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READERSHIP: Practitioners in the paper and chemical industries, company libraries, chemical engineers, process engineers, as well as industry and environmental chemists

Print ISBN: 978-3-527-33184-0 (Cloth) US$300.00 • JAN 2013 • 800PP
**Antimicrobial Peptides**

**MICHAEL ZASLOFF**

- Serves as the first book to provide a comprehensive overview of the field of innate immunity — the “hard wired” system of host defense that has emerged over the past decade as an important system in health and disease
- Examines the reasons why antimicrobial peptides are of such interest, what has been accomplished commercially to date, the problems that have been experienced, potential solutions, and what the future holds
- Represents the written work of a “pioneer” in the field of antimicrobial peptides who has been involved in discovery, drug development, the study of the role played by AMPs in human health and disease

**READERSHIP:** Immunologists, physicians, medical and postgraduates, individuals involved in pharmaceutical development, and medical libraries

Print ISBN: 978-0-470-22723-7 (Cloth) US$TBA • MAR 2013 • 300PP

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Print ISBN: 978-3-527-32762-1 (Cloth) US$170.00 • FEB 2013 • 368PP

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**Risk Management Applications in Pharmaceutical and Biopharmaceutical Products Manufacturing**

**HAMD MOLLAH, HAROLD BASEMAN & MIKE LONG**

- Contains both the theory and practice of risk management (RM)
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Print ISBN: 978-0-470-55234-6 (Cloth) US$124.95 • MAR 2013 • 422PP

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**Drug Discovery & Development**

**Devalued and Distrusted**

*Can the Pharmaceutical Industry Restore its Broken Image?*

**JOHN L. LAMATTINA**

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- Addresses the progress that industry has made to measure risk and benefits of new medicines
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Print ISBN: 978-1-118-48747-1 (Paper) US$29.95 • FEB 2013 • 144PP
Drug Discovery
Practices, Processes, and Perspectives
JIE JACK LI & E. J. COREY

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Online ISBN: 978-1-118-35448-3

Nonclinical Safety Assessment
A Guide to International Pharmaceutical Regulations
WILLIAM BROCK & KENNETH HASTINGS

- Provides an international overview of the regulatory requirements for safety assessment for new drug approvals, including the World Health Organisation principles and regional variations
- Includes a list of resources such as guidelines, guidance, and authoritative non-governmental publications
- Offers insights into the future of non-clinical drug testing and approval, such as in silico methods and testing of nanoparticles

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Print ISBN: 978-0-470-74591-5 (Cloth) US$200.00 • MAR 2013 • 472PP
Online ISBN: 978-1-118-51700-0

Protein-Protein Interactions in Drug Discovery
ALEXANDER DÖMLING, RAIMUND MANNHOLD, HUGO KUBINYI & GERM FOLKERS

- Features a major focus for future drug development: previously thought of as “undruggable”, protein interaction surfaces have now been shown to be perfectly valid drug targets, with huge possibilities in all disease fields
- Reviews the growth area in big and small pharma, where companies of all sizes are rapidly developing their research capabilities in this field, hoping to find new blockbuster drugs for immunological disorders and many forms of cancer
- Provides a wide selection of case studies right out of the development pipeline of major pharma companies

READERSHIP: Medicinal chemists, pharmaceutical industry, biochemists, biophysicists, and biotechnologists
Print ISBN: 978-3-527-33107-9 (Cloth) US$210.00 • JAN 2013 • 344PP
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Drug Formulation & Delivery
Integrated Pharmaceutics
Antoine Al-Achi, Mali Ram Gupta & William Craig Stagner

- Provides a comprehensive picture of pharmaceutical product design, describing the science and art behind the concepts of dosage form development
- Includes fundamental physical pharmacy principles and their role in drug product design, including drug stability, rheology, and interfacial properties
- Addresses issues governing drug regulations of United States, European, and Japanese agencies
- Details new regulatory guidelines such as quality by design, design space analysis, process analytical technology, polymorphism characterisation, blend sample uniformity, stability protocols, and biopharmaceutical classification system

READERSHIP: Postgraduates and practitioners in: pharmaceutical sciences, physical pharmacy, drug formulation and design, biomedical and related fields
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PABLO STEINBERG

- Helps toxicologists understand high-throughput methods to evaluate chemical toxicity
- Covers methods, data generation, data analysis, and applications in risk assessment for major toxicological assays
- Guides readers in the validation and methods for each assay type
- Describes future directions for making assays cost-effective, streamlined, and easy to use
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DAVID A. PHENIX, SARAH DENNISON & FRED HARRIS

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- Presents a highly readable and systematically structured introduction to antimicrobial peptides, their structure, biological function and mode of action
- On the brink of industrial application: Peptide-based antibiotics are currently the most promising candidates for a new generation of anti-infectives and anticancer agents
- The final part of the book describes recent successes in the application of peptides as anticancer agents
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C. N. R. RAO & AJAY K. SOOD

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KETIL MOTZFELDT

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MALCOLM A. HALCROW

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Print ISBN: 978-1-118-09327-6 (Cloth) US$TBA • FEB 2013 • 300PP

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MIKE MARTIN KWABENA BOYSEN

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JIE JACK LI

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- Uses numerous case studies to illustrate the real world drug discovery applications

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Features:
✦ New coauthor! Scott Snyder is a well known researcher and instructor. Dr. Snyder received his PhD in 2004 from The Scripps Research Institute, working under K.C. Nicolaou. He later moved to Harvard to complete his postdoctoral fellowship, working in the lab of Professor E.J. Corey, one of the most respected contemporary chemists (and 1990 Nobel Laureate in Chemistry). Dr. Snyder brings his research into the classroom and now as coauthor, into this new edition of Organic Chemistry, 11e
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- Solved Problems including Strategy and Answer sections that guide students in their problem solving. Many of the new Solved Problems are paired with a related Review Problems
- Additional in text Review Problems are included to provide students with more opportunities to check their progress as they study
- Many more How To sections that give step by step instructions to guide students in performing important skills appear throughout the new edition of Solomons. New How To sections include How To Name Alkanes, Alkyl Halides, and Alcohols; the IUPAC System; How To Understand Additions to Alkenes; How To Write Proper Resonance Structures; and How To Predict the Products of a Diels–AlderReaction

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- Vol. 27 covers chemical literature and methodologies from the beginning of 2010 to the first half of 2011
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RAINER MAHRWALD

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- Provides new methodologies of this classic reaction, which are presented in the context of their deployment in total synthesis of natural products
- Represents the contributions of highly experienced authors and editor

READERSHIP: Organic chemists, chemists working with/on organometallics, catalytic chemists, natural products chemists, medicinal chemists, and libraries

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RICK L. DANHEISER

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- Challenges comfortable positions: Is photovoltaics good and nuclear bad? The authors show that it is not that simple
- Offers background knowledge in power generation and supply

READERSHIP: Anyone interested in the natural sciences, all natural scientists, chemists, physicists, politicians, journalists, libraries and the interested public

Print ISBN: 978-3-527-33409-4 (Paper) US$29.95 • JAN 2013 • 264PP
Online ISBN: 978-3-527-41216-7

**Proteins in Solution and at Interfaces**
Methods and Applications in Biotechnology and Materials Science (Previously Announced)
JUAN M. RUSO & ÁNGEL PINÉO

- Reviews the current state of the art applications and techniques in this growing and multidisciplinary field which spans physical chemistry to biotechnology to materials science
- Offers an exhaustive and modern analysis of the techniques used in protein characterization, guiding the reader to help him/her decide on the best technique to use in particular situations
- Addresses proteins from a soft matter perspective rather than the traditional biological perspective
- Discusses protein and protein aggregate structure, computational techniques for the study of protein structure, aggregation and adsorption, experimental methods aggregation and adsorption, proteins in non-standard conditions, and biotechnological applications of proteins

Print ISBN: 978-0-470-95251-1 (Cloth) US$194.95 • MAR 2013 • 524PP
Online ISBN: 978-1-118-52306-3
Photochemistry

Molecular Fluorescence
BERNARD VALEUR & MÁRIO NUNO BERBERAN-SANTOS

✦ This second edition of the well-established bestseller
✦ Completely updated and revised with approximately 30% additional material, including two new chapters on applications, which has seen the most significant developments
✦ Covers fundamental aspects, principles of instrumentation and practical applications
✦ This very sensitive and important method is applied in various areas of chemistry and life sciences

Print ISBN: 978-3-527-32846-8 (Paper) US$125.00 • APR 2013 • 592PP

Electrochemistry

Stress Corrosion Cracking of Pipelines
Y. FRANK CHENG

✦ Covers the fundamentals of stress corrosion cracking (SCC) including the definition of SCC, specific metal-environment combinations, Metallurgical aspects, Electrochemistry of SCC, etc
✦ Addresses the effect of SCC on the operation and safety of oil/gas pipelines
✦ Covers SCC in various environments including: acidic soil conditions, pipeline welds, and high-strength pipeline steels
✦ Details the management of pipeline stress corrosion cracking including the detection and mitigation of SCC Includes the authors most recent research on SCC of high-strength pipeline steel (X80 and X100 steels) used in sub-Arctic and Arctic regions

Print ISBN: 978-1-118-02267-2 (Cloth) US$TBA • APR 2013 • 304PP

Biochemistry (Chemical Biology)

Chemical Synthesis of Nucleoside Analouges
P. MERINO

✦ Discusses the application of synthetic methodologies to the preparation of compounds of biological interest including the synthesis of nucleic acids on pre-existing nucleic acid templates, assembling RNA or DNA
✦ Describes structural components of nucleosides and their modification
✦ Covers the full range of nucleoside analogues, including compounds with clinical applications
✦ Structural information is supported by spectral data
✦ Authoritative coverage by distinguished and well-known editor and authors in the field

Print ISBN: 978-1-118-00751-8 (Cloth) US$149.95 • FEB 2013 • 540PP
Online ISBN: 978-1-118-49808-8

Click Chemistry in Glycoscience
New Developments and Strategies
ZBIGNIEW J. WITCZAK & ROMAN BIELSKI

✦ The first book to discuss the application of click chemistry to glycoscience
✦ Includes general concepts of carbohydrate click chemistry and multiple pharmaceutical applications in glycoscience
✦ Presents modern chemical approaches to multiple targets in drug discovery processes
✦ Writers are experts in the area of click chemistry in carbohydrates

Print ISBN: 978-1-118-27533-7 (Cloth) US$124.95 • MAR 2013 • 372PP
Online ISBN: 978-1-118-52699-6
Lysophospholipid Receptors
Signaling and Biochemistry
JEROLD CHUN, TIMOTHY HLA, SARAH SPIEGEL & WOUTER MOOLENAAR

- The first definitive reference manual in the field of lysophospholipid signaling
- Must-have book for all academic, industrial, and medical school/hospital libraries
- Brings together the current body of knowledge on the topic, from the basic biochemistry of lysophospholipids to the current family of 10 distinct receptors
- Selected integration of key techniques allow the book to be used as a technical reference
- Addresses potential therapies in cardiology, respiratory, immunological, muscoskeletal, dermatological, gastrointestinal, nervous system disorders such as cancer, multiple sclerosis, pulmonary fibrosis and asthma, infertility, ischemia (stroke), as well as other organ disorders and conditions
- Marks the entry of possible new therapeutics targeted against special receptors: the investigational drug FTY720 or fingolimod is undergoing phase III trials for the oral therapeutic treatment of multiple sclerosis

Metabolomics in Practice
MICHAEL LÄMMERHOFER & WOLFRAM WECKWERTH

- Features the next big breakthrough in bioanalysis: metabolomics is both the most demanding and the most powerful “omics” technology in the modern biosciences
- Offers insights and advice that will help to clear the hurdles in setting up and running a successful metabolomics analysis
- Addresses the key data quality issues by systematically covering the entire workflow, from sample preparation to data processing

Understanding Diabetes
A Biochemical Perspective
R. F. DODS

- Provides easily understandable explanations of diabetes, the seventh leading cause of death, from a biochemical perspective
- Includes glossaries, footnotes, and DOI references to external resources within each chapter
- Addresses a serious health problem worldwide, with a high mortality rate as well as high costs to manage the disease
- Includes insights to diagnosis, which may explain why the disease is so widely prevalent
- Written in a textbook format, with objectives, key concepts, exercises and problems, a glossary, and a bibliography at the end of every chapter
- Highly suitable for clinical chemists and medical technologies at the community, undergraduate, and graduate levels, as well as the general public for insights into this prevalent disease

Biomolecules (DNA, RNA, Peptides, etc.)

Handbook of RNA Biochemistry
2nd Edition
ROLAND K. HARTMANN, ALBRECHT BINDEREIF, ASTRID SCHÖN & ERIC WESTHOF

- 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
- Broad scope of the book allows the treatment of specialized methods side by side with basic biochemical techniques, making the book a real treasure trove for every researcher experimenting with RNA

Readership: Molecular biologists, biochemists, gene technologists, cell biologists, biotechnologists

Print ISBN: 978-3-527-32764-4 (Cloth) US$460.00 • JAN 2013 • 1300PP
Online ISBN: 978-3-527-64706-4
Neurochemistry

**Metal-Based Neurodegeneration**
*From Molecular Mechanisms to Therapeutic Strategies, 2nd Edition*
ROBERT CRICHTON & ROBERTA WARD

- A comprehensive survey authored by two of the leading names in this field
- Up-to-date information on the molecular mechanisms of metal-based neurodegenerative diseases such as Parkinson, Alzheimer, Creutzfeld-Jacob, Huntington, etc
- Presented in full colour
- Updated to reflect the recent upsurge of interest and findings in this field
- Significantly expanded with twice the extent of the first edition
- New chapter on ageing and mild cognitive disorders, -induced brain damage, with an expanded discussion of oxidative stress and expanded summary chapter on current and future therapeutic strategies

Print ISBN: 978-1-119-97714-8 (Cloth) US$210.00 • APR 2013 • 448PP
Online ISBN: 978-1-118-55348-0

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**Protein Science**

**Amyloid Fibrils and Prefibrillar Aggregates**
*Molecular and Biological Properties*
DANIEL ERIK OTZEN

- Establishes the fact that Neurodegenerative disorders such as Alzheimer’s and Parkinson’s disease are already a leading cause of illness in the world’s ageing population, yet are still without any causative treatment
- Features the formation and role of protein fibrils as one of the main scientific frontiers in biochemistry
- Serves as the first reference on the topic that incorporates recent breakthroughs in amyloid research

READERSHIP: Biochemists, molecular biologists, neurobiologists, neurophysiologists, and practitioners in the pharmaceutical Industry

Print ISBN: 978-3-527-33200-7 (Cloth) US$190.00 • FEB 2013 • 464PP
Online ISBN: 978-3-527-65418-5

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**Fusion Protein Technologies for Biopharmaceuticals**
*Applications and Challenges*
STEFAN R. SCHMIDT

- Covers the major types of therapeutic fusion proteins: antibody, multifunctional, T-cell inhibitors
- Compares proven and emerging fusion protein technologies
- Describes approaches to develop, deliver, improve stability of fusion proteins
- Includes success stories of marketed drugs
- Reviews preclinical and clinical research into novel fusion proteins
- Discusses challenges – immunogenicity, production, patents, and commercial markets

Print ISBN: 978-0-470-64627-4 (Cloth) US$194.95 • FEB 2013 • 664PP
Online ISBN: 978-1-118-35459-9

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**Protein Oxidation and Aging**
TILMAN GRUNE, BETUL CATALGOL, TOBIAS JUNG & VLADIMIR UVERSKY

- Reflects increasing demand as the elderly population segment of society increases
- First book to address the aspect of aging that results from protein disturbances following oxidative stress
- Discusses strategies for using all the major techniques that can be used to analyze protein oxidation
- Explores how protein oxidation products can be biomarkers of aging
- Addresses debilitating protein-related diseases including Alzheimer’s, Parkinson’s, cardiovascular disease, diabetes, and cancer

Print ISBN: 978-0-470-87828-6 (Cloth) US$149.95 • DEC 2012 • 524PP
Online ISBN: 978-1-118-49303-8
Enzymes & Receptors

Evaluation of Enzyme Inhibitors in Drug Discovery
A Guide for Medicinal Chemists and Pharmacologists, 2nd Edition
ROBERT A. COPELAND

- Provides a clear, easy to read guide to the quantitative analysis of enzyme inhibition
- Designed specifically for medicinal chemists and pharmacologists in their analysis of enzyme-inhibitor interaction
- Offers expanded coverage and improved descriptions of topics covered in the first edition; two new chapters are added, addressing drug-target residence time and quantitative biochemistry, respectively
- Includes five new appendices in this edition, providing useful data on measurements, constants, isotopes, chemical prefixes, and chemical functionalities
- Authored by the pioneer of the concept of the drug-target residence time, a concept widely adopted in the biotechnology and pharmaceutical industry today

Print ISBN: 978-1-118-48813-3 (Cloth) US$134.95 • APR 2013 • 592PP
Online ISBN: 978-1-118-54039-8

General & Introductory Food Science & Technology

Advances in Food Science and Technology
Volume 1
SABU THOMAS, LAURA B. ITURRIAGA, PABLO DANIEL RIBOTTA & P. M. VISAKH

- Comprehensively reviews research on new developments in all areas of food chemistry/science and technology
- Covers topics such as food safety objectives, risk assessment, quality assurance and control, good manufacturing practices, food process systems design and control and rapid methods of analysis and detection, as well as sensor technology, environmental control and safety
- The first volume focuses on food chemistry and examines chemical and mechanical modifications to generate novel properties, functions, and applications

Print ISBN: 978-1-118-12102-3 (Cloth) US$174.95 • APR 2013 • 450PP

Microbiology, Food Safety & Security

Improving Import Food Safety
WAYNE ELLEFSON, LORNA ZACH & DARRYL SULLIVAN

- A valuable reference detailing information for ensuring safety of imported foods and ingredients
- Covers emerging risks and solutions in the global food supply chain
- Addresses critical and contemporary issues, such as traceability, rapid microbiological methods, supplier management, food defense, counterfeit product and food fraud
- Highlights current practices and recommends processes going forward

Online ISBN: 978-1-118-46429-8

Food Processing, Production & Manufacture

Food and Drink – Good Manufacturing Practice
A Guide to its Responsible Management (GMP6)
LOUISE MANNING

- Comprehensive: comprises both general guidance and food sector-specific requirements for good manufacturing practice
- Covers essential legislation: a ‘must have’ for anyone in a managerial or technical capacity concerned with the manufacture, storage and distribution of food and drink
- Newly updated: incorporates all the most recent developments and changes in UK and EU law
- Concise: a readable and accessible reference for busy managers in the food industry

Print ISBN: 978-1-118-31820-1 (Paper) US$160.00 • JAN 2013 • 272PP
**Dairy Food**

**Advances in Dairy Ingredients**

*Geoffrey W. Smithers & Mary Ann Augustin*  
(Previously Announced)

- Links good science understanding of the dairy system with successful commercial outcomes
- Documents recent advances in dairy ingredients that impact food product development
- International collection of dairy ingredients experts serve as editors and authors
- Sound scientific advice on incorporating dairy ingredients into food formulations
- Describes science and technology of functional and innovative dairy ingredients


**Membrane Processing**

*Dairy and Beverage Applications*

*Adnan Tamime*

- Gives an overview of the membrane filtration techniques and applications for dairy and beverage products
- Covers the four main techniques of membrane filtration – microfiltration, ultrafiltration, nanofiltration and reverse osmosis
- Includes dedicated chapters that cover dairy and beverage applications in detail, including milk, cheese whey, mineral waters, fruit juices, sports drinks, beers, wines and spirits
- The latest title in the Society of Dairy Technology Technical Series

READERSHIP: Scientists and technologists involved in the manufacture and quality control of dairy products, soft drinks, alcoholic beverages and distilled spirits, membrane filtration equipment manufacturers and students of food sciences

Print ISBN: 978-1-444-33337-4 (Cloth) US$199.99 • JAN 2013 • 384PP  
Online ISBN: 978-1-118-45700-9

**Sustainable Dairy Production**

*Peter de Jong*

- Offers a comprehensive overview of the state of the art technologies in sustainable dairy production
- Helps the industry to develop more sustainable dairy products through new technologies, implementing life cycle analysis, and upgrading and optimising 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

Print ISBN: 978-0-470-65584-9 (Cloth) US$195.00 • MAR 2013 • 272PP  
Online ISBN: 978-1-118-48945-1

**Fruit & Vegetable**

**Dried Fruits**

*Phytochemicals and Health Effects*  
(Previously Announced)

*Cesarettin Alasalvar & Fereidoon Shahidi*

- Serves as the first book to cover fundamental research and development in the field of dried nuts
- Describes the nutritional compositions, health effects, bioactives and phytochemical profiles of dried fruits
- Examines apricots, dates, figs, prunes, raisins, berries, pomes, drupes and numerous tropical fruits
- Represents the works of an international team of respected editors and authors

READERSHIP: Researchers and professionals in the nutraceutical and functional food industries, post-harvest physiologists, food chemists, dried fruit processors and traders, food companies, nutritionists and dietitians, students, and libraries

Print ISBN: 978-0-813-81173-4 (Cloth) US$199.99 • JAN 2013 • 532PP  
Online ISBN: 978-1-118-46466-3
Meat, Fish & Poultry

Butchery & Sausage-Making For Dummies
TIA HARRISON

- With easy-to-follow instructions and illustrations, Butchery & Sausage-Making For Dummies offers readers a look at how to butcher poultry, rabbit, beef, pork, lamb, and goats.
- The book will also explore sausage-making, with tips and recipes, and will look at preserving meat through curing and smoking.
- Butchery & Sausage Making For Dummies is an invaluable resource for home cooks interested in being more responsible about their meat, or those that are looking to save money and enjoy healthier alternatives to what's found in their local grocery store.


Eating Meat
History and Consequences of Modern Carnivory
VACLAV SMIL

- A wide-ranging and interdisciplinary examination and critique of meat consumption.
- Examines the environmental, nutritional and economic consequences of meat eating from a global perspective.
- Addresses crucial issues around the sustainability of meat production in a world with a growing population and shrinking land and water resources.
- Written by one of the world's most influential thinkers on energy, sustainability and the environment, named one of the Top 100 Global Thinkers by Foreign Policy in 2010.

Print ISBN: 978-1-118-27872-7 (Paper) US$39.95 • APR 2013 • 280PP
Online ISBN: 978-1-118-27871-0

Functional Foods & Neutraceuticals

Bio-Nanotechnology
A Revolution in Food, Biomedical and Health Sciences
DEBASIS BAGCHI, MANASHI BAGCHI, HIROYOSHI MORIYAMA & FEREIDOON SHAHIDI

- A comprehensive review of the state of the art of one of the key technologies of the 21st century.
- Emphasis on the diverse applications in food and nutrition sciences, biomedicine, agriculture and other fields.
- The book features 34 chapters arranged into eight sections. Dedicated section examines potential safety issues around these new technologies.

Print ISBN: 978-0-470-67037-8 (Cloth) US$299.95 • JAN 2013 • 832PP

General & Introductory Materials Science

Inorganic Materials Science
JOHN N. LALENA

- Highlights the interdisciplinary nature of inorganic materials science.
- Covers the entire structure/property/processing/performance materials pyramid.
- Presents inorganic materials science as an interdisciplinary field, providing students and professionals of different backgrounds with useful information they might not have been exposed to.
- Discusses materials characterisation techniques, materials applications, and end-of-life issues.

READERSHIP: Advanced engineering and materials science undergraduates, first- or second-year postgraduates in inorganic/physical chemistry/materials science, materials scientists, and inorganic and solid-state chemists.

Print ISBN: 978-0-470-40488-1 (Cloth) US$TBA • MAR 2013 • 864PP
Composite Membranes for Advanced Applications in DMFC and PEMFC

Analysis of the Performance
VICTOR MORENO COMPAÑ, SERGIO ROMANA MOLLÁ & ANDRÍO ANDREU BALADO

- This book reports the preparation and characterization of solution-cast composite membranes and nanofiber reinforced membranes obtained by electrospinning technique.
- Covers the analysis techniques of FTIR, DMTA, permeability and conductivity characterization.
- The performance of fuel cells containing different membrane-electrode assemblies (MEAs) for PEMFC application is studied and the kinetic parameters governing the voltage dependence on current density estimated.
- An analysis of the methanol permeability in composite materials was also investigated and compared with pristine Nafion in order to study the behavior for direct methanol fuel cell (DMFC) applications.

Bio-aggregate-based Building Materials

Applications to Hemp Concretes
S. AMZIANE

- Presents an overview of the knowledge on construction materials made from plant particles.
- Explains building materials that contain main raw material that is renewable, recyclable and easily available.
- Focuses on particles and as well on fibres issued from hemp plant.

Structural Materials and Processes in Transportation

MATTIAS BUSSE, AXEL HERMANN, KAMBIZ KAYVANTASH & DIRK LEHMUS

- Features contributions from aerospace centres, Fraunhofer Institutes, car manufacturers and fibre institutes.
- Presents insights of researchers on the latest developments of novel materials.
- Provides information on engineering materials for rail, road and air transport.

Optical and Non-Linear Optical Materials

Organic Optoelectronics
WENPING HU, FENGLIAN BAI, XIONG GONG, XIAOWEI ZHAN, HONGBING FU & THOMAS BJORNHOLM

- Covers all aspects of the field, with an emphasis on materials synthesis, physicochemical properties, and device fabrication.
- Serves as a handy reference for both researchers and those new to the field.
- Provides strong emphasis on applications, from field effect transistors, light-emitting diodes, and photonics, to the emerging areas of solar cells and thermoelectric power sources.
- Represents the works of authors that are internationally recognised experts in the field with academic as well as industrial expertise.


Print ISBN: 978-1-848-21404-0 (Cloth) US$124.95 • NOV 2012

Print ISBN: 978-3-527-32787-4 (Cloth) US$200.00 • MAR 2013 • 500PP

Print ISBN: 978-3-527-32968-7 (Cloth) US$175.00 • JAN 2013 • 536PP
Corrosion Analysis of Reliability and Quality Control
Fracture Mechanics Volume 1
AMMAR GROUS

- This volume is mainly centered on a vast range of the laws of statistical distributions met in diverse scientific and technical domains
- These laws are indispensable to understand the probability behavior of components and mechanical structures exploited in two other volumes dedicated to the reliability and to the quality control
- The laws of distribution of diverse models and the tests of adequacy suited to confirm or counter the hypothesis of the law in question, namely the tests of Pearson (χ²), of Kolmogorov-Smirnov (KS) and many other relevant tests are presented
- This volume distinguishes itself from the other bibliographical works by its originality to present an educational approach which aims at helping the users both in the specialized schools and in the industry

Print ISBN: 978-1-848-21440-8 (Cloth) US$TBA • JAN 2013

Applied Reliability
Fracture Mechanics Volume 2
AMMAR GROUS

- The science of engineering is fraught with uncertainties such as experimental data cost, random errors in experiment design etc
- This volume is centered on a vast range of statistical distributions met in reliability to allow the users to understand the main methods
- The aim is to run statistical measures, to present a report of enhanced measures in mechanical reliability and to evaluate the reliability of the repairable or not repairable systems
- The book approaches theory and practice based on these themes: Criteria of failures; Bayesian Applied Probability; Chains of Markov; Simulation of Monte Carlo and finally many solved cases of studies


Applied Quality Control
Fracture Mechanics Volume 3
AMMAR GROUS

- This book is mainly centered on a vast range of the laws of statistical distributions met in diverse scientific and technical domains
- These laws are indispensable to understand the probability behavior of components and mechanical structures exploited in two other volumes dedicated to the reliability and to the quality control
- The laws of distribution of diverse models and the tests of adequacy suited to confirm or counter the hypothesis of the law in question, namely the tests of Pearson (χ²), of Kolmogorov-Smirnov (KS) and many other relevant tests are presented
- This volume distinguishes itself from the other bibliographical works by its originality to present an educational approach which aims at helping the users both in the specialized schools and in the industry
- Several cases of sampling plans and its applications in the industries are presented with several solved case of studies upon the main indicators of capability according to ISO / TS 16949, ISO 8258 and FORD


Corrosion of Steel in Concrete
LUCA BERTOLINI, BERNHARD ELSENER, PIETRO PEDEFERRI, ELENA REDAELLI & ROB B. POLDER

- Proven concept, new developments: all sections have been thoroughly revised, updated and expanded, where of about fifteen percent are absolutely new
- Additional content includes: limestone cements, reliability centered maintenance methods, performance-based design of concrete, modern aspects of cathodic protection, new European rules and regulations
- Invaluable reference: the book is a self-contained treatment for civil and construction engineers, material scientists, advanced students and architects concerned with development and maintenance of reinforced concrete structures Immediate benefit: the reader gets the knowledge, tools, and methods to understand the phenomenon of corrosion in reinforced concrete and to prevent it or keep it within acceptable limits

Print ISBN: 978-3-527-33146-8 (Cloth) US$190.00 • APR 2013 • 434PP
Online ISBN: 978-3-527-65169-6
The new edition of this groundbreaking monograph is the first text to review the subject of ALD comprehensively from a practical perspective.

It covers ALD's application to microelectronics (MEMS) and nanotechnology; many important new and emerging applications; thermal processes for ALD growth of nanometer thick films of semiconductors, oxides, metals and nitrides; and the formation of organic and hybrid materials.

Coverage includes the fundamental aspects of ALD such as films and materials, as well as the applications, such as microelectronics (MEMS), nanotechnology, coatings, solar cells, etc.

Also includes how ALD can be used in roll-to-roll manufacturing.

Covers the latest research developments.

Addresses many different aspects of wettability.

Brings out current and potential applications of the phenomenon of wettability.

READERSHIP: Scientists and researchers in academia and individuals in a host of industries, including textiles, printing, coatings, medical, nanotechnology, biotechnology, and adhesive bonding.

The book aims to describe the martensitic phase transformation and the process of martensite platelets reorientation.

These two keys permit to introduce the main features associated to the shape memory alloys behavior i.e. one way shape memory effect, pseudoelasticity, training and recovery.

Particular attention is paid to the thermomechanical modeling at the macroscopic scale and to applications.

A chapter is devoted to magnetic shape memory alloys.

Prestigious author: Michel Barsoum is the leading figure in MAX phase research.

Broadens the materials science horizon: researchers and developers alike gain insight into these fascinating new materials which blur the classical boundary between metals and ceramics.

Comprehensive yet compact: succinctly presents and explains all important properties of the MAX phases that are necessary to understand and apply these materials.

One-stop resource: brings together, in a unified, self-contained manner, all the information on MAX phases that is usually found only scattered in the journal literature.
Materials for Energy Systems

**Metal Chalcogenide Semiconductor Nanostructures and Their Applications in Renewable Energy**

A. Qurashi

- Focuses on metal chalcogenide semiconductor nanostructures for renewable energy applications
- Shows the properties and synthesis of a class of nanomaterials essential to renewable energy manufacturing

**Readership:** Students, scientists, engineers, researchers working on nanomaterials-based energy aspects associated with chemistry, physics, materials science, electrical engineering, energy science and technology, and environmental science

Print ISBN: 978-1-118-23791-5 (Cloth) US$TBA • FEB 2013 • 350PP

**Photocatalysis and Water Purification**

Max Lu & Pierre Pichat

- Timely and sustainability at its best: green technology and energy-saving potential
- Combination of two leading topics attracts broad target group: Photocatalysis and water purification attract both materials scientists, water chemists, environmental scientists and chemical engineers alike
- A must-have read for established researchers and novices: From the fundamentals of photocatalysis and water treatment to the recent developments this book details all important facts in depth
- Growing industrial interest: growing research activity in photocatalysis and water treatment

Print ISBN: 978-3-527-33187-1 (Cloth) US$175.00 • FEB 2013 • 412PP

**Encapsulation Technologies**

Vikas Mittal

- The book includes all the recent advancements in encapsulation technology, such as physical, chemical, mechanical technologies
- The featured technologies in the book are compiled for use in different industries dealing with food, pharmaceutical, agricultural, and cosmetic materials
- The book features contributors who are considered to be some of the best in the world

Print ISBN: 978-1-118-34455-2 (Cloth) US$TBA • APR 2013 • 400PP
Shape-Memory Polymers
Industrial Applications of Smart Materials
E. S. W. KONG

- Provides comprehensive coverage of shape-memory polymers (SMPs), a growing area within “smart materials” research
- Offers a good introduction to the topic and the nature of shape-memory effects and superelasticity
- Gives an in-depth look at the properties, mechanics, and characterisation of SMPs and thermoplastic elastomers
- Features a wide range of applications for materials such as bioplastics and biomedical devices, textiles and fabrics, optical, electronic, and mechanical parts for control systems, cosmetics and beauty products, and automotives

READERSHIP: Postgraduates and professionals in academia and industry in the following fields: polymers, functional materials engineering including biomedical engineers, textiles/ fibres, plastics and rubber

Print ISBN: 978-0-470-04806-1 (Cloth) US$125.00 • MAR 2013 • 350PP

Plastics Additives and Testing
GANAPATHY SUBRAMANIAN (Previously Announced)

- A practical book for engineers and operators which discusses both inorganic and organic chemicals that are widely used as additives in plastics processing operations
- Written by a successful, international consultant with an excellent publishing track record, it combines plastics additives, testing and quality control
- Discusses how to utilize analytical techniques to improve plastics processing in order to manufacture quality products
- Content includes how to implement a reasonable balance between control requirements and parameters for improved processing method with respect to plastics additives in the manufacturing process

Print ISBN: 978-1-118-11890-0 (Cloth) US$144.95 • MAR 2013 • 350PP

Plastics Process Analysis, Instrumentation, and Control
NICK SCHOTT (Previously Announced)

- The book has a unique multidisciplinary perspective that spans across the combined plastics process, software, hardware, instrumentation and actuator requirements
- An essential reference for professionals in the plastics manufacturing industry or plastics conversion industry
- The author is a specialist in the field and has more than 38 years experience

Print ISBN: 978-1-118-07215-8 (Cloth) US$194.95 • APR 2013 • 600PP

Polymer Adhesion, Friction, and Lubrication
HONGBO ZENG

- Guides readers to understand the scratch, wear, and lubrication properties of polymers and the engineering applications of this knowledge
- Discusses applications in areas from biomedical research to automotive engineering
- Covers an important and dynamic subject of polymer engineering research
- Details experimental and theoretical methods like atomic force microscopy (AFM)
- The authors are among the leading specialists in their field

Print ISBN: 978-0-470-91627-8 (Cloth) US$194.95 • MAR 2013 • 776PP

ISBN 9780470048061
ISBN 9781118118900
ISBN 9781118072158
ISBN 9780470916278
Computer processing

**Computer Modeling for Injection Molding**
Simulation, Optimization, and Control  
*Previously Announced*

**HUAMIN ZHOU**

- Explains computer aided engineering (CAE) and simulation applied to the major polymer processing method injection molding
- Helps readers understand techniques in order to solve problems in advanced control, simulation, monitoring, and optimisation of the injection molding process
- Includes sections that explain typical problems, interpretation of simulation results, and resolution to problems, as well as case studies of successes and failures
- Describes implementation of computer innovations like parallel computing, acceleration method, and mesh free method in injection molding

**READERSHIP:** Plastic engineers, researchers, software engineers, mold designers, and injection molding machinery designers

Print ISBN: 978-0-470-60299-7 (Cloth) US$134.95 • NOV 2012 • 420PP
Online ISBN: 978-1-118-44488-7

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**Biopolymers**

**Handbook of Biopolymer-Based Materials**
From Blends and Composites to Gels and Complex Networks

**SABU THOMAS, DOMINIQUE DURAND, CHRISTOPHE CHASSENIEUX & P. JYOTISHKUMAR**

- First book to deal with processing, morphology, dynamics, structure, properties, applications and theory of biopolymers as well as their blends, composites, interpenetrating networks and gels
- An outstanding and comprehensive two volume resource for anyone involved in the field of eco-friendly biomaterials for advanced technologies
- Examines the current state of the art, new challenges, opportunities and applications
- Emphasizes micro- and nanostructured materials and their physical characterization
- Illustrates the use of biopolymers in health, medicine, food and cosmetics and is thus of direct relevance to these industries
- Selected leading researchers from industry, academia, government and private research institutions across the globe comprehensively review recent accomplishments in the field in individually contributed chapters
- Figures and tables available as supplementary powerpoint files

Print ISBN: 978-3-527-32884-0 (Cloth) US$355.00 • APR 2013 • 988PP
Online ISBN: 978-3-527-65245-7

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**Polymer Synthesis**

**Handbook of Polymer Synthesis, Characterization, and Processing**

**ENRIQUE SALDIVAR-GUERRA & EDUARDO VIVALDO-LIMA**

- Covers a broad range of polymer science topics such as synthesis, characterisation and processing
- Serves as a comprehensive introduction to polymer chemistry and materials
- Focuses on industrially-important polymers, analytical techniques, and formulation methods
- Contains chapters on step-growth, radical, and co-polymerisation; crosslinking and grafting; reaction engineering; emulsions characterisation methods as well as advanced technology applications

**READERSHIP:** Polymer scientists and engineers in industry, chemical engineers, materials scientists, postgraduates in polymer engineering or production programmes

Print ISBN: 978-0-470-63032-7 (Cloth) US$194.95 • FEB 2013 • 662PP
Online ISBN: 978-1-118-48079-3
Atomic Structure Prediction of Nanostructures, Clusters and Surfaces

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

- A comprehensive reference to the modeling of atomic structure of nanoscale systems
- A must-have for researchers working in the field of nanoscience as well as surface science
- Numerical recipes and model geometries help professionals using the techniques
- Top author team with long-standing collaborations at the forefront of research

Modeling and Prediction of Polymer Nanocomposite Properties

VIKAS MITTAL

- Covers all important aspects of one of the most widely used material classes, polymer composites
- Provides details of particular aspects of polymer nano composites relevant for researchers at universities and developers in commercial labs
- Puts forward an often neglected topic which covers how accurate modeling of the properties of polymer materials fosters the understanding of microscopic processes and macroscopic behaviour
- Emphasises the close connection between theory and experiment to optimise models and real life procedures alike

Microwaves in Nanoparticle Synthesis

SATOSHI HORIKOSHI & NICK SERPONE

- For the first time, this comprehensive handbook presents the emerging field of microwave technology for the synthesis of nanoparticles
- Divided into three parts: fundamentals, methods, and applications
- Covers topics including microwave theory, scale-up, microwave plasma synthesis, characterization, and more
- An important reference for academic researchers, and a resource for those in industry exploring the applications of nanoparticles in semiconductors, electronics, catalysis, sensors, and more

Nanomedicine for Drug Delivery and Therapeutics

AJAY K. MISHRA

- This book describes a broad area of nanomedicine which involves mainly applications, diseases, and diagnostics
- The scope of book is focussed on the broad area of research and applications in nanomedicine, drug delivery and therapeutics
- It presents both an overview of the fundamentals concepts as well as numerous applications in this quickly evolving multidisciplinary area of research and practice
- The comprehensive coverage provides researchers, academics, and health specialists with a great tool that includes techniques applicable to various uses
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