrosion protection and many more

READERSHIP: Materials scientists, chemists, plasmaphysicists, institutes, institutions, libraries, plastics industry, automobile industry, graduate students

APR 2012 480PP 978-3-527-31853-7 CL €139.00

Zooming in

The Cosmos at High Resolution Volume 23

REGINA VON BERLEPSCH

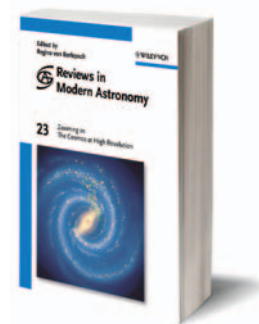
Leibniz-Institut Potsdam

- ❖ Continues the annual "Reviews in Modern Astronomy"
- ❖ Provides 14 invited review papers
- ❖ Offers a systematic overview of current research in astronomy with key utilities like ALMA, LOFAR, HERSCHEL and others

READERSHIP: Astronomers, graduate students, libraries at university institutes, libraries at universities

SERIES: REVIEWS IN MODERN ASTRONOMY

SEP 2011 276PP 978-3-527-41113-9 CL €119.00



Coronal Seismology

Waves and Oscillations in Stellar Coronae

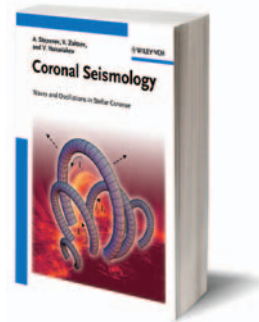
ALEXANDER STEPANOV, VALERY ZAITSEV & VALERY NAKARIAKOV

Russian Academy of Sciences, St. Petersburg, Russia; Russian Academy of Sciences, Nizhny Novgorod, Russia; University of Warwick, Coventry, UK

- ❖ Unique account of a new branch of astrophysics, Coronal Seismology
- ❖ Provides greater understanding of processes of our sun as well as distant stars and their interaction with planets
- ❖ Takes account of the full range of available observations - from radio to gamma
- ❖ Systematically presents the theoretical foundations of plasma astrophysics, magneto-hydrodynamics and coronal magnetic structures

READERSHIP: Astronomers, theoretical physicists, plasmaphysicists, libraries at university institutes, libraries at universities

APR 2012 237PP 978-3-527-40994-5 CL €109.00



Introduction to Adaptive Lenses

SHIN-TSON WU & HONGWEN REN

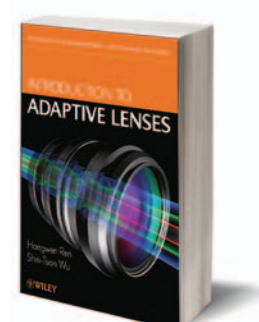
HRL Laboratories, Malibu, California

- ❖ The book is the first textbook on adaptive lenses for senior and graduate students
- ❖ Includes homework problems and solutions at the end of each chapter
- ❖ Systematically addresses the basic operation principles, device structures and performances, and potential applications of adaptive lenses

READERSHIP: Optical engineers, research scientists, technicians, graduate students, and senior undergraduates

SERIES: WILEY SERIES IN PURE AND APPLIED OPTICS

MAY 2012 300PP 978-1-1180-1899-6 CL €95.90



Computational Colour Science using MATLAB

A Practical Approach

2nd Edition

STEPHEN WESTLAND, CATERINA RIPAMONTI & VIEN CHEUNG

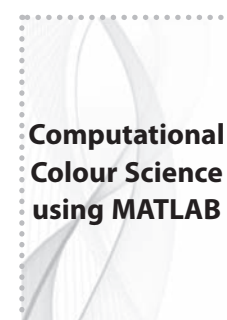
University of Leeds, UK; University College London, UK; University of Leeds, UK

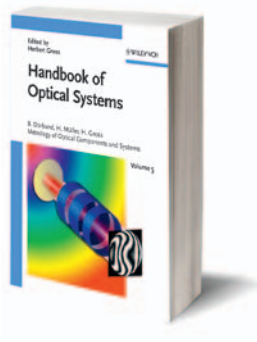
- ❖ Describes how to implement colour science in a way that most other texts barely touch upon
- ❖ Three new chapters: colour imaging, psychophysical methods, and physiological colour spaces
- ❖ Extended MATLAB toolbox with a professional (optimized) toolbox to go alongside the current teaching toolbox
- ❖ Additional java toolbox for users who are writing web applications and/or applets or mobile phone applications

READERSHIP: Students taking courses in colour science, colour chemistry and colour physics as well as technicians and researchers working in the area. In addition, it will act a useful reference for professionals and researchers working in colour-dependent industries such as textiles, paints, print & electronic imaging

SERIES: THE WILEY-IS&T SERIES IN IMAGING SCIENCE AND TECHNOLOGY

MAY 2012 376PP 978-0-470-66569-5 CL €97.90





Metrology of Optical Components and Systems

Volume 5

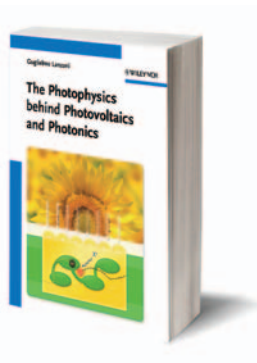
BERND DÖRBAND, HENRIETTE MÜLLER & HERBERT GROSS

Carl Zeiss AG, Oberkochen, Germany; Carl Zeiss AG, Oberkochen, Germany; Carl Zeiss AG, Oberkochen, Germany

- ❖ An intuitive, didactically elegant approach to the subject of optical systems, written by reputed industrial experts
- ❖ Provides a comprehensive introduction to the principles and the practice of calculation, layout and understanding of optical systems and lens design
- ❖ Topics covered in this volume comprise the methods of measuring the properties of optical systems - the different fundamental techniques, such as propagation measurement and polarimetry, are introduced and discussed in detail and clarity
- ❖ Includes more than 3,000 full-colored illustrations and images

READERSHIP: Optical industry, physicists in industry, universities of applied sciences, libraries, physical institutes

APR 2012 500PP 978-3-527-40381-3 CL €298.00



The Photophysics behind Photovoltaics and Photonics

GUGLIELMO LANZANI

Center for Nano Science and Technology, Italian Institute of Technology, Italy

- ❖ From a leading researcher in optical spectroscopy and electronic properties of novel semiconductors
- ❖ A fast growing field of research and applications for the development of photovoltaic materials and photonic fabrication for new generation solar cells and photonic devices
- ❖ A much needed tool-box title to understand the concepts behind the (ultra-fast) spectroscopy of advanced organic materials such as carbon nanotubes and conjugated polymers
- ❖ Each topic is completed by examples taken from forefront research on nanomaterials, photovoltaics, and photonics

READERSHIP: Photochemists, materials scientists, materials institutes, master's and Ph.D. students in material sciences, physicists, lecturers in physics, Master's students in physics, physicists in industry, physical chemists, semiconductor industry, chemists working with/on organometallics, university institutes and libraries

MAR 2012 230PP 978-3-527-41054-5 CL €69.00



Surface and Interface Science

Volume 1: Concepts and Methods / Volume 2: Properties of Elemental Surfaces

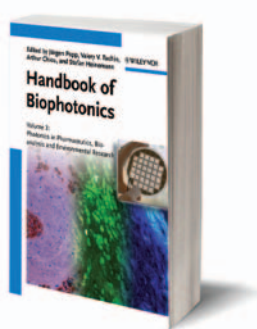
KLAUS WANDELT

University of Bonn, Germany

- ❖ Gives a broad and actual overview of surface and interface science and research for a wide readership
- ❖ Covers interface science from a surface science perspective not found in the current literature
- ❖ General chapters describe theoretical models and explain the respective phenomenon
- ❖ Covers models used to explain the phenomenon, e.g., band structure calculation, chemisorption, segregation

READERSHIP: Surface chemists, surface physicists, solid state physicists, solid state chemists, physicochemists, materials scientists, vacuumphysicists, libraries at universities, libraries at university institutes

MAR 2012 564PP 978-3-527-40488-9 CL €169.00INTRODUCTORY PRICE £170.00 €299.00, VALID UNTIL JUNE 2012



Handbook of Biophotonics

Vol. 3: Photonics in Pharmaceuticals, Bioanalysis and Environmental Research

JÜRGEN POPP, VALERY V. TUCHIN, ARTHUR CHIOU & STEFAN H. HEINEMANN

Friedrich Schiller University of Jena, Germany; Saratov State University, Saratov, Russia; National Yang Ming University, Taipei, Taiwan; Friedrich-Schiller-Universität Jena, Ge

- ❖ Focus on Photonics in Pharmaceuticals, Bioanalysis and Environmental Research
- ❖ Review style contributions guide the reader from basics to latest research trends
- ❖ Full colour throughout

READERSHIP: Lecturers in biochemistry, lecturers in medicine, lecturers in physics, spectroscopists, cell biologists, clinical physicists, allergologists, food industry, patent departments in industry

APR 2012 332PP 978-3-527-41049-1 CL €155.00

Handbook of Biophotonics

3 Volume Set

JÜRGEN POPP, VALERY V. TUCHIN, ERIC MAZUR, ARTHUR CHIOU & STEFAN H. HEINEMANN

Friedrich Schiller University of Jena, Germany; Saratov State University, Saratov, Russia; Harvard University, Cambridge, USA; National Yang Ming University, Taipei, Taiwan; Friedrich-Schiller-Universität Jena, Germany

- ❖ Three volume set, the first on biophotonics with physics basics as well as biological and medical background
- ❖ Covers latest applications in life science, quality control and defense
- ❖ Review style contributions guide the reader from basics to latest research trends
- ❖ Full colour throughout the three volumes

READERSHIP: Lecturers in biochemistry, lecturers in medicine, lecturers in physics, spectroscopists, cell biologists, clinical physicists, allergologists, food industry, patent departments in industry

APR 2012 2350PP 978-3-527-40728-6 CL €699.00

Handbook of Biophotonics

Statistical Methods in Radiation Physics

JAMES E. TURNER, DARRYL J. DOWNING & JAMES S. BOGARD

GlaxoSmithKline, Collegeville, USA; Oak Ridge National Laboratory, USA

- ❖ Fills a notable gap in the field of radiological, medical, and health physics
- ❖ Statistical concepts and tools for health physics presented in one single book for the first time
- ❖ Presents and explains broadly applicable statistical methods and their use in outcome and decision making

READERSHIP: Students in physics, lecturers in physics, biophysicists, physicists in industry, nuclear physicists, radiation physicists, clinical physicists, libraries at university institutes, libraries at universities

JUN 2012 340PP 978-3-527-41107-8 PR €79.00

Statistical Methods in Radiation Physics

Organic Polymer Aerogels and Composites

NICHOLAS LEVENTIS

Missouri University of Science and Technology, USA

- ❖ Provides an overview of aerogels and their commercial potential from the improved mechanical properties brought about by organic material
- ❖ Provides a practical, how-to guide and approaches to aerogel formation to aid the evolution of new technologies and applications
- ❖ Includes experimental procedures with synthetic protocols in every chapter, along with a dedicated chapter on characterization methods
- ❖ Includes comprehensive characterization data for every class of organic polymer aerogel compounds

READERSHIP: Polymer scientists, materials scientists, physicists; organic chemists, chemical engineers; researchers and technologists in energy, membranes, molecular separations. Industry, academic, governmental research labs

JUN 2012 320PP 978-0-470-55202-5 CL €109.00

Organic Polymer Aerogels and Composites

Battery Systems Engineering

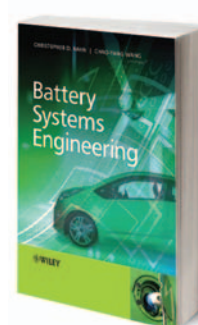
CHRISTOPHER D. RAHN & CHAO-YANG WANG

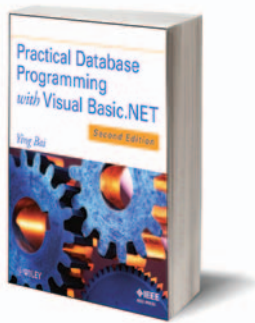
Both of The Pennsylvania State University, USA

- ❖ Approaches a topic which has experienced phenomenal growth in recent years
- ❖ Topics covered include: Electrochemistry; Governing Equations; Discretization Methods; System Response and Battery Management Systems
- ❖ Include tables, illustrations, photographs, graphs, worked examples, homework problems, and references, to thoroughly illustrate key material
- ❖ Ideal for engineers working in the mechanical, electrical, and chemical fields as well as graduate students in these areas

READERSHIP: Scientists and Engineers working in the battery or electric vehicle industries; graduate students in mechanical engineering, electrical engineering, chemical engineering; advanced undergraduate students in engineering and engineering managers

JUN 2012 288PP 978-1-1199-7950-0 CL €99.90





Practical Database Programming with Visual Basic.NET

2nd Edition

YING BAI

Johnson C. Smith University, USA

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- ❖ Covers both fundamentals and advanced database programming techniques and practical examples and detailed descriptions are provided
- ❖ Three popular database systems are introduced with practical examples including MS Access, SQL Server 2008 and Oracle
- ❖ Separate Instructor's manual (MS Power point format) available and downloadable programming codes and exercise questions for students

READERSHIP: Professional computer database programmers; university students majoring in computer science and engineering; software engineers and researchers

JUN 2012 1120PP 978-1-1181-6205-7 PR €69.90

Slide Rules

Design, Build, and Archive Presentations in Engineering and Technical Fields

TRACI NATHANS-KELLY & CHRISTINE G. NICOMETO

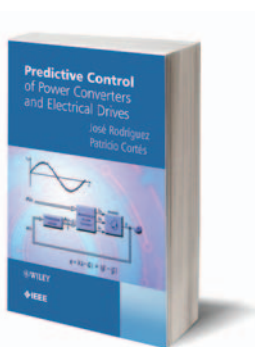
Both of University of Wisconsin-Madison College of Engineering, USA

- ❖ Full color book with ample color slides/images
- ❖ Useful for engineers in charge of technology transfer / government grant presentation
- ❖ Testimonials from the industry leaders who benefited from taking courses by the authors are included
- ❖ Teaches archival technique using slideware

READERSHIP: Practicing engineers, practicing technical experts, engineering management, military engineering / technical experts, engineering students, engineering faculty, training professionals

SERIES: IEEE PCS PROFESSIONAL ENGINEERING COMMUNICATION SERIES

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- ❖ Matlab is included on a complementary website so the reader can run their own simulations

READERSHIP: Electrical and electronics engineers, control engineers, R&D engineers, product development engineers working in power electronics and drives, power electronics specialists (both academic and industrial), industry engineers of power conversions and motor drives, scientists; university researchers and libraries, graduate students, senior-level undergraduate students of electrical and electronics engineering, academic control specialists, academics in electrical drives

APR 2012 256PP 978-1-1199-6398-1 CL €95.90



Microsystems

The Physics of Interface and Droplets

JEAN BERTHIER & KEN BRAKKE

CEA/LETI and University of Grenoble, France; Susquehanna University in Pennsylvania, USA

- ❖ The book brings a unique approach to understand, calculate and predict the behaviour of droplets and interfaces in modern microsystems
- ❖ The authors have extensively used the advanced numerical software Surface Evolver to solve complex problems in droplet and interface microfluidics. The software with Evolver files are freely available on the publisher's web site so readers can make their own calculations
- ❖ Jean Berthier is one of the world's leading researchers in microdroplets

READERSHIP: The core market is biotechnology/biology/bioengineering/materials science (for which a lot of things are now done "with droplets" for precise self-alignment). The secondary market would be 3D microelectronics, biochemists, optofluidics (physics), and mechatronics

MAR 2012 300PP 978-0-470-93880-5 CL €129.00

Techniques for Noise Robustness in Automatic Speech Recognition

TUOMAS VIRTANEN, RITA SINGH & BHIKSHA RAJ

Tampere University of Technology; Carnegie Mellon University; Carnegie Mellon University

- ❖ Considers the major causes of degradation in Automatic Speech Recognition (ASR) and methods for increasing ASR system robustness
- ❖ Addresses robustness issues and signal degradation – both key requirements of practitioners in ASR
- ❖ Fills a gap in the current literature as no other up to date competition exists currently
- ❖ Companion website hosting colour version of images from the book

READERSHIP: Researchers in ASR, engineers and developers of ASR applications; graduate students in computer science and electrical engineering

JUN 2012 448PP 978-1-1199-7088-0 CL €105.00

**Techniques
for Noise
Robustness
in Automatic
Speech
Recognition**

Computational Number Theory and Modern Cryptography

SONG Y. YAN

Massachusetts Institute of Technology, USA

- ❖ Makes deep mathematical problems accessible to computer scientists and engineers
- ❖ Based on classroom tested materials used in the US, UK and China
- ❖ Exercises included in every chapter
- ❖ Instructor resources available on the book's Companion Website

READERSHIP: Graduate and advanced undergraduate students in computer science, communications engineering, cryptography and mathematics; computer scientists, practicing cryptographers and other professionals involved in various security schemes

JUN 2012 416PP 978-1-1181-8858-3 CL TBA

**Computational
Number
Theory and
Modern
Cryptography**

Mastering System Identification in 100 Exercises

JOHAN SCHOUKENS, RIK PINTELON & YVES ROLAIN

Department of Electrical Engineering, Vrije Universiteit Brussel, Belgium; Department of Electrical Engineering, Vrije Universiteit Brussel, Belgium

- ❖ Learn-by-doing, exercise-driven approach
- ❖ State-of-the-art system identification methods; both time and frequency domain system identification methods are covered including the pros and cons of each
- ❖ Simple writing style with many examples and figures
- ❖ Author programmed MATLAB files are available for download for each exercise with detailed solution

READERSHIP: Practicing engineers, scientists, researchers, master and PhD students in electrical, mechanical, civil and chemical engineering who are responsible for predicting error occurrences of the systems and modeling error free linear system design

MAR 2012 288PP 978-0-470-93698-6 PR €53.90



High Performance Control of AC Drives with Matlab / Simulink Models

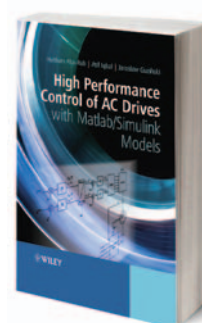
HAITHAM ABU-RUB, ATIF IQBAL, J. GUZINSKI & TRUC PHAMDINH

Texas A&M University at Qatar; Aligarh Muslim University; Gdansk University of Technology; Ho Chi Minh University of Technology

- ❖ Integrates a diverse range of topics into one volume, including all the latest developments and unique author research
- ❖ Covers advanced concepts of AC motor drives systematically for thorough understanding and discusses the modelling, analysis and control of multi-phase induction motor drives
- ❖ Model predictive control applied to power converters and AC drives are illustrated together with their simulation models
- ❖ Matlab/Simulink diagrams enable the reader to run the simulations

READERSHIP: An advanced textbook for graduate, post-graduate and PhD students in electric drives/motor control; final year undergraduate students, researchers, specialists and practicing engineers

MAY 2012 512PP 978-0-470-97829-0 CL €83.90



Automating with SIMATIC S7-300 inside TIA Portal

Automating with SIMATIC S7-300 inside TIA Portal

STEP 7 Professional V11 Engineering Software

HANS BERGER

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- ✦ The SIMATIC S7-300 automation system will be used in thousands of applications all over the world
- ✦ The new TIA Portal is by far the most intuitive, efficient, and proven engineering framework

READERSHIP: Industry, engineers, engineering consultants, automation industry, lecturers in measurement and control engineering, polytechnics for automation, process engineers, automation engineers, engineers for measurement and control, robotics engineers

APR 2012 768PP 978-3-895-78382-1 CL €69.90

Semiconductor Laser Engineering, Reliability and Diagnostics - A Practical Approach to High Power and Single Mode Devices

Semiconductor Laser Engineering, Reliability and Diagnostics - A Practical Approach to High Power and Single Mode Devices

PETER W. EPPERLEIN

Pwe-PhotonicsElectronics-IssueResolution

- ✦ Provides a comprehensive account of engineering and implementing high-power single transverse mode lasers with a focus on practical guidelines for the use in an industrial environment
- ✦ Addresses a gap in the current literature between fundamentals and devices
- ✦ Introduces the basic concepts and techniques of laser reliability engineering
- ✦ Explains the details of how to set up and operate a typical diode laser reliability test program used in industry for product qualification

READERSHIP: Professionals engaged in diode laser product developments (electrical engineers, device reliability engineers material science engineers, research scientists). Communications engineers; academics and postdoctoral fellows/research contract staff; postgraduate students

JUN 2012 390PP 978-1-1199-9033-8 CL €105.00

Advances in Emotion Recognition

Advances in Emotion Recognition

AMIT KONAR & ARUNA CHAKRABORTY

Jadavpur University, India; St. Thomas' College of Engineering and Technology, India

- ✦ Written by some of the leading experts in the area
- ✦ Timely, in that the importance of emotion recognition has been given priority by industries including Hewlett Packard in the next generation human-computer interface (HCI)
- ✦ Topics covered include: neuro-fuzzy techniques, support vector machine (SVM), reinforcement learning, principal component analysis, hidden Markov model and probabilistic models

READERSHIP: Computer scientists/electrical engineers, PhD/MS research students of Computer/Information Sciences and Electrical Engineering

JUN 2012 600PP 978-1-1181-3066-7 CL €119.00

Robotic Systems

Robotic Systems

From Modelling to Construction

EUAN MCGOOKIN, KEVIN WORRALL & CHRIS WATTS

All at University of Glasgow, UK

- ✦ A concise guide to robotic engineering - covers all aspects needed to design and construct robotic systems
- ✦ Features worked examples, theory-based exercises, and design projects
- ✦ Keeps a good balance between the theoretical, experimental, and practical aspects of the subject
- ✦ Accompanying CD holding software needed for theoretical development (Matlab code) and design projects and suggestion forum to be found on book's website

READERSHIP: Robotics engineers, automation engineers, electrical engineers, industry, automation industry, physicists, apparatus construction engineers, lecturers in electrical engineering

MAY 2012 700PP 978-3-527-40809-2 CL €159.00

Robust Control of Nonlinear Uncertain Systems

2nd Edition

ZHIHUA QU

- ✦ This completely revised updated second edition contains two completely new chapters, corresponding to around 30% more content, so as to keep pace with advances in Internet and wireless communication technologies
- ✦ Must-have work covering the latest results on controlling the uncertainties of complex systems, as well as the theory behind real-world systems applicable to autonomous vehicles as well as biological and bio-mimic systems
- ✦ Extensive appendixes coupled with problems and examples make this monograph equally useable as supplementary course reading or for self study

READERSHIP: Graduate Students, aircraft and space industry, automobile industry, engineers for motors and drives, electrical engineers, robotics engineers, aerospace physicians, aerospace engineers, robotics engineers, computer specialists, company libraries, libraries at universities, libraries at university institutes

MAY 2012 570PP 978-3-527-40843-6 CL €119.00

**Robust
Control of
Nonlinear
Uncertain
Systems**

Reactive Power Compensation

A Practical Guide

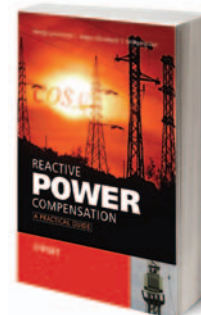
WOLFGANG HOFMANN, CONSULTING ENGINEER; JÜRGEN SCHLABBACH & WOLFGANG JUST

Munich, Germany; Bielefeld College of Further Education

- ✦ Presents a concise overview as well as deep specific knowledge on the Segment Power Factor Regulation and Network Quality
- ✦ The theory of reactive power compensation is coupled with typical application examples such as car manufacturing, metal rolling and chemical works
- ✦ Currently no other dedicated resource on reactive power compensation
- ✦ Covers the economical aspects of this technology, including the efficient use of energy and the reduction of CO₂

READERSHIP: Electrical engineers and technicians in utilities, industry and planning agencies, maintenance engineers, designers, electrical contractors, manufacturing companies, researchers; senior undergraduate and graduate electrical engineering students, professors

MAR 2012 304PP 978-0-470-97718-7 CL €65.90



Grid Integration of Wind Energy

3rd Edition

SIEGFRIED HEIER

Kassel University, Germany

- ✦ This popular reference book has been updated to include new material from the fourth and fifth German editions, equating to 12.5% brand new material
- ✦ New material covers the 'hot topic' of grid connection for offshore wind farms and offshore technologies, including lots of illustrations and brand new material on low voltage fault dynamics and control of turbines
- ✦ Includes up-to-date coverage on completely new generator developments for wind turbines, developed over the past two years
- ✦ Illustrates how wind turbines can operate like conventional power plants using advanced control systems.

READERSHIP: Practicing power systems engineers and researchers involved in the planning, installation and grid integration of wind turbines and power plants; regulators; utility executives. University professors; post-graduate students taking wind power technology courses; advanced under-graduate students taking renewable energy and power systems courses; researchers; practitioners in wind engineering, turbine design and manufacture and electrical power engineering; power companies

MAY 2012 480PP 978-1-1199-6294-6 CL €99.90

**Grid
Integration
of Wind
Energy**

Fuel Cells

Problems and Solutions

2nd Edition

VLADIMIR S. BAGOTSKY

Russian Academy of Sciences, retired

- ✦ Includes updated chapters to reflect current knowledge for each topic presented in the first edition
- ✦ New chapters on structural and wetting properties of porous fuel cell components and fuel cells with mixed reactant supply
- ✦ Provides a full yet concise description of all important aspects of fuel cells
- ✦ Covers the scientific and engineering problems associated with fuel cells as well as their applications

READERSHIP: Environmental engineers and chemists, energy industry members, electrochemists, companies involved in fuel cell research and development; serve as a textbook in advanced undergraduate and graduate courses in fuel cells in the disciplines of chemical, mechanical, and electrical engineering, as well as a reference for the professional engineer or researchers in the field

SERIES: THE ECS SERIES OF TEXTS AND MONOGRAPHS

MAY 2012 352PP 978-1-1180-8756-5 CL €87.90

Fuel Cells

Advanced Topics and Applications in Integrated Tracking, Classification, and Sensor Management

Advanced Topics and Applications in Integrated Tracking, Classification, and Sensor Management

MAHENDRA MALLICK, VIKRAM KRISHNAMURTHY & BA-NGU VO

Georgia Tech Research Institute, USA; University of British Columbia, Canada; University of Melbourne, Australia

- ❖ Covers four hot topics: Bayesian filtering, multi-target tracking, sensor management and classification
- ❖ Includes a chapter that describes state-of-the-art algorithm for hybrid Bayesian Network (BN) inference that does not exist in any other book
- ❖ Presents state-of-the-art structural results in stochastic sensor scheduling and efficient algorithms for dynamic sensor scheduling and management
- ❖ Describes a state-of-the-art algorithm for hybrid Bayesian network (BN) inference that does not exist in any other book at present

READERSHIP: Research engineers, scientists, professors, and advanced graduate students

JUN 2012 700PP 978-0-470-63905-4 CL €125.00

Computer Architecture and Security

Computer Architecture and Security

Designing Secure Computer Systems

SHUANGBAO WANG & ROBERT S. LEDLEY

- ❖ Provides an examination of memory, CPU architecture and system implementation
- ❖ Informative discussion of computer buses and a dual-port bus interface
- ❖ Examples cover a broad spectrum of hardware and software systems
- ❖ Contains design and implementation of a patent-pending secure computer system and includes the latest patent-pending technologies in architecture security

READERSHIP: Graduate students in computer architecture, computer communications, and information security; secondary market: Engineers, researchers and other computer science and security professionals, middleware designers

MAY 2012 416PP 978-1-1181-6881-3 CL TBA

Cost-effective Software Testing

Cost-effective Software Testing

NICOLE SMITH

- ❖ Includes a glossary of software testing terms
- ❖ Provides practical applications throughout the SDLC
- ❖ Supported by quizzes, problems, projects, and suggested approaches in each chapter

READERSHIP: For individuals who want to learn how to test software, software testing analysts, information technology resource professionals, software team project members, and executives faced with unanticipated software support cost explosions

SERIES: QUANTITATIVE SOFTWARE ENGINEERING SERIES

JUN 2012 350PP 978-1-1180-2150-7 CL €81.90



3D Displays

ERNST LUEDER

University of Stuttgart, Germany

- ❖ Introduces the reader, from first principles to an explanation of the concepts behind 3D displays, to enable the application of these concepts to the practical implementation of different types of 3D displays
- ❖ Field of 3D displays is moving quickly, and is attracting increasing interest from industry and academia
- ❖ Covers the key 3D display technologies, including those that have already been commercialized, as well as some promising technologies likely to see application in the future
- ❖ Includes all display devices such as liquid crystal displays (LCDs), organic light-emitting diode displays (OLED), plasma display panels (PDPs) and cathode-ray tubes (CRTs)

READERSHIP: Display engineers; electronics and integration engineers; technical managers, sales and marketing sectors involved in display technologies; academics; students of electrical engineering as well as related topics such as physics; entertainment industry such as filming and photography people that are interested in the end results; chemists and computer scientists

SERIES: WILEY SERIES IN DISPLAY TECHNOLOGY

JAN 2012 280PP 978-1-1199-9151-9 CL €91.90

Electric Power Systems

5th Edition

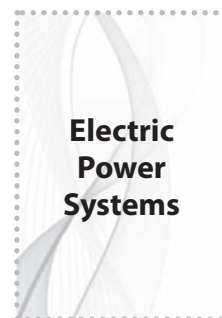
BRIAN WEEDY, NICK JENKINS, GORDON STRBAC & UMIST

UMIST, Manchester, UK

- ❖ A new edition of a well established and widely used textbook, featuring broad, comprehensive coverage of power system analysis and power system technologies
- ❖ Supplies an updated chapter on power system economics and management issues and extended coverage of power system components
- ❖ Updated to take into account the challenges posed by different world markets, and pays greater attention to up-to-date renewable power generation methods such as wind power
- ❖ Includes modernized presentation and greater use of examples to appeal to today's students, also retains the end of chapter questions to assist with the learning process

READERSHIP: Third of fourth year undergraduate students on power systems or related courses, also postgraduates; practitioners in the power industry involved with power systems who are in need of a reference

JUN 2012 544PP 978-0-470-68268-5 CL €57.90



Signal Processing and Integrated Circuits

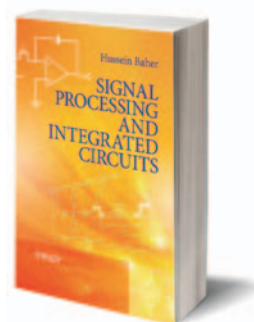
HUSSEIN BAHER

Dublin Institute of Technology, Ireland

- ❖ Takes a computational approach, using examples and MATLAB throughout, to help readers understand the mathematical complexities of signal processing
- ❖ Recognizes the importance of understanding the early analog signals and techniques in the study of modern digital signal processing
- ❖ Contains 4 new chapters focused around applications, showing the importance of signal processing techniques for industry, including semiconductor, telecom, and audio/video
- ❖ Companion website containing key diagrams and equations for use by course instructors

READERSHIP: Graduate students on digital signal processing courses, and practicing engineers involved with digital signal processing applications

JUN 2012 416PP 978-0-470-71026-5 CL €71.90



Adaptive Processing of Brain Signals

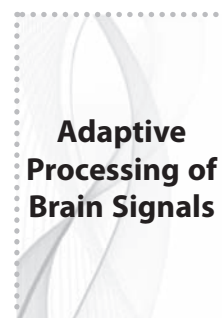
SAEID SANEI

University of Surrey, UK

- ❖ Brings together the author's original research with information that is currently only available in disparate publications, making this the first comprehensive text on the subject
- ❖ Covers the fundamentals of brain signal processing, before developing the subject at advanced level
- ❖ Looks at the broad concept of neuro-imaging as opposed to focusing on one specific area, such as EEG
- ❖ Explores multimodal and multisensory processing of brain signals, the new focus of research for this topic
- ❖ Companion website includes sample data, MATLAB codes and C routines for processing and analyzing data

READERSHIP: Students and researchers in biomedical signal processing and bioengineering, including those specializing in brain signal analysis, brain-computing interfacing, EEG, fMRI, MEG, modeling, psychology, and rehabilitation, students and researchers in signal processing and medical physics; clinicians including neuroscientists, neurophysiologists, biologists, psychologists

MAY 2012 416PP 978-0-470-68613-3 CL €105.00



IPv6 Multicasting for Linear and Non-Linear Video Applications

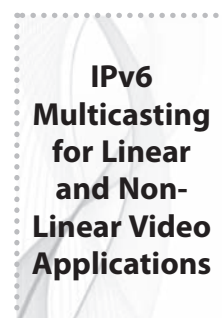
DANIEL MINOLI

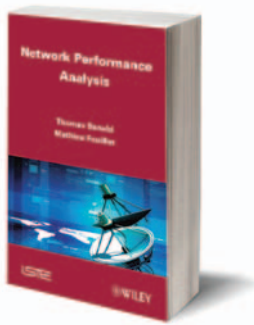
Stevens Institute of Technology, AT&T, Red Bank, NJ

- ❖ Discusses evolving video consumption habits and possible network implications
- ❖ Provides an overview of IPv6 and IPTV
- ❖ Describes the processes of IP multicast and IPv6 multicast approaches and challenges
- ❖ Explores non-traditional video content sources and the implications of these

READERSHIP: Planners, CTOs, and engineers at broadcast TV operations, cable TV operations, satellite operations, internet and ISP providers, telcos, and wireless providers; set top box developers, storage vendors, content developers, content distribution outfits, and content aggregators

APR 2012 220PP 978-1-1181-8658-9 CL €65.90





Network Performance Analysis

T. BONALD & M. FEUILLET

- ❖ Presents key mathematical tools for the performance analysis of communication networks and computer systems
- ❖ Introduces the main results of queuing theory that are useful for analyzing the performance of these systems and key to the development of robust dimensioning rules and engineering methods
- ❖ Provides a number of examples illustrating their practical interest

READERSHIP: Researchers, industrial engineers, and graduate students studying stochastic modelling

SEP 2011 TBA 978-1-8482-1312-8 CL €109.00



Making Telecoms Work

From Technical Innovation to Commercial Success

GEOFF VARRALL

- ❖ Bridges technology and business through a practical and detailed study of the industry
- ❖ Written by a renowned telecoms business expert, the book builds upon years of research and practical experience
- ❖ Provides a framework for commercial vision which is thoroughly grounded in engineering reality, ideal for decision makers in the telecoms industry
- ❖ Looks at real-world business success stories such as Apple, as well as the impact of the decisions of national government and environmental disasters

READERSHIP: Decision making professionals in the ICT, connected computing and telecoms industry, and the finance sector dealing with telecoms. Telecommunication policy makers, chief financial officers, market and business planning strategists, venture capitalists, patent attorneys, engineering department libraries, professors, lecturers, researchers, graduate students in engineering management or engineering students wanting to interact better with business types, and business students wanting to interact better with engineering types

FEB 2012 456PP 978-1-1199-7641-7 CL €73.90



High-Resolution Short-Range Sensing

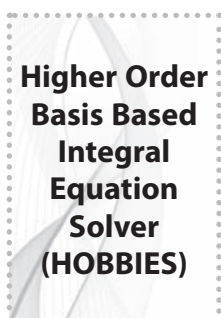
Basics, Principles and Applications of Ultra Wideband Sensors

JÜRGEN SACHS & RESEARCH STAFF

- ❖ Covers the theoretical basis of Ultra Wide Band sensors, implementations issues, and applications
- ❖ Bridges the knowledge and communication gap between UWB sensor designers and appliers working in radar communications systems, civil engineering, bio-technology, medical engineering, robotic, mechanical engineering, safety and homeland and security
- ❖ Describes this pervasive technology used to gather data from complex scenarios such as nature, industrial facilities, public or private environments, for medical applications, non-destructive testing, security and surveillance, rescue operations and much more

READERSHIP: Health officers, sensor industry, information scientists, engineering scientists in industry, civil engineers, military authorities, telecommunications engineers, company libraries, robotics engineers, biotechnologists, sensor developers, bioengineers, geodesists, engineering students, telephone technicians

JUN 2012 350PP 978-3-527-40853-5 CL €89.00



Higher Order Basis Based Integral Equation Solver (HOBBIES)

T. K. SARKAR

- ❖ Provides parallel programming techniques that make MoM (Method of Moments) a useful software and more accessible to antenna and microwave designers who need a fast simulation tool
- ❖ Offers a thorough discussion of theory, software applications, and useful design examples
- ❖ Software included with purchase of book

READERSHIP: Postgraduate students majoring in electromagnetics. Will serve as a good reference for antenna and microwave researchers

MAY 2012 550PP 978-1-1181-4065-9 CL €182.00

Space Antenna Handbook

WILLIAM A. IMBRIALE, STEVEN GAO & LUIGI BOCCIA

California Institute of Technology; University of Surrey; Università della Calabria

- ❖ Presents a detailed review of antenna designs for applications such as satellite communications, space-borne SAR, global navigation satellite systems receivers, science instruments, and more
- ❖ Addresses the space antenna development from different angles, including electromagnetic, thermal and mechanical design strategies as it is required for space qualification
- ❖ Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios
- ❖ Offers both an introduction for students in the field and an in-depth reference for antenna engineers who work on the development of space antennas

READERSHIP: Researchers, professionals and graduate students in the fields of antennas and propagation, electromagnetics, RF/microwave/millimetrewave systems, satellite communications, radars, satellite remote sensing, satellite navigation and spacecraft system engineering; researchers in R&D organizations; engineers working on antenna and RF designs

APR 2012 768PP 978-1-1199-9319-3 CL €149.00



Ultra-wideband Antennas

A Design Guide

GISELLE GALVAN-TEJADA, MARCO PEYROT-SOLIS & HILDEBERTO JARDON-AGUILAR

All at National Polytechnic Institute

- ❖ Provides clear guidelines to the design of UWB antennas and presents the latest research in UWB Antenna technology (in particular frequency bands 3.1 to 10.6 GHz)
- ❖ Covers the State of the Art and Phase Linearity on UWB Antennas
- ❖ Provides thorough step-by-step guidance on the design of omnidirectional UWB antennas, including planar rectangular antenna and monopole square planar antenna
- ❖ Covers the design techniques of directional UWB antennas, including vivaldi antenna, leaf shape antenna, TEM horn antenna, Quasi-Yagi antenna and more

READERSHIP: Researchers, telecommunications engineers, specialists in wireless system design, and technicians in the field of electronics and communications; MSc and PhD students studying courses on antennas and telecommunications

SERIES: WIRELESS COMMUNICATIONS AND MOBILE COMPUTING

JUN 2012 480PP 978-0-470-68184-8 CL €112.00



Antennas for Global Navigation Satellite Systems

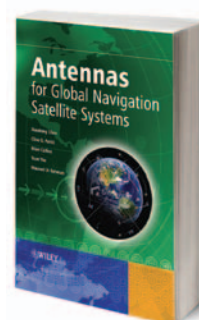
XIAODONG CHEN, CLIVE G. PARINI, BRIAN COLLINS, YUAN YAO & MASOOD UR REHMAN

Queen Mary, University of London; Queen Mary, University of London; Queen Mary, University of London; Beijing University of Posts; Queen Mary, University of London

- ❖ Covers the fundamentals and practical implementations of antennas for Global Navigation Satellite Systems (GNSS)
- ❖ Describes the technological advancements for e.g. GPS, Glonass and Galileo, Compass, and CP antenna
- ❖ Provides the basis for future enhancements such as GPS, multipath interface, RF interference, temperature range, sky noise etc
- ❖ Includes a number of real case studies to illustrate practical implementation of GNSS

READERSHIP: Antenna designers, system engineers, and researchers for GNSS systems, postgraduate students (antennas, satellite comms technology); R&D engineers in mobile handset manufacturers, spectrum engineers

APR 2012 256PP 978-1-1199-9367-4 CL €89.90



802.11aq Shortest Path Bridging Design and Evolution

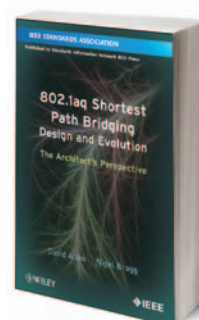
The Architect's Perspective

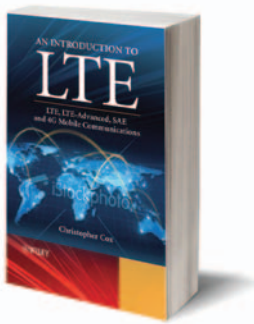
DAVID ALLAN & NIGEL BRAGG

- ❖ It provides a "Reader's Companion" to the Standard, which is by its nature a somewhat daunting read
- ❖ It dissects the different elements of SPB, and shows how and why they have to be as they are in order that the whole edifice is self-consistent when assembled

READERSHIP: System implementers, system & network architects, academics, IT professionals, networking professionals in general

MAR 2012 224PP 978-1-1181-4866-2 PR €51.90





An Introduction to LTE - LTE, LTE-Advanced, SAE and 4G Mobile Communications

CHRISTOPHER COX & DIRECTOR

Chris Cox Communications Ltd.

- ❖ Covers the latest developments in release 10 of the 3GPP specifications, including LTE-Advanced and 4G mobile telecommunications, at an introductory level
- ❖ Suitable for both technical staff who need a system-level introduction to LTE, and for non-technical staff who require an overview, also useful as reference material for intermediate technical courses
- ❖ Includes references to 3GPP specifications, with the specification section number, to help readers understand the basics of each topic, before going to the specifications for more detailed information
- ❖ Captures the essence of this technically complex subject, to provide valuable knowledge and understanding of LTE/SAE technology and principles

READERSHIP: Engineers working in the telecoms sector such as: support and applications engineers, test development engineers, IoT consultants, system designers, software engineers and test engineers; staff who are transferring from other technologies such as UMTS; technical students. Engineers in the satellite industry, two way radio industry and major user groups

MAY 2012 320PP 978-1-1199-7038-5 PR €65.90



Underwater Wireless Communications

M. STOJANOVIC

- ❖ Underwater acoustics is an important area of research, yet this is the first book to date that describes the signal processing aspects of the field
- ❖ The author is the pre-eminent authority on underwater acoustic communications
- ❖ The emphasis of this book is placed on identifying the differences between acoustic and radio communication principles
- ❖ This textbook spans topics from acoustic channel modeling to signal processing, and network solutions for channel sharing among different users

READERSHIP: The book is intended for practicing engineers, students, and researchers with a basic background in digital communications; specifically, it will target senior and graduate-level students

JUN 2012 448PP 978-0-470-23054-1 CL €109.00



LTE and the Evolution to 4G Wireless

Design and Measurement Challenges

2nd Edition

AGILENT

- ❖ Fully updated to include the latest information on LTE 3GPP standards
- ❖ Chapters on conformance testing have been majorly revised and there is an increased focus on LTE-Advanced
- ❖ Includes new sections on testing challenges as well as over the air MIMO testing, protocol testing and the most up-to-date test capabilities of instruments
- ❖ Written from both a technical and practical point of view by leading experts in the field

READERSHIP: Engineers, research scientists, chip set and mobile vendors, network vendors and operators, application developers, technology managers and regulators; GSM/UMTS operators, cdma operators and fixed network service providers, postgraduates

FEB 2012 504PP 978-1-1199-6257-1 CL €83.90



Voice over LTE (VoLTE)

MIIKKA POIKSELKÄ; HARRI HOLMA; JUKKA HONGISTO; JUHA KALLIO & ANTTI TOSKALA

Nokia, Finland; Nokia, Finland; Nokia Siemens Networks; Nokia Siemens Networks; Nokia, Finland

- ❖ Covering the technical and practical elements of Voice over LTE (VoLTE), this book explains the various approaches for providing voice services over LTE, a key network due for imminent roll out
- ❖ Focuses on the most important technological issues and allows readers to judge which of the different alternatives should be chosen for a real network
- ❖ Brings vital information for decision makers and those working on the technology and related products, as LTE has substantial cost-saving potential
- ❖ Authors bring a mixed of standards and product background, guaranteeing in-depth practical and standards information

READERSHIP: Engineers, product management and decision makers within telco vendors and operators, communication network architects, software designers, project leaders, programmers, business managers, marketing representatives, system architects; professors and postgraduate students at the advanced technical institute level

FEB 2012 264PP 978-1-1199-5168-1 CL €83.90

Mobile Clouds

Exploiting Distributed Resources in Wireless Networks

FRANK H. P. FITZEK & MARCOS D. KATZ

University of Aalborg, Denmark; University of Oulu, Finland

- ❖ Provides the basic ideas and concepts of exploiting cooperation and cognition in wireless networks
- ❖ Offers practical examples showing how practice mobile grids work in practice, as well as their expected benefits and challenges
- ❖ Introduces several cooperative strategies and distributed resource-sharing concepts for future mobile cloud applications
- ❖ Discusses the dynamics of the cloud, including cloud establishment, termination and updating

READERSHIP: Wireless/Networking researchers in industry and academia, students, and mobile phone programmers, managers interested in new technology developments, service providers, network operators, and those working in the gaming industry

MAY 2012 304PP 978-0-470-97389-9 CL €83.90



Near Field Communication

From Theory to Practice

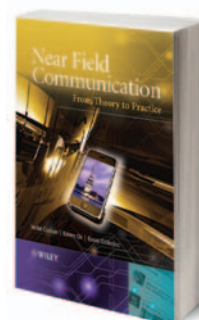
VEDAT COSKUN, KEREM OK & BUSRA OZDENIZCI

All at Isik University, Turkey

- ❖ Offers a complete understanding of the NFC technology, including standards, technical essentials, operating mode, application development with Java, security and privacy, ecosystem and business analysis etc
- ❖ Provides analysis, design as well as development guidance for professionals from administrative and technical perspectives
- ❖ Methods, techniques and modeling support including UML are demonstrated with real cases
- ❖ Includes an accompanying website containing PPT slides, sample exams, guide to the instructor etc.

READERSHIP: System and application developers, mobile developers, mobile commerce consultants, practitioners and professionals such as service designers, business and ecosystem analysts; researchers, software engineers, computer science students

FEB 2012 416PP 978-1-1199-7109-2 CL €89.90



Distributed Sensor Systems

Practice and Applications

HABIB F. RASHVAND & JOSEPH R. THOMAS

University of Warwick; Information Sciences Research

- ❖ Discusses the technological developments lead by sensor technology
- ❖ Addresses viable new applications
- ❖ Contains a number of case studies and typical applications illustrating the technical details, features and functions of the systems
- ❖ Demonstrates the benefits and limitations of distributed sensing

READERSHIP: Postgraduate level courses (e.g. communication engineering, engineering management, computer systems, industrial process, automation, design, environmental, urban, surveillance and many other sensor technology related courses); R&D engineers, system and application designers, researchers, industrial project managers and engineers, and technical and strategic managers planning new products; undergraduate students

APR 2012 416PP 978-0-470-66124-6 CL €85.90



Optical CDMA Access Networks

Principles, Analysis and Applications

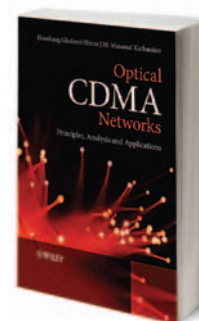
HOOSHANG GHAFOURI-SHIRAZ & MASSOUD KARBASSIAN

Both of University of Birmingham, UK

- ❖ Provides coverage of Optical CDMA networks, from principles and analysis to applications
- ❖ Addresses modern optical networks and their use in the current communication technology
- ❖ Discusses advanced and emerging technologies in optical coding, modulations, transceiver designs and networking
- ❖ Details hardware specifications, system block diagrams, networks nodes, and transceivers architectures

READERSHIP: Researchers, practicing engineers, and postgraduate students. Readers with an interest in optical networking

MAY 2012 480PP 978-0-470-66517-6 CL €112.00





Advanced Quantum Communications

Advanced Quantum Communications

An Engineering Approach

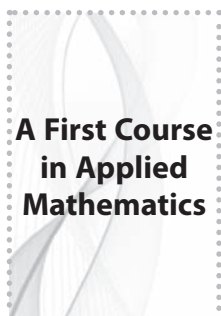
SANDOR IMRE & LASZLO GYONGYOSI

Mobile Communications Laboratory, Hungary

- ✦ Includes the basic mathematical tools in the appendix
- ✦ Includes end of chapter exercises
- ✦ Presentation materials/slides can be downloaded

READERSHIP: Quantum Communication/Cryptography researchers and graduate students; quantum information theorists

MAY 2012 300PP 978-1-1180-0236-0 CL €119.00



A First Course in Applied Mathematics

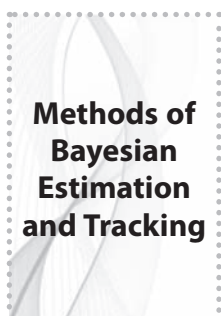
A First Course in Applied Mathematics

JORGE REBAZA

- ✦ Features both theoretical and application-oriented problems and exercises at varying levels of difficulty and select answers can be found in an appendix
- ✦ Written at a level that is accessible to practitioners and students in a wide range of scientific and engineering fields
- ✦ Blends standard topics with modern areas of application and provides the needed foundation for transitioning to more advanced topics
- ✦ Utilizes MATLAB to illustrate the theory and examples; however, previous knowledge of MATLAB or programming is not required

READERSHIP: Undergraduate courses in applied mathematics; students majoring in mathematics, engineering, and the natural sciences; engineers and scientists working in government and industry; academic libraries

APR 2012 480PP 978-1-1182-2962-0 CL TBA



Methods of Bayesian Estimation and Tracking

Methods of Bayesian Estimation and Tracking

A Practical Guide

ANTON J. HAUG & DAVID A. SCHUG

- ✦ Presents a Bayesian approach to linear and nonlinear Kalman filters that flows naturally into the development of all variations of the particle filter for non-Gaussian cases
- ✦ Provides very practical flow diagrams that quantify all estimation/tracking algorithms, each of which is supplemented with MATLAB® code
- ✦ Thoroughly classroom-tested for the past few years and incorporates feedback from both students and professors of target tracking and filtering
- ✦ Presents a conceptually cohesive roadmap that begins with fundamental principles and leads directly to derivations of many of the Gaussian estimation methods currently in use within a Bayesian framework

READERSHIP: Textbook for a one semester graduate course on estimation and tracking methods; mathematicians and engineers requiring a deeper understanding; academic libraries. Prerequisites include a graduate level understanding of probability theory, familiarity with matrix linear algebra and numerical methods including finite differences, and a working knowledge of Matlab

JUN 2012 448PP 978-0-470-62170-7 CL €99.90



Dynamical Systems Method and Applications

Theoretical Developments and Numerical Examples

ALEXANDER G. RAMM & NGUYEN S. HOANG

Kansas State University, USA; University of Oklahoma, USA

- ✦ Presents new methods for stable solution of linear and nonlinear well-posed and ill-posed problems as well as deconvolution problems and nonlinear Hammerstein integral equations
- ✦ Includes newly proposed DSM-based iterative methods and stopping rules for these methods were formulated and justified for solving ill-posed problems
- ✦ Illustrates the theoretically justified algorithms for numerical examples, demonstrating the efficiency of the algorithms
- ✦ Contains original results not available in other publications including methods for DSM evolution equations and nonlinear differential inequalities

READERSHIP: Course book for graduate-level courses in numerical analysis, dynamical systems, operator theory, and applied mathematics; students majoring in mathematics, computer science, physics, and engineering; professionals in areas including mathematics, physics, and engineering; and academic and corporate research libraries

FEB 2012 576PP 978-1-1180-2428-7 CL €119.00

Handbook of Real-World Applications of Modeling and Simulation

JOHN A. SOKOLOWSKI & CATHERINE M. BANKS

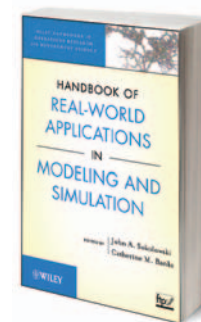
Both of Old Dominion University, USA

- ❖ Provides a practical one-stop reference on modeling and simulation and contains an accessible introduction to key concepts and techniques in self-contained chapters
- ❖ Introduces, trains, and prepares readers from all disciplines, such as statistics, mathematics, engineering, computer science, economics, business, to use modeling and simulation in their studies and research
- ❖ Emphasizes a multidisciplinary approach by featuring chapters written by well-known experts and key researchers in the various fields related to modeling and simulation
- ❖ Contains a collection of original ideas on modeling and simulation to help academics and practitioners develop a multifunctional perspective on these issues

READERSHIP: Academics and practitioners in operations research, business, management science, engineering, statistics, and mathematics, computer science; graduate-level courses in modeling and simulation in engineering and computer science schools; academic and corporate libraries. Modeling and simulation professionals and students who are at a masters level proficiency in engineering

SERIES: WILEY HANDBOOKS IN OPERATIONS RESEARCH AND MANAGEMENT SCIENCE

JUN 2012 416PP 978-1-1181-1777-4 CL €129.00



Introduction to the Theory of Computation

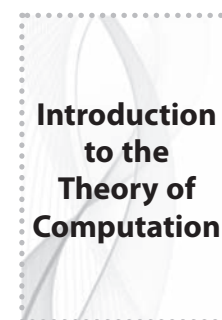
GEORGE TOURLAKIS

York University, Toronto, Canada

- ❖ Details the theory of computation and explains the development of programs and large scale software that are well documented, correct, efficient, reliable, and easily maintainable
- ❖ Presents an introductory approach and specifically omits specialized combinatorial topics for reader ease
- ❖ Develops the theoretical limitations of computing in its various models of computation, from the most general model-URMs (Unbounded Register Machines)-down to the finite automation
- ❖ Provides numerous programming examples including URMs, Loop Programs, FA (Deterministic Finite Automata) and NFA (Nondeterministic Finite Automata), and PDA (Pushdown Automata)

READERSHIP: Upper-undergraduate course book for students majoring in computer science, mathematics, and engineering; resource for computing professionals in areas including databases, computer architecture, language design, software engineering, and operating systems; academic libraries

JUN 2012 384PP 978-1-1180-1478-3 CL €95.90



The Mathematics of Infinity

A Guide to Great Ideas

2nd Edition

THEODORE G. FATICONI

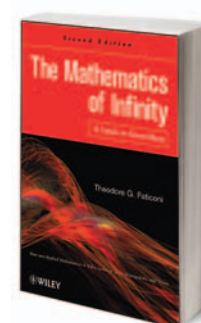
Fordham University, Dept. of Mathematics, Bronx, NY

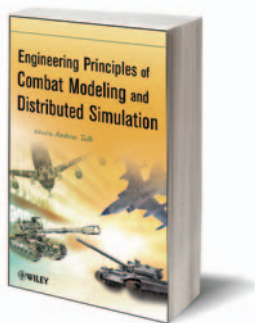
- ❖ A new chapter on logic and sets is featured, as well as new coverage of various topics including elements and predicates, cardinals as ordinals, and mathematical physics
- ❖ The author gradually increases the sophistication of the theorems and their proofs as the text progresses in an effort to provide a balanced and clearly explained treatment of infinity in mathematics
- ❖ Readers will learn how to construct proofs and understand why proofs use such a rigorous, spare language
- ❖ Presents a serious treatment of the mathematics of infinity and includes the theory in addition to the concepts of the subject

READERSHIP: Coursebook or supplemental recommended reading for undergraduate mathematics majors studying set theory; recommended reading for graduate students studying mathematics; the mathematically inclined general population with a background in algebra/trigonometry and Euclidian geometry; college, university, and public libraries

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

APR 2012 352PP 978-1-1182-0448-1 CL €69.90





Engineering Principles of Combat Modeling and Distributed Simulation

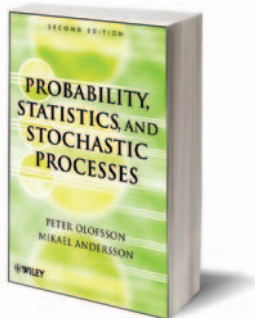
ANDREAS TOLK

Old Dominion University, USA

- ❖ Utilizes the author's considerable military expertise to provide practical examples and applications suitable for both industrial and government audiences
- ❖ Features contributions from top experts in the field on a variety of topics including new challenges in human, social, cultural, and behavioral modeling, virtual worlds, interactive digital worlds and more
- ❖ Combines operations research methods, computer science methods, and engineering principles to address the many facets and challenges of combat modeling and distributed simulation systems
- ❖ Successfully classroom-tested for the past seven years in courses such as Application of Combat Modeling, Introduction to Combat Modeling, and Principles of Combat Modeling and Simulation

READERSHIP: Scholars and practitioners in the fields of operations research, military modeling, simulation, and computer science; developers of computer games, virtual worlds, and other forms of interactive digital worlds; graduate students majoring in operations research, engineering, and computer science; academic and corporate libraries

MAR 2012 900PP 978-0-470-87429-5 CL €99.90



Probability, Statistics, and Stochastic Processes

2nd Edition

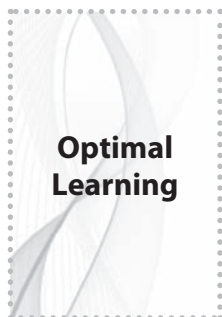
PETER OLOFSSON & MIKAEL ANDERSSON

Trinity University, USA

- ❖ Features expanded and revised chapter coverage on simulation, statistical inference, and Bayesian statistics with a focus on applications
- ❖ Presents the development of the basic concepts and results of probability theory and details statistical inference by including sections on linear regression, Bayesian statistics, and nonparametric methods
- ❖ Uniquely covers probability, statistics, and stochastic processes while other related book either only treat probability theory and statistical inference or probability theory and stochastic processes
- ❖ Provides new coverage on such areas as analysis of variance (ANOVA), basic asymptotic theory for maximum likelihood estimators, empirical distribution functions, and general linear methods, multiple comparisons, among others

READERSHIP: Reference and resource for scientists and engineers in the fields of statistics, mathematics, industrial management, and engineering; course book in probability and statistics at the upper-undergraduate level; academic libraries

JUN 2012 608PP 978-0-470-88974-9 CL €109.00



Optimal Learning

WARREN B. POWELL

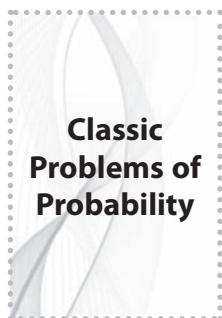
Princeton University, USA

- ❖ Presents optimal learning techniques with applications in energy, homeland security, health, sports, transportation science, biomedical research, biosurveillance, stochastic optimization, and more
- ❖ Utilizes a relatively new class of algorithmic strategies known as approximate dynamic programming, which merges dynamic programming, math programming, simulation, and statistics
- ❖ Features mathematical techniques that are applicable to a variety of situations, from identifying promising drug candidates to figuring out the best evacuation plan in the event of a natural disaster
- ❖ Introduces problems where the probability distributions are unknown, but where the opportunity to collect new information to improve estimates of parameters is present

READERSHIP: Textbook for courses in optimal learning and statistical learning theory at the graduate and PhD level; reference for practicing operations researchers, engineers, applied mathematicians, statisticians, and computer scientists; academic and corporate libraries

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

JUN 2012 352PP 978-0-470-59669-2 CL €95.90



Classic Problems of Probability

PRAKASH GORROOCHURN

Columbia University, USA

- ❖ Provides a clear and concise mathematical treatment and accurate history of classic problems in probability in chronological order
- ❖ Presents problems that are mostly elementary such as Gerolamo Cardano and Games of Chance, The Chevalier de Mere Problem, and D'Alembert Slips; however, the problems do increase in complexity
- ❖ Contains all of the core topics typically found in an undergraduate course and will be a valuable resource for students and those interested in the history of probability
- ❖ Includes 35 chapters that outline specific puzzles or probability problems followed by a detailed solution and a historical discussion

READERSHIP: Reference for researchers and professionals interested in problem-solving and the history of probability text or supplement for an undergraduate introductory probability and statistics and/or mathematical probability course; text or supplemental recommended reading for an introductory probability and statistics course in high school; academic libraries

MAY 2012 320PP 978-1-1180-6325-5 PR €53.90

Spatial Analysis Along Networks

Statistical and Computational Methods

ATSUYUKI OKABE & KOKICHI SUGIHARA

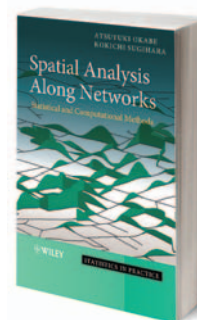
Both of University of Tokyo, Japan

- ❖ Presents a much-needed practical guide to statistical spatial analysis on a network, in a logical, user-friendly order
- ❖ Introduces the preliminary methods involved, before detailing the advanced, computational methods, enabling the readers a complete understanding of the advanced topics
- ❖ Dedicates a separate chapter to each of the major techniques involved
- ❖ Accompanied by a supplementary website will provide readers with a link to the free software package SANET, so they can execute the statistical methods described in the book

READERSHIP: Students and researchers studying spatial statistics, spatial analysis, geography, GIS, retail marketing, ecology, criminology, traffic engineering, and facility management; professionals applying spatial statistics, spatial analysis, etc including retail analysts, public officials and ecology non-profit organization members

SERIES: STATISTICS IN PRACTICE

APR 2012 296PP 978-0-470-77081-8 CL €83.90



Design Rules! A Primer on Laboratory Experiments

GERALD VAN BELLE

University of Washington, USA

- ❖ The principles and rules presented in this book apply very generally to most areas of research, including clinical trials, agricultural investigations, industrial procedures, quality control procedures, and others
- ❖ Current laboratory work of fundamental interest, i.e. genomics, proteomics, is discussed
- ❖ A feature of this primer is the close tie between design, analysis, and presentation of results
- ❖ A selected bibliography of experiments in industrial hygiene, occupational medicine, ergonomics, and environmental studies is also provided

READERSHIP: First resource for graduate students starting to think about a thesis design; biomedical researchers wanting an overview of criteria for grant applications; physicians and biologists working in laboratories

JUN 2012 248PP 978-0-470-12727-8 CL €47.90

**Design Rules!
A Primer on
Laboratory
Experiments**

Structural Equation Modeling with MPlus

Methods and Applications

JICHUAN WANG

Epidemiology and Biostatistics, Washington University, USA

- ❖ Focuses on the methods and practical aspects of SEM models using Mplus
- ❖ Looks at recent advances in SEM, such as multi-group models and latent growth models (LGM)
- ❖ Compares and contrasts SEM models to help readers in selecting the necessary method and introduces basic SEM models which can be applied to both health science and the social science field
- ❖ Supported by a supplementary website featuring Mplus syntax and program code

READERSHIP: Researchers and practitioners using structural equation modeling in the health and social sciences; graduate students following advanced statistics courses in the health, life and social sciences

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

MAY 2012 320PP 978-1-1199-7829-9 CL €83.90

**Structural
Equation
Modeling
with MPlus**

Foundations of Risk Analysis

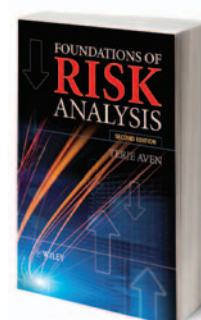
2nd Edition

TERJE AVEN

- ❖ Presents 20% new material on how risk is defined, understood and described, as well as the use of other approaches for representing and characterizing uncertainties than probability
- ❖ Includes new examples and case studies
- ❖ Provides a statistical framework for dealing with risk and uncertainty with new examples presented
- ❖ Adopts a conceptual approach based on elementary probability calculus and statistical theory

READERSHIP: Risk analysts and undergraduate and postgraduate students in risk management (econometrics, engineering applications etc); Advanced undergraduates, graduates, and analysts from statistics, engineering and the physical sciences, as well as specialists dealing with risk analysis

APR 2012 230PP 978-1-1199-6697-5 CL €65.90





Multiple Imputation and its Application

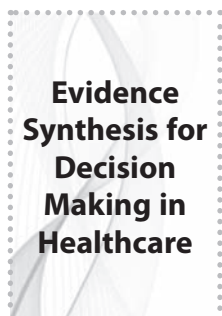
JAMES CARPENTER & MICHAEL KENWARD

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

MAY 2012 320PP 978-0-470-74052-1 CL €57.90



Evidence Synthesis for Decision Making in Healthcare

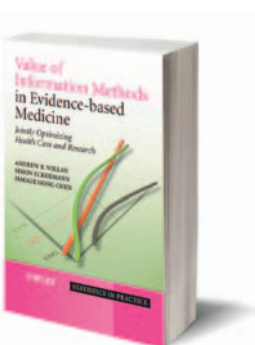
ALEXANDER J. SUTTON, KEITH R. ABRAMS, A.E. ADES, NICOLA J. COOPER & NICKY J. WELTON

University of Leicester, UK

- ❖ A team of expert authors present a unique computational approach to synthesizing evidence from multiple sources
- ❖ The first book to present a unified computational approach to evidence synthesis, introducing the subject with an overview of Bayesian methods
- ❖ Emphasizes the importance of model critique and checking for evidence consistency, as well as appropriate diagnostics and their application
- ❖ Adopts a probabilistic approach throughout, via the use of MCMC simulation
- ❖ Provides adaptable WinBUGS code via a website allowing readers to apply to their own analyses

READERSHIP: Statisticians, policy makers, health economists, statisticians, operations researchers and decision modelers/makers undertaking health technology assessments

MAY 2012 320PP 978-0-470-06109-1 CL €57.90



Value of Information Methods in Evidence-based Medicine

Jointly Optimizing Health Care and Research

ANDREW WILLAN, SIMON ECKERMAN & HONG CHEN

University of Toronto, Canada

- ❖ Accessible to both clinical researchers and health care professionals
- ❖ Provides an accessible guide to Value of Information methods and discusses these methods for use in interpreting current information on diagnostic tests
- ❖ Illustrated throughout with examples, making this accessible to a wider audience, such as clinical researchers and health care policy makers
- ❖ Introduces decision theory and clinical research and features methods for analysis in clinical trials

READERSHIP: Biostatisticians, health economists and clinical researchers; health care policy makers, researchers in private and public health

JUN 2012 320PP 978-0-470-74480-2 CL €71.90



Design and Analysis of Clinical Experiments

2nd Edition

JOSEPH L. FLEISS

Columbia University, New York

- ❖ End-of-chapter problems are given with hints and complete solutions
- ❖ New chapters include: design and analysis issues related to randomized clinical trials; generalized estimating equations; and missing data
- ❖ Methods for analyzing data are reviewed in full and according to local, regional, and national regulations
- ❖ The book includes tables of critical values, 200 random permutations of the first 100 integers, and an appendix on up-to-date programmable methods for the determination of sample sizes

READERSHIP: Clinical investigators and biostatisticians in biomedical research centers and the pharmaceutical industry, second-year, graduate-level course on the design of experiments in clinical trials

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

MAY 2012 512PP 978-0-470-05393-5 CL €95.90

Regression Analysis by Example

5th Edition

SAMPRI CHATTERJEE & ALI S. HADI

New York University, USA; Cornell University, USA

- ❖ Provides updated data sets, in general, and new data sets in engineering, medical and health science, and business and economics
- ❖ Includes additional topics such as surrogate ridge regression, fitting nonlinear models, errors in variables, and ANOVA for designed experiments
- ❖ Reorganized, expanded, and upgraded exercises at the ends of each chapter
- ❖ Supported by a fully integrated Web page that provides data sets in R, SPSS, SAS, and Minitab and a central glossary of terms and formulae at the end of the book

READERSHIP: As a one-semester book for an upper-undergraduate or beginning graduate course in applied regression within departments of statistics, biostatistics, and social sciences; as a reference for readers who need a quick update on the methods and applications of regression; for purchase in academic and university library settings

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

JUN 2012 416PP 978-0-470-90584-5 CL €109.00

Principal Components Analysis and Regression Models for Functional Data

Theory and Applications

HERVÉ CARDOT, PASCAL SARDA & ALOIS KNEIP

ENESAD; Université Paul Sabatier; Bonn Graduate School of Economics

- ❖ Examines the role of FDA in modern science, and provides an overview of the state-of-the-art of the area
- ❖ Focuses on linear modeling, allowing an in-depth exploration of the techniques used, and the various models involved
- ❖ Discusses different techniques of estimation of the functional parameters, and assesses these techniques through asymptotic results
- ❖ Includes numerous simulations and case studies from a wide range of disciplines, as well as exercises with solutions

READERSHIP: Professional statisticians, econometricians, researchers and data analysts working with functional data, masters and PhD students in statistics or applied mathematics, researchers and practitioners using statistics in a wide range of disciplines including, medicine, financial analysis, linguistics, meteorology, criminology, and agronomy

JUN 2012 320PP 978-0-470-98564-9 CL €71.90

Statistical Monitoring of Complex Multivariate Processes

UWE KRUGER & LEI XIE

The Petroleum Institute

- ❖ A comprehensive overview of developments in multivariate statistical process monitoring over the last 20 years with a focus on the application to industrial processes
- ❖ Brings together a large body of work to address the fields drawbacks, and develops methods for their improvement
- ❖ Contains real life industrial applications, outlining deficiencies in the methodology and how to address them
- ❖ Includes tutorial questions, calculations and worked examples, to enhance the learning aspect and supplementary website including Matlab algorithms and examples

READERSHIP: Professionals working in process control who needs to apply statistical methods in their work; senior undergraduates or taught graduate students of engineering and statistics

JUN 2012 416PP 978-0-470-02819-3 CL €71.90

Nonparametric Predictive Inference

FRANK COOLEN

Durham University, UK

- ❖ Provides an introduction and overview of the increasingly popular area of Nonparametric Predictive Inference (NPI)
- ❖ Discusses NPI in comparison with classical and Bayesian statistics, highlighting the advantages of NPI
- ❖ Provides numerous interdisciplinary examples of NPIs applications, ranging from use for survival data to Bernoulli data
- ❖ Supported by a supplementary website that will discuss future developments of NPI, and provide support to readers of the book

READERSHIP: Researchers and academics in statistics, mathematics, reliability and operations research; also, advanced level students of statistics, mathematics, reliability, or and artificial intelligence

MAY 2012 256PP 978-0-470-72334-0 CL €83.90

**Regression
Analysis by
Example**

**Principal
Components
Analysis and
Regression
Models for
Functional
Data**

**Statistical
Monitoring
of Complex
Multivariate
Processes**

**Nonparametric
Predictive
Inference**

Statistical Disclosure Control

Statistical Disclosure Control

ANCO HUNDEPOOL

Statistics Netherlands

- ❖ Introduces all of the key concepts and definitions involved with statistical disclosure control and provides a broad-ranging review of the methods available to control disclosure
- ❖ Presents a high level overview of how to approach problems associated with confidentiality
- ❖ Explains the subtleties of group disclosure control
- ❖ Written by experts within leading National Statistical Institutes who use examples throughout the book along with case studies to demonstrate how particular methods are used

READERSHIP: Practitioners and employees of national statistical offices and survey organizations who need to be informed and make decisions on disclosure limitation; graduate or advanced undergraduate student of applied statistics and survey methodology

SERIES: WILEY SERIES IN SURVEY METHODOLOGY

MAY 2012 320PP 978-1-1199-7815-2 CL €77.90

Statistical Learning

Statistical Learning

A Visualization Approach Using R

JUSSI KLEMELÄ

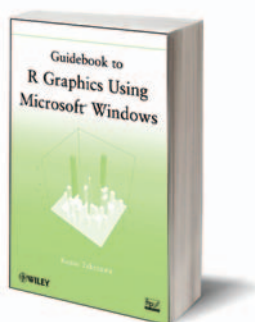
University of Oulu, Finland

- ❖ This book takes a truly modern approach to statistical learning methods by incorporating visualization methods to illustrate the core concepts of statistical learning and its applications
- ❖ The author designates the second half of the book as a toolbox for the reader, providing coverage of the key definitions and methods related to both regression and classification
- ❖ This book is the only book on the market that uses visualization techniques to identify, test, and analyze classifiers for their most accurate exploration of data
- ❖ The authors own R software package is implemented throughout the book and is available via a related Website, allowing readers to easily reproduce and modify the presented calculations and experiments

READERSHIP: As a text for courses on nonparametric function estimation or advanced special topics in statistics; as a reference for practitioners in the field of finance

SERIES: WILEY SERIES IN COMPUTATIONAL STATISTICS

JUN 2012 420PP 978-0-470-38442-8 CL €99.90



Guidebook to R Graphics Using Microsoft® Windows

KUNIO TAKEZAWA

- ❖ Rather than focus on the analytical capabilities of R, this book presents an introductory guide to using R with a specific focus on the creation of graphics from data in Microsoft® Windows
- ❖ Provides a foundation for R novices, outlining how to get started with the software while also discussing the basics on establishing, saving, and printing graphs along with fundamental coverage of essential base-package plotting functions
- ❖ Throughout the book, concise explanations of key concepts of R graphics assist readers with carrying out the presented procedures
- ❖ Detailed appendices provide additional data sets and guidelines for working with R, and a related FTP site houses electronic versions of the data, allowing readers to work hands-on and at their own pace

READERSHIP: As a reference for researchers and professionals in the fields of statistics, public health, business, and the life and social sciences who use or would like to learn how to use R to create visual representations of data; as a supplement for courses on statistical analysis at the upper-undergraduate level; and academic and research libraries

APR 2012 288PP 978-1-1180-2639-7 PR €61.90

Information Search After Static or Moving Targets - Theory and Modern Applications

Information Search After Static or Moving Targets - Theory and Modern Applications

IRAD BEN-GAL & EUGENE KAGAN

Both of Tel-Aviv University, Israel

- ❖ Provides a general information-theoretic approach to the problem of searching in real-time for a static or a moving target over a discrete sample space
- ❖ Extremely relevant for classification of data records
- ❖ Presents a unified framework for the methods currently available and demonstrates their integration
- ❖ The algorithms discussed will be implemented in C++ programs, available on an accompanying website

READERSHIP: R&D engineers and researchers in the field of data mining and knowledge engineering; graduate students in engineering and applied mathematics

JUN 2012 320PP 978-0-470-97393-6 CL €83.90

Classification Methodology for Symbolic Data

LYNNE BILLARD & EDWIN DIDAY

University of Georgia, Athens; Université de Paris IX - Dauphine, 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

READERSHIP: Postgraduate students of, and researchers within, web mining, text mining and bio-engineering, practitioners of symbolic data analysis, i.e., statisticians and economists within the public (e.g. national statistics institutes) and private (e.g. banks, insurance companies, companies managing databases) sectors

MAY 2012 288PP 978-0-470-71393-8 CL €77.90

Classification
Methodology
for Symbolic
Data

Workshop Statistics

Discovery with Data

4th Edition

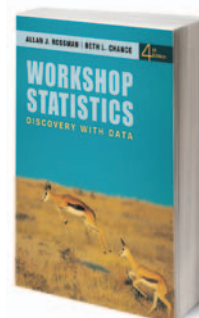
ALLAN J. ROSSMAN & BETH L. CHANCE

Both of California Polytechnic State University, San Luis Obispo, USA

- ❖ Enhanced from previous issues with more focus and emphasis on collaborative learning
- ❖ Requires student observation, and integrates technology for gathering, recording, and synthesizing data
- ❖ Presents more standards for teaching statistics in an innovative, investigative, and accessible way
- ❖ Provides in-depth guidance and resources to support active learning of statistics and includes updated real data sets with everyday applications in order to promote statistical literacy

READERSHIP: Maths and Statistics lecturers and students

NOV 2011 752PP 978-0-470-54208-8 PR €102.00



Bioinspiration and Biomimicry in Chemistry

GERHARD SWIEGERS

DataTrace-DNA

- ❖ Reviews and summarizes the many and varied forms of bioinspiration and biomimicry that are found in chemistry, from the crude to the highly sophisticated, from the near-biological to the totally industrial
- ❖ Critically evaluates our true understanding of biological processes and systems by considering our ability to replicate them in non-biological settings
- ❖ Illuminates and reviews gaps in our understanding that become apparent in view of our inability to replicate particular processes and systems
- ❖ Seeks to fill those gaps by reference to other systems, both biological and artificial

READERSHIP: Academic and research chemists involved in materials synthesis and characterization, nanotechnology, homogeneous catalysis, polymer conformational dynamism in solution, molecule / ion transport, abiological receptors / switches, and medicinal and synthetic organic chemistry; chemists interested in complexity and complex systems science; systems biologists, biomaterials scientists, biomechanical engineers, bioengineers; scientists seeking sustainable technologies in the energy and renewable resource sectors; environmental engineers and designers

MAY 2012 300PP 978-0-470-56667-1 CL €109.00

Bioinspiration
and
Biomimicry
in Chemistry

Biomimetic Approaches for Biomaterials Development

JOAO F. MANO

University of Minho, Caldas das Taipas, Portugal

- ❖ Specific materials design instead of taking what's there: the book shows how to achieve the desired functionality by using biomimetics
- ❖ A joint effort towards a common goal: topics and authorship reflect the fruitful collaboration of materials science, biology and biomedicine for the advancement of biomaterials
- ❖ Broad scope: instead of focusing on one aspect, the book sheds light on a multitude of applications attainable with biomimetic approaches
- ❖ Topics include: natural biomaterials, matrices for drug delivery, tissue engineering scaffolds, biomimetic hydrogels

READERSHIP: Materials scientists, medicinal chemists, biochemists, polymer chemists, engineering scientists, institutes, institutions, libraries

JUN 2012 500PP 978-3-527-32916-8 CL €149.00

Biomimetic
Approaches
for
Biomaterials
Development

Guide to Mitigating Spacecraft Charging Effects

Guide to Mitigating Spacecraft Charging Effects

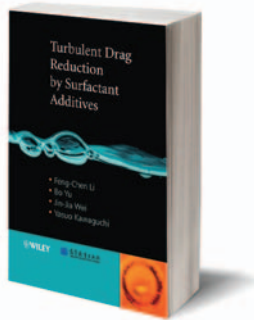
HENRY B. GARRETT

- ❖ Acts as single reference source for both theory of spacecraft charging and suggested practical detailed spacecraft design requirements and procedures
- ❖ This is the only book that blends the theoretical and practical aspects of spacecraft charging
- ❖ Surface and internal electrostatic discharges are now known to be major sources of spacecraft failures
- ❖ Guide to Spacecraft Charging Effects provides solutions to this problem

READERSHIP: NASA spacecraft reliability engineers, aerospace industry electromagnetic compatibility engineers, dod (space and missile center); european space agency; academia; scientists developing instruments such as particle detectors, electric field monitors, plasma waves, and surface potentials

SERIES: JPL SPACE SCIENCE AND TECHNOLOGY SERIES

JUN 2012 241PP 978-1-1181-8645-9 CL €109.00



Turbulent Drag Reduction by Surfactant Additives

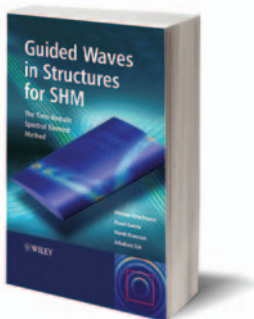
FENG-CHEN LI, BO YU, JIN-JIA WEI & YASUO KAWAGUCHI

Harbin Institute of Technology, China; China University of Petroleum (Beijing), China; Xi'an Jiao Tong University, China; Tokyo University of Science, Japan

- ❖ Covers turbulent drag reduction, heat transfer reduction, complex rheology and the real-world applications of drag reduction
- ❖ Introduces advanced testing techniques, such as PIV, LDA, and their applications in current experiments, illustrated with multiple illustrations and equations
- ❖ Real-world examples of the topic is increasingly important industrial applications enable readers to implement cost- and energy-saving measures
- ❖ Explains the tools before presenting the research results, to give readers coverage of the subject from both theoretical and experimental viewpoints

READERSHIP: Researchers, graduate students, and engineers in the fields of fluid mechanics, mechanical engineering, turbulence, chemical engineering, municipal engineering; researchers, graduate students, and engineers in the fields of flow control, chemistry, computational fluid dynamics, experimental fluid dynamics, rheology

JAN 2012 296PP 978-1-1181-8107-2 CL €155.00



Guided Waves in Structures for SHM

The Time - domain Spectral Element Method

WIESLAW OSTACHOWICZ, PAWEŁ KUDELA, MAREK KRAWCZUK & ARKADIUSZ ZAK

Polish Academy of Sciences, Poland

- ❖ Addresses both numerical analysis and experimental research in a single volume
- ❖ Presents state-of-the-art numerical models based on the Spectral Finite Element Method and experimental research employing laser technologies
- ❖ Coverage includes an introduction to theory of elastic wave propagation in solids, signal processing techniques the spectral element approach, elastic waves in 1D and 2D structures, EWavePro simulation environment, dispersion relations and damage localisation methods
- ❖ Accompanied by a website housing the demo version of the authors own software dedicated to solve the problems indicated in the book

READERSHIP: Researchers and graduate students working within structural health monitoring, signal processing and structural dynamics; practising engineers working with structural health monitoring and NDT

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System Identification

A Frequency Domain Approach
2nd Edition

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Monitoring and Control of Information-Poor Systems

An Approach Based on Fuzzy Relational Models

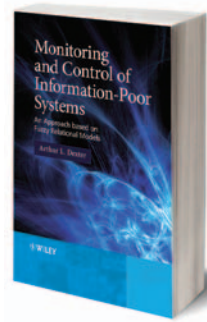
ARTHUR DEXTER

University of Oxford, UK

- ❖ Presented in an engaging, easy-to-understand manner by a leading researcher in this fast-moving and varied field
- ❖ Provides solution methods for fuzzy logic problems which are applicable in a variety of different contexts
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READERSHIP: Practicing control engineers; R&D engineers in modeling and control; graduate students; graduate students of control engineering

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Understanding Aerodynamics - Arguing from the Real Physics

J. DOUGLAS MCLEAN

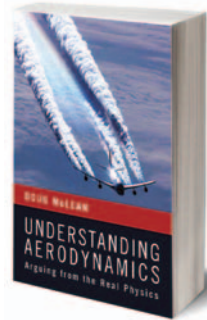
Boeing Commercial Airplane Group

- ❖ Provides a refreshing view of aerodynamics that is based on the authors decades of industrial experience yet is always tied to basic fundamentals
- ❖ Provides intuitive physical interpretations and explanations, debunking commonly-held misconceptions and misinterpretations
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READERSHIP: Aerodynamics engineers and designers; graduate and senior undergraduate students on aircraft design/aerodynamics/fluid & structural dynamics courses

SERIES: AEROSPACE SERIES (PEP)

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Sense and Avoid in UAS

Research and Applications

PETER J. DELVES & PLAMEN PARVANOV ANGELOV

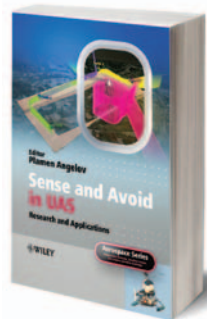
Lancaster University, UK

- ❖ Addresses the challenges associated with sense and avoid systems in UASs/UAVs in their complexity and entirety
- ❖ Fulfills the current gap in published literature on sense and avoid
- ❖ Covers views and analyses from sensing to guidance to human factors to regulatory issues
- ❖ Authored by leading researchers as well as industry practitioners worldwide

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2nd Edition

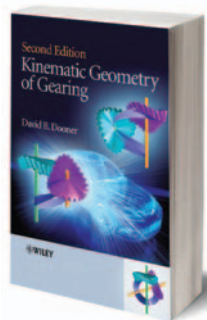
DAVID B. DOONER

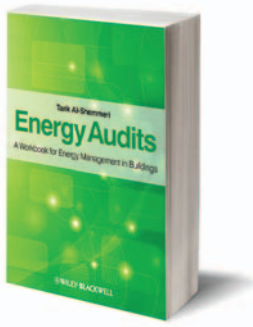
University of Puerto Rico-Mayagüez, Puerto Rico

- ❖ Presents a generalized approach for the integrated design and manufacture of gear pairs, cams and all other types of toothed/motion/force transmission mechanisms using computer implementation
- ❖ Offers substantial new material including a completely new chapter on gear vibration load factor and impact, a methodology for general tooth forms, radius of torsure, cylinder of osculation, and cylindroid of torsure, and a completely reworked 3 laws of gearing
- ❖ Progresses from the fundamentals of geometry to construction of gear geometry and application
- ❖ Includes many original ideas, in particular the treatment of spatial gearing, as well as addressing other recent development in the field

READERSHIP: R&D engineers in industry, academics and researchers working in mechanics and kinematics, in particular in gearing, senior/post grad students in mechanical engineering

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A Workbook for Energy Management in Buildings

TARIK AL-SHEMMERI

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- ❖ Helps understanding of why energy losses occur and how they can be reduced

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READERSHIP: A key text for higher-level real estate students on BSc, MSc and MBA courses in the US, UK, Australia/New Zealand, Hong Kong, Singapore; property professionals worldwide in fund management, real estate, pension and insurance administration

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Cable-Stayed Bridges

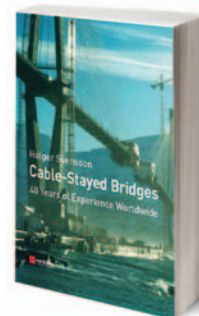
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- ❖ Authoritative guide to skills needed to implement ground source heat pump schemes
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READERSHIP: Applied geological and geotechnical consultants, especially hydrogeologists; civil, building services and HVAC (heating, ventilation and air conditioning) engineers; architects; planners, planning authorities and environmental regulators; Heat pump installers and drillers; final year undergraduate and MSc level students in applied geological sciences or engineering. In particular, MSc level courses in: hydrogeology; geotechnical engineering; environmental geology; environmental engineering; renewable energy

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- ❖ It addresses sustainability by encouraging owners and occupiers to think holistically about the entire life-cycle of the building
- ❖ Helps to make buildings work better by delivering cost-effective buildings of better quality
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READERSHIP: Design professionals, facilities managers, advanced students of these disciplines

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Architectural Engineering Department, The Pennsylvania State University; Faculty of Architecture, Design and Planning, The University of Sydney

- ❖ First book to cover mobile and pervasive computing in architecture, construction and engineering (AEC)
- ❖ These technologies promise significant benefits in areas such as materials management, project management, collaboration and documentation
- ❖ Provides guidance on how to use existing technologies to realise the productivity improvements mobile and pervasive computing can bring

READERSHIP: Academics, researchers, and graduate students at universities; industrial researchers seeking productivity improvements in construction disciplines

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Construction Innovation and Process Improvement

AKINTOLA AKINTOYE

School of the Built and Natural Environment, Glasgow Caledonian University

- ❖ Covers all construction process themes in one book
- ❖ Encourages a reflective approach through numerous exercises and tasks
- ❖ Demonstrates how to put changes in practice in place
- ❖ Examines construction process improvement based on best practices in other industries

READERSHIP: Core text for postgraduates on taught courses in construction and in project management; recommended reading for final year undergraduates on construction and engineering courses; practicing project managers and other middle to senior management professionals in the larger construction contracting firms

SERIES: INNOVATION IN THE BUILT ENVIRONMENT

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Relationship Networks in Construction Coalitions

STEPHEN PRYKE

University College London, UK

- ❖ Shows how social network analysis improves the management of complex construction projects
- ❖ Offers clear explanation of concepts and relevant illustration
- ❖ Well positioned in current improvement agenda

READERSHIP: Postgraduate students - MSc in project management; construction management Academic researchers in the management of projects / project management field; 'Thinking' practitioners from leading edge professional consultancies and project management companies

JUN 2012 224PP 978-1-4051-4173-4 CL €83.90

Relationship Networks in Construction Coalitions

A Theory of Construction Management

MILAN RADOSAVLJEVIC & JOHN BENNETT

Both of University of Reading

- ❖ Offers a robust and consistent theoretical basis to explain the performance of the main approaches to construction management
- ❖ Corporate and project management in construction are described as an integrated whole
- ❖ Provides the basic toolkit a student needs to think through the practical situations they will later face
- ❖ Helps bring the theory of construction management to international students who struggle to find a solid grounding in this complex and fragmented subject

READERSHIP: Final year students worldwide in construction management; quantity surveying; commercial management; construction project management; building surveying. Postgraduate students worldwide in all the construction disciplines including architecture, civil engineering, structural engineering, services engineering, project management, construction management, corporate management; quantity surveying; building surveying

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Strategic Issues in Public-Private Partnerships

2nd Edition

GEERT DEWULF

Department of Construction Management & Engineering, University of Twente, The Netherlands

- ❖ Provides an international overview of the application of concessions - the most common form of PPP
- ❖ Focus on the introduction of concessions and the problems encountered, the solutions found for these problems, and the different approaches to concessions chosen across different countries
- ❖ Provides a strategic overview for those involved in setting up and managing PPP projects
- ❖ Illustrates lessons from different national backgrounds and gives managers the insight and tools to manage PPP projects effectively

READERSHIP: Contractors & funding organizations involved in PPP projects; researchers in construction management and public administration

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Strategic Issues in Public-Private Partnerships

Plumbing

4th Edition

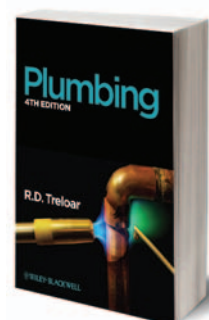
R. D. TRELOAR

Colchester Institute, UK

- ❖ The leading single volume textbook for NVQ/SVQ plumbing students at both levels 2 and 3
- ❖ Updated with new regulations and standards and a significant new chapter on energy conservation & sustainability
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- ❖ Full colour line diagrams and around 140 photographs

READERSHIP: NVQ/SVQ plumbing students at levels 2 and 3; plumbing diploma students; trained plumbers wanting a single volume reference

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200 Contractual Problems and their Solutions

3rd Edition

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- ❖ Answers all the questions regularly asked about building contracts
- ❖ New edition features 50 new problems
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READERSHIP: Construction contract and commercial managers, construction contractors, quantity surveyors and architects

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Environmental and Energy Law

KAREN MAKUCH & RICARDO PEREIRA

Both of Imperial College London, UK

- ❖ Makes environmental law readily accessible to engineers and scientists with no legal background and puts key legal provisions within the context of environmental law
- ❖ Contains diagrams of key processes and 2018 bubbles' to show where environmental law is relevant
- ❖ Has summary tables of key legal points and crib notes
- ❖ Editor has extensive experience of lecturing on environmental law to engineering and science students

READERSHIP: Advanced undergraduate and postgraduate students in a number of engineering courses, particularly civil and environmental engineering

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Building Contract Claims

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DAVID CHAPPELL

David Chappell Consultancy Limited

- ❖ The basic principles of building contract claims are often not well understood by the industry so many building contract claims are ill-founded
- ❖ This book sets out the legal basis of claims for additional payment, and shows what can and cannot be claimed under the main forms of contract
- ❖ A subject of real interest to both professionals and contractors, as few building contracts reach conclusion without some claim being made
- ❖ Fully updated, covering the latest contracts, court judgments and building practice

READERSHIP: Architects, contract administrators, project managers and quantity surveyors, as well as contractors, contracts consultants and construction lawyers

AUG 2011 544PP 978-0-470-65738-6 CL €115.00



Sustainable Refurbishment

SUNIL SHAH

- ❖ Includes summary sections in each chapter to highlight the key points for busy FMs
- ❖ Focuses on EU and US refurbishment approaches and also makes reference to practices including Australia, Hong Kong, Canada and Singapore
- ❖ Provides a much-needed link between policy-level commitment and the detailed technical delivery
- ❖ An easily digestible and authoritative review of the key issues in green retro-fitting

READERSHIP: Facilities managers; building surveyors; property managers/owners

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Analysis of Structural and Soil Systems with Excel

ROBERT LUND SOGGE

Civil Engineering Consultant, USA

- ❖ A hands-on reference enabling readers to efficiently solve problems in the analysis of geotechnical and structural systems using Excel and VBA macros
- ❖ Uniquely utilises Excel spreadsheets and programming tools to solve practical problems in soil-structure interaction in a cost-effective way
- ❖ Both a self-study guide and a reference, with extensive question and answer sections within chapters, to enable hands-on learning
- ❖ Companion website features Matlab coding, Excel spreadsheets and VBA macros

READERSHIP: Practicing geotechnical and structural engineers involved in soil-structure interaction problems; advanced senior and graduate civil engineering students majoring in structural or geotechnical can use the book as a text for a course that can substitute for a highly theoretical presentation on the finite element subject and show the student how to apply the method and converse in its vocabulary

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The Urban Heritage Landscape

Managing Heritage in an Urban Century

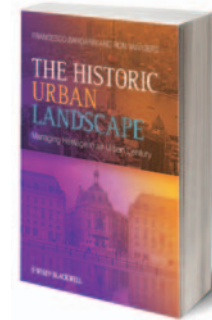
FRANCESCO BANDARIN & RON VAN OERS

Both of UNESCO World Heritage Centre

- ❖ Addresses key issues and best practice for urban conservation
- ❖ Authors able to offer unique insight from UNESCOs World Heritage Centre
- ❖ Examples drawn from urban heritage sites worldwide from Timbuktu to Liverpool
- ❖ Richly illustrated with colour photographs

READERSHIP: Architects, planners, surveyors, engineers worldwide working in heritage conservation; managers of the 350+ world heritage sites; local authority conservation officers; postgraduate conservation students; professional groups client bodies, managers, advisors; academic and vocational courses related to conservation; interested individuals involved in building preservation trusts; Society for the Protection of Ancient Buildings (SPAB) members; the Georgian Group, etc.; further reading for undergraduate students architects, surveyors

MAR 2012 280PP 978-0-470-65574-0 CL €77.90



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Vertrieb

Sibylle Martiné
(Verkaufsleitung
Buchhandel)
Tel.: +49 (0) 6201) 606-405
Fax: +49 (0) 6201) 606-100
E-Mail: smartiné@wiley.com

Anette Martiné
Tel.: +49 (0) 6201) 606-407
Fax: +49 (0) 6201) 606-100
E-Mail: amartine@wiley.com

Claudia Mittnacht
Tel.: +49 (0) 6201) 606-406
Fax: +49 (0) 6201) 606-100
E-Mail: cmittnacht@wiley.com

Angelika Bähr (Großwerke)
Tel.: +49 (0) 6201) 606-222
Fax: +49 (0) 6201) 606-100
E-Mail: abaehr@wiley.com
E-Mail: sales@wiley.com

Messen und Ausstellungen

Simone Tremmel
Tel.: +49 (0) 6201) 606-131
Fax: +49 (0) 6201) 606-100
E-Mail: stremmel@wiley.com

Roland Hess
Tel.: +49 (0) 6201) 606-197
Fax: +49 (0) 6201) 606-100
E-Mail: rhess@wiley.com

Kundenservice

Nadine Hahn
Tel.: +49 (0) 6201) 606-400
Fax: +49 (0) 6201) 606-184
E-Mail: service@wiley-vch.de

Genehmigte Remittenden an:

Deutschland / Österreich
Wiley-VCH GmbH & Co KG a A
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Wepf & Co. AG
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4052 Basel
Schweiz

deAußendienst

PLZ Zuständiger

Außen- dienst-Mitarbeiter:

01-02 Jutta Becher
03 Arno Montiel
04 Jutta Becher
06 Harald Kaufmann
07-09 Jutta Becher
10-29 Arno Montiel
30-35 Harald Kaufmann
36 Hans Rosenstengel
37-40 Harald Kaufmann
41 Stefan Schmitz
42-49 Harald Kaufmann
50-56 Stefan Schmitz
57-59 Harald Kaufmann
60-65 Hans Rosenstengel
66-67 Stefan Schmitz
68-79 Hans Rosenstengel
80-87 Jutta Becher
88-89 Hans Rosenstengel
90-99 Jutta Becher

Österreich / Schweiz

Tom Derungs

Schweiz

Tom Derungs

Luxemburg

Stefan Schmitz

Jutta Becher

Viatissstr. 64
90480 Nürnberg
Tel.: +49 (0) 911) 40 31 98
Fax: +49 (0) 911) 40 67 10
Mobil: (0172) 8 10 90 45
E-Mail:
jutta.Becher-VfV@t-online.de

Tom Derungs

Reibenweg 11a
CH 3294 Bueren a. Aare
Tel: (0041) 32 351 19 64
Fax: (0041) 32 351 19 65
Mobil: +41 (0) 79) 648 76 51
E-Mail:
Thomas.derungs@wiley.com

Harald Kaufmann

Postfach 10 10 49
45410 Mülheim-Ruhr
Tel: +49 (0) 208) 76 30 51
Fax: +49 (0) 208) 76 24 40
Mobil: (0171) 2 74 95 38
E-Mail:
Harald.Kaufmann@t-online.de

Arno Montiel

Neukirchstr. 36
28215 Bremen
Tel: +49 (0) 421) 437 41 91
Fax: +49 (0) 421) 437 41 92
Mobil: (0172) 9 13 85 45
E-Mail:
arno.montiel@t-online.de

Hans Rosenstengel

Stolzestraße 8
75175 Pforzheim
Tel: +49 (0) 7231) 298 88 82
Fax: +49 (0) 7231) 298 88 84
Mobil: (0171) 787 06 59
E-Mail: hans.rosenstengel@t-online.de

Stefan Schmitz

Seelbacherstr. 48a
65510 Idstein
Tel: +49 (0) 6126) 5 24 03
Fax: +49 (0) 6126) 36 53
Mobil: (0171) 2 12 53 24
E-Mail:
s.schmitz.verlagsvertretung@t-online.de

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