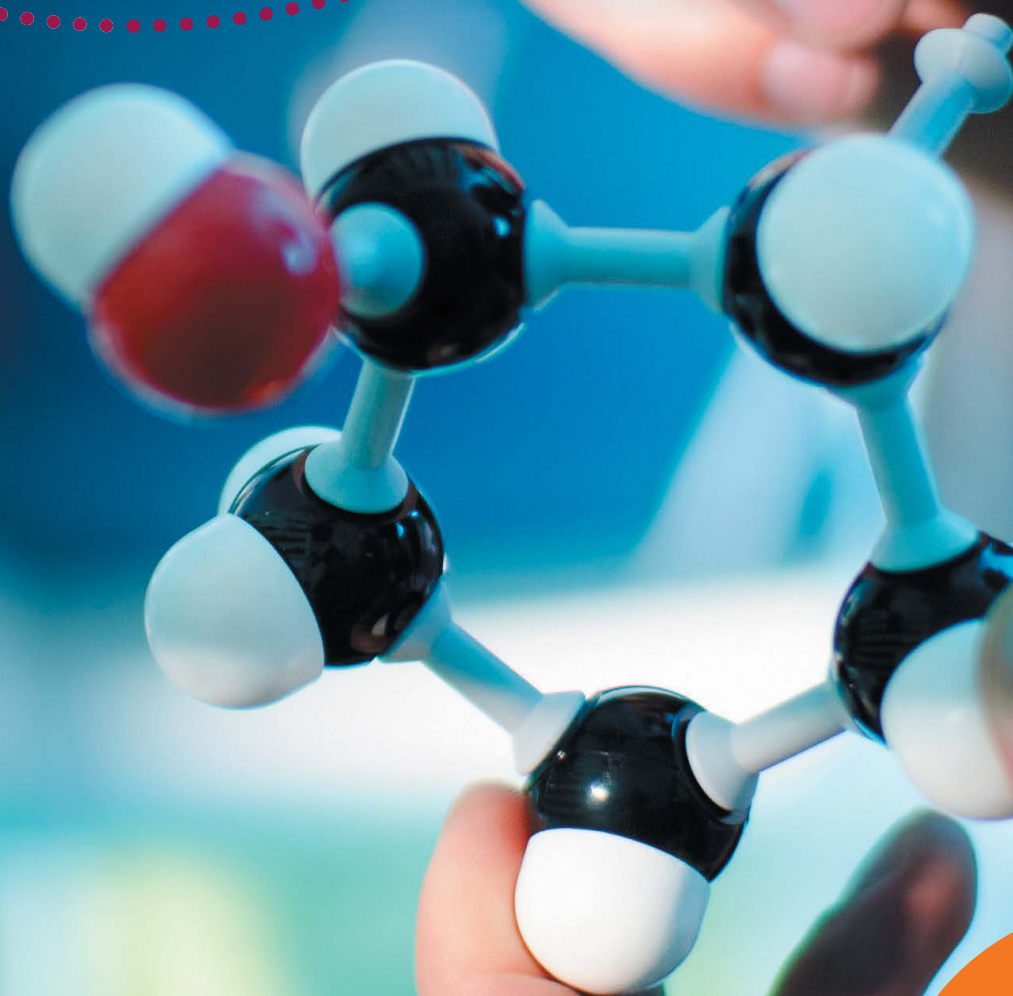


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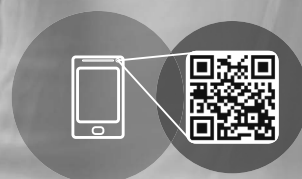
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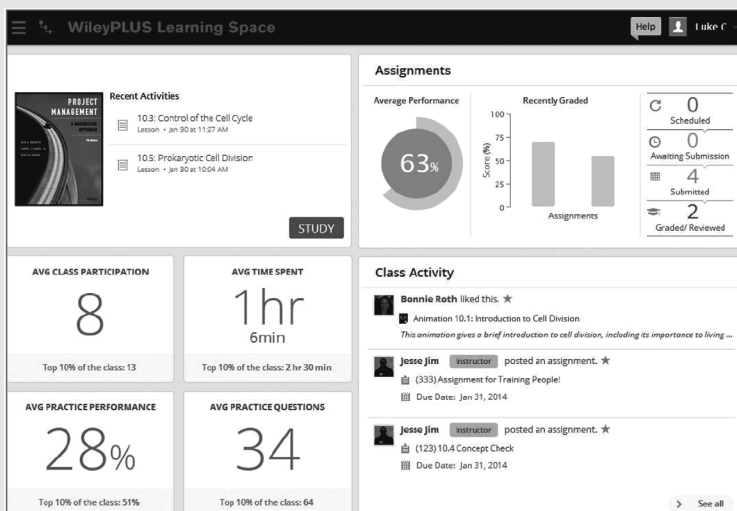
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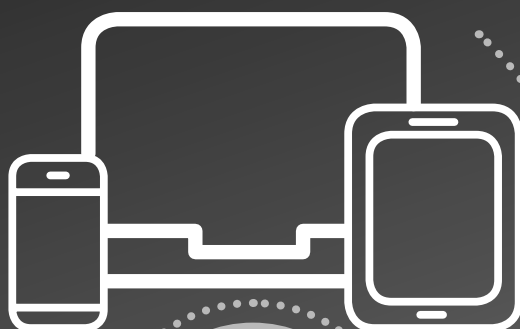
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Table of contents

Chemical Engineering 1

General & Introductory Chemical Engineering.....1

Process Safety.....1

Chemistry..... 2

Analytical Chemistry2

Forensics2

Lab Automation & Miniaturization3

Mass Spectrometry3

Microscopy.....5

Biochemistry (Chemical Biology)5

Catalysis6

Homogeneous Catalysis6

Computational Chemistry & Molecular Modeling.....7

Chemical Informatics.....7

Batteries & Fuel Cells.....7

Electrochemistry8

Water Chemistry8

Environmental Chemistry8

Biotechnology (Chemistry)9

Paints, Pigments, Coatings, Dyes9

Methods - Synthesis & Techniques9

Organic Chemistry.....11

Biopharmaceuticals & Pharmaceutical Biotechnology11

Drug Discovery & Development.....12

Pharmaceutical & Medicinal Chemistry.....12

Physical Chemistry13

Sustainable Chemistry & Green Chemistry.....13



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Food Science & Technology14

Food Chemistry14

Food Processing, Production & Manufacture.....14

Sensory Science.....14

Dairy Food15

Fruit & Vegetable15

Functional Foods & Nutraceuticals15

Ingredients16

Oils & Fats16

General & Introductory Food Science & Technology.....16

Microbiology, Food Safety & Security.....17

Material Science.....18

Composites18

General & Introductory Materials Science.....18

Magnetic Materials18

Nanomaterials.....19

Thin Films, Surfaces & Interfaces.....19

Polymer Science & Technology20

Biopolymers20

Polymer Processing.....21

Polymer Science & Technology General21

Polymer Synthesis.....22

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General & Introductory Chemical Engineering

Process Modeling and Simulation for Chemical Engineers

Theory and Practice

Simant Ranjan Upreti

- Essential to all areas of chemical engineering, for the simulation of physical and chemical processes
- Applications include mass transfer, heat transfer, thermodynamics, process control, equipment design, and plant design
- Explains the rationale, usage and applications of mathematical modeling
- Enables the reader to develop mathematical models of various processes undergoing changes in time and (or) space
- Explains the advanced simplification techniques of scaling, ordering, model reduction, and model linearization
- Enriched with relevant chemical engineering examples, figures and schematics
- Includes chapter end problems, with solutions available on companion website



Print ISBN: 978-1-118-91468-7 (Cloth) US\$115.00 • May 2017 • 368PP

Process Safety

Essential Practices for Developing, Strengthening and Implementing Process Safety Culture

CCPS (Center for Chemical Process Safety)

This book provides an overview for understanding an organization's working culture and provides guidance on why a good culture is essential for safe, cost-effective, and high quality operations.

It includes a wide range of topics such as defining process safety culture (history, organizational impact and benefits, and role of organizational leadership at all levels); core principles (maintain *sense of vulnerability*, combat *normalization of deviance*, establish an *imperative for safety*, perform valid/timely *hazard/risk assessments*, ensure *open and frank communications*, learn and advance the *culture*); leadership for process safety culture within the organizational structure; applications and work processes; and sustaining process safety culture improvements, warning signs of cultural degradation and remedies, use of applications discussed in earlier chapters, the importance of using diverse methods over time to assess culture.

**Essential
Practices for
Developing,
Strengthening
and
Implementing
Process Safety
Culture**



Print ISBN: 978-1-119-01015-9 (Cloth) US\$TBA • May 2017 • 208PP

Guidelines for Process Safety in Chemical Laboratories and Pilot Plants

CCPS (Center for Chemical Process Safety)

This book provides guidance on "what" can be done from a management systems perspective to identify hazards and manage risks of "loss of containment" events in chemical laboratories and pilot plants. It provides examples of "how to" implement such practices and descriptions of a range of typically encountered process safety hazards typical controls based on current best practices.

- Includes case studies from 16 companies of actual incidents and lessons learned from these incidents
- Effective in helping manage risks in laboratories and pilot plant to prevent loss of containment events and mitigate consequences should releases occur
- Useful for organization involved in many types of unit operations or processes including Physical mixing, Chemical transformations, Physical separation and purification, and Changes in physical state, concentration, or form

**Guidelines for
Process Safety
in Chemical
Laboratories
and Pilot
Plants**



Print ISBN: 978-1-119-01013-5 (Cloth) US\$124.95 • May 2017 • 400PP

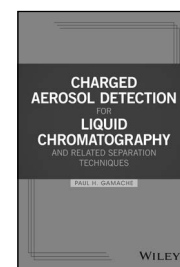
Analytical Chemistry

Charged Aerosol Detection for Liquid Chromatography and Related Separation Techniques

Paul H. Gamache (Previously Announced)

- This is the first book dedicated to charged aerosol detection for HPLC and related techniques. It provides detailed insight into the actual and potential applications of charged aerosol detection across a wide range of industries, thereby enabling improved detection of a range of analytes
- Discussing both advantages and limitations, it relates the principles, practical uses, and applications from simple to advanced topics
- The text includes many practical examples, serving as an important tool for scientists seeking to obtain the most effective and efficient use of charged aerosol detection

Print ISBN: 978-0-470-93778-5 (Cloth) US\$134.95 • Jul 2017 • 448PP



Dielectrophoresis

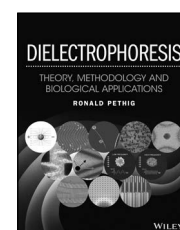
Theory, Methodology and Biological Applications (Previously Announced)

Ronald Pethig

Comprehensive coverage of the basic theoretical concepts and applications of dielectrophoresis from a world-renowned expert.

- Features hot application topics including: Diagnostics, Cell-based Drug Discovery, Sensors for Biomedical Applications, Characterisation and Sorting of Stem Cells, Separation of Cancer Cells from Blood and Environmental Monitoring
- Focuses on those aspects of the theory and practice of dielectrophoresis concerned with characterizing and manipulating cells and other bioparticles such as bacteria, viruses, proteins and nucleic acids
- Features the relevant chemical and biological concepts for those working in physics and engineering

Print ISBN: 978-1-118-67145-0 (Cloth) US\$140.00 • Apr 2017 • 448PP



Fluorescence Microscopy

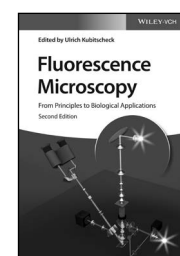
From Principles to Biological Applications, 2nd Edition (Previously Announced)

Ulrich Kubitschek

This second edition features new chapters and a subsequent focus on super-resolution and single molecule microscopy as well as an expanded introduction, making it even more suitable for teaching and training courses. Each chapter is written by a renowned expert in the field, and has been thoroughly revised to include more textbook features, such as a student-friendly summary.

- The reference work on fluorescence microscopy now in its second edition
- A strong focus on superresolution and single molecule microscopy
- The companion website features additional teaching material including video material
- Many contributions are written by pioneers in the field with an outstanding international reputation

Print ISBN: 978-3-527-33837-5 (Cloth) US\$165.00 • Jun 2017 • 496PP



Forensics

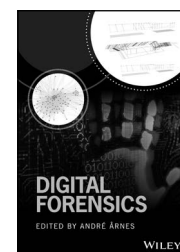
Digital Forensics

André Arnes



- The definitive text for students of digital forensics, as well as professionals looking to deepen their understanding of an increasingly critical field
- Encompasses all aspects of the field, including methodological, scientific, technical and legal matters
- Based on the latest research, it provides novel insights for students, including an informed look at the future of digital forensics
- Includes test questions from actual exam sets, multiple choice questions suitable for online use and numerous visuals, illustrations and case example images
- Features real-world examples and scenarios, including court cases and technical problems, as well as a rich library of academic references and references to online media

Print ISBN: 978-1-119-26238-1 (Paper) US\$80.00 • Aug 2017 • 386PP

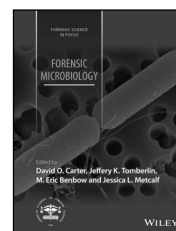


Forensic Microbiology

David O. Carter, Jeffery K. Tomberlin, M. Eric Benbow & Jessica L. Metcalf

- *Forensic Microbiology* focuses on newly emerging areas of microbiology relevant to medicolegal and criminal investigations: postmortem changes, establishing cause of death, estimating postmortem interval, and trace evidence analysis
- Recent developments in sequencing technology allow researchers, and potentially practitioners, to examine microbial communities at unprecedented resolution and in multidisciplinary contexts
- This detailed study of microbes facilitates the development of new forensic tools that use the structure and function of microbial communities as physical evidence

Print ISBN: 978-1-119-06255-4 (Cloth) US\$120.00 • Jun 2017 • 432PP



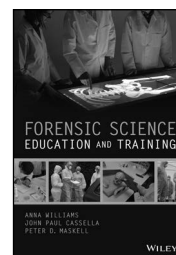
Forensic Science Education and Training

Anna Williams, John Paul Cassella & Peter D. Maskell

This is a comprehensive and innovative guide to teaching, learning and assessment in forensic science education and practitioner training.

- Chapter summary and further reading provided for each chapter
- Student exercises for mock crime scene and disaster scenarios
- Templates for online discussion boards and forums for teaching purposes
- Critically evaluates current teaching practices
- Recommends innovative methods of engaging students, practitioners and lay people
- Examines existing and proposed methods of assessing competence
- Written by a team of leading experts with experience in a diverse range of teaching and training

Print ISBN: 978-1-118-68923-3 (Cloth) US\$95.00 • Jun 2017 • 328PP



Lab Automation & Miniaturization

Automation Solutions for Analytical Measurement

Theory, Concepts, and Applications

Heidi Fleischer & Kerstin Thurow

- The first book dedicated specifically to automated sample preparation and analytical measurements, this timely and systematic overview not only covers biological applications, but also environmental measuring technology, drug discovery, and quality assurance
- Following a critical review of realized automation solutions in biological sciences, the book goes on to discuss special requirements for comparable systems for analytical applications, taking different concepts into consideration and with examples chosen to illustrate the scope and limitations of each technique

Print ISBN: 978-3-527-34217-4 (Cloth) US\$119.95 • Aug 2017 • 250PP



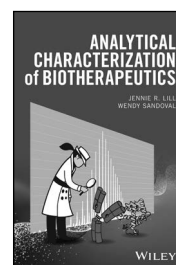
Mass Spectrometry

Analytical Characterization of Biotherapeutics

Jennie R. Lill & Wendy Sandoval

- This book serves as a guide to the myriad of analytical techniques available to researchers who are either curious about or involved in the characterization of therapeutic proteins and antigen reagents
- The book frames poignant questions necessitating attention during the design and delivery of a therapeutic protein, exposes analytical challenges that may occur when characterizing these molecules and also presents solutions
- From simple recombinant antigen & antibody characterization using standardized analytical tools and informatics solutions, to complex analyses for the increasing complexity of molecular designs such as antibody drug conjugates and bi-specific antibodies, the book helps researchers navigate through the history of the analysis tools & offer insight into some of the up and coming analytical solutions available

Print ISBN: 978-1-119-05310-1 (Cloth) US\$TBA • Aug 2017 • 352PP



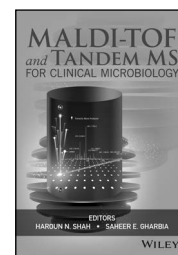
MALDI-TOF and Tandem MS for Clinical Microbiology

Haroun N. Shah & Saheer E. Gharbia (Previously Announced)

This book highlights the triumph of MALDI-TOF mass spectrometry over the past decade and provides insight into new and expanding technologies through a comprehensive range of short chapters that enable the reader to gauge their current status and how they may progress over the next decade.

- Covers many of the prevalent human and plant pathogens, including legionella, e.coli, c. difficile, etc.
- Consolidates current strengths of the MALDI technology and highlights new frontiers in tandem MS/MS
- Aimed at biomedical professionals and researchers involved in microbiology analysis, as well as early-stage researchers in clinical applications of mass spectrometry
- A comprehensive group of world-leading researchers presenting the applications of mass spectrometry in clinical microbiology
- Presents in vitro diagnostic protocols recognized by the FDA, Medicines and Healthcare Products Regulatory Agencies

Print ISBN: 978-1-118-96025-7 (Cloth) US\$160.00 • Jun 2017 • 616PP



Protein Carbonylation

Principles, Analysis, and Biological Implications (Previously Announced)

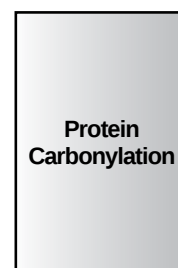
Joaquim Ros

Protein carbonylation has attracted the interest of a great number of laboratories since the pioneering studies at the Earl Stadtman's lab at NIH started in early 1980s.

Since then, detecting protein carbonyls in oxidative stress situations became a highly efficient tool to uncover biomarkers of oxidative damage in normal and altered cell physiology.

In this book, research groups from several areas of interest have contributed to update the knowledge regarding detection, analyses and identification of carbonylated proteins and the sites where these modifications occur.

Print ISBN: 978-1-119-07491-5 (Cloth) US\$174.95 • Jun 2017 • 352PP



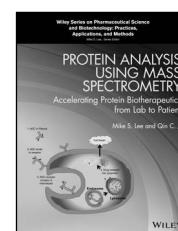
Protein Analysis using Mass Spectrometry

Accelerating Protein Biotherapeutics from Lab to Patient (Previously Announced)

Mike S. Lee & Qin C. Ji

- Presents Practical Applications of Mass Spectrometry for Protein Analysis and Covers Their Impact on Accelerating Drug Discovery and Development
- Covers both qualitative and quantitative aspects of Mass Spectrometry protein analysis in drug discovery
- Principles, Instrumentation, Technologies topics include MS of peptides, proteins, and ADCs, instrumentation in protein analysis, nanospray technology in MS protein analysis, and automation in MS protein analysis
- Details emerging areas from drug monitoring to patient care such as Identification and validation of biomarkers for cancer, targeted MS approaches for biomarker validation, biomarker discovery, and regulatory perspectives
- Brings together the most current advances in the mass spectrometry technology and related method in protein analysis

Print ISBN: 978-1-118-60519-6 (Cloth) US\$174.95 • Jun 2017 • 288PP

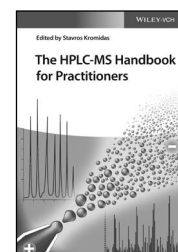


The HPLC-MS Handbook for Practitioners

Stavros Kromidas (Previously Announced)

- Filling the gap for an expert text dealing exclusively with the practical aspects of HPLC-MS coupling, this concise, compact, and clear book provides detailed information to enable users to employ the method most efficiently
- Following an overview of the current state of HPLC-MS and its instrumentation, the text goes on to discuss all relevant aspects of method development
- A chapter on tips and tricks is followed by user reports on the advantages — and pitfalls — of applying the method in real-life scenarios. The whole is rounded off by a look at future developments by renowned manufacturers

Print ISBN: 978-3-527-34307-2 (Cloth) US\$120.00 • Jul 2017 • 260PP



Microscopy

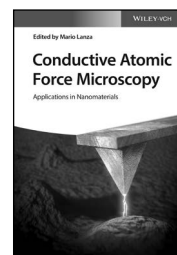
Conductive Atomic Force Microscope

Applications in Nanomaterials

Mario Lanza (Previously Announced)

- The first book to summarize the applications of CAFM as the most important method in the study of electronic properties of materials and devices at the nanoscale
- To provide a global perspective, the chapters are written by leading researchers and application scientists from all over the world and cover novel strategies, configurations and setups where new information will be obtained with the help of CAFM
- With its substantial content and logical structure, this is a valuable reference for researchers working with CAFM or planning to use it in their own fields of research

Print ISBN: 978-3-527-34091-0 (Cloth) US\$165.00 • Aug 2017 • 400PP



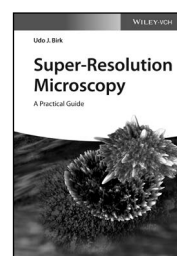
Super-Resolution Microscopy

A Practical Guide

Udo J. Birk

- This unique book on super-resolution microscopy techniques presents comparative, in-depth analyses of the strengths and weaknesses of the individual approaches
- It was written for non-experts who need to understand the principles of super-resolution or who wish to use recently commercialized instruments as well as for professionals who plan to realize novel microscopic devices
- Explaining the practical requirements in terms of hardware, software and sample preparation, the book offers a wealth of hands-on tips and practical tricks to get a setup running, provides invaluable help and support for successful data acquisition and specific advice in the context of data analysis and visualization

Print ISBN: 978-3-527-34133-7 (Paper) US\$107.95 • Aug 2017 • 350PP



Biochemistry (Chemical Biology)

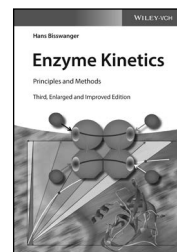
Enzyme Kinetics

Principles and Methods, 3rd, Enlarged and Improved Edition

Hans Bisswanger

- Now in full color for a more intuitive learning experience, this new edition of the long-selling reference also features a number of new developments in methodology and the application of enzyme kinetics
- Starting with a description of ligand binding equilibria, the experienced author goes on to discuss simple and complex enzyme reactions in kinetic terms
- Special cases such as membrane-bound and immobilized enzymes are considered, as is the influence of external conditions, such as temperature and pH value
- The final part of the book then covers a range of widely used measurement methods and compares their performance and scope of application
- With its unique mix of theory and practical advice, this is an invaluable aid for teaching as well as for experimental work

Print ISBN: 978-3-527-34251-8 (Cloth) US\$167.95 • Jun 2017 • 352PP



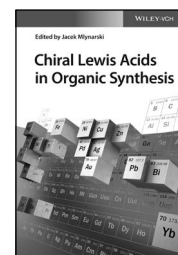
Catalysis

Chiral Lewis Acids in Organic Synthesis

Jacek Mlynarski

- A complete overview covering the application of metal-based chiral Lewis acids from all parts of the periodic table
- The book discusses the design of chiral complexes as well as a wide spectrum of reactions promoted by various chiral Lewis acids, including water-compatible acids as well as the most important applications in the chemical and pharmaceutical industries
- A must-have for catalytic and organic chemists working in the field, both in academia and industry, as well as pharmaceutical and medicinal chemists

Print ISBN: 978-3-527-34129-0 (Cloth) US\$179.95 • Aug 2017 • 400PP



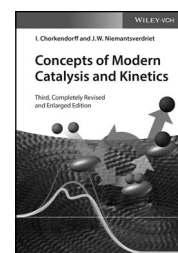
Concepts of Modern Catalysis and Kinetics

3rd, Completely Revised and Enlarged Edition

I. Chorkendorff & J. W. Niemantsverdriet

- In the past 12 years since its publication, *Concepts of Modern Catalysis and Kinetics* has become a standard textbook for graduate students at universities worldwide
- Emphasizing fundamentals from thermodynamics, physical chemistry, spectroscopy, solids state chemistry and quantum chemistry, it introduces catalysis from a molecular perspective, and stresses how it is interwoven with the field of reaction kinetics
- The authors go on to explain how the world of reacting molecules is connected to the real world of industry, by discussing the various scales (nano - micro - macro) that play a role in catalysis
- Reflecting the modern-day focus on energy supplies, this third edition devotes attention to such processes as gas-to-liquids, coal-to-liquids, biomass conversion and production of hydrogen via photo and electrocatalysis

Print ISBN: 978-3-527-33268-7 (Paper) US\$95.00 • Jul 2017 • 500PP



Homogeneous Catalysis

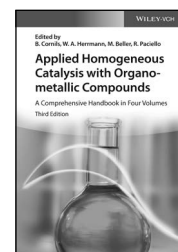
Applied Homogeneous Catalysis with Organometallic Compounds

A Comprehensive Handbook in Four Volumes, 3rd Edition (Previously Announced)

B. Cornils, W. A. Herrmann, M. Beller & R. Paciello

- The completely revised third edition of this four-volume classic is fully updated and now includes such topics as CH-activation and multicomponent reactions
- It describes the most important reaction types, new methods and recent developments in catalysis
- The internationally renowned editors and a plethora of international authors (including Nobel laureate R. Noyori) guarantee high quality content throughout the book

Print ISBN: 978-3-527-32897-0 (Cloth) US\$675.00 • Jun 2017 • 1758PP



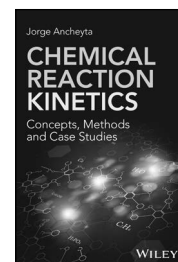
Chemical Reaction Kinetics

Concepts, Methods and Case Studies

Jorge Ancheyta

- *Chemical Reaction Kinetics: Concepts, Methods and Case Studies* focuses on fundamental aspects of homogeneous reaction kinetics, with emphasis on the mathematical treatment of experimental data and interpretation of the results
- It describes basic concepts of reaction kinetics, the parameters to measure the progress of chemical reactions, the variables that affect the reaction rates, and the ideal reactor performance and equations. Mathematical methods to determine reaction kinetic parameters are described in detail with the help of examples and worked step-by-step solutions. Both analytical and numerical solutions are exemplified

Print ISBN: 978-1-119-22664-2 (Cloth) US\$90.00 • Aug 2017 • 320PP



Computational Chemistry & Molecular Modeling

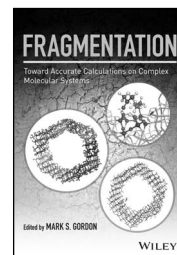
Fragmentation

Toward Accurate Calculations on Complex Molecular Systems

Mark S. Gordon

- *Fragmentation: Toward Accurate Calculations on Complex Molecular Systems* introduces the reader to the broad array of fragmentation and embedding methods that are currently available or under development to facilitate accurate calculations on large, complex systems such as proteins, polymers, liquids and nanoparticles
- These methods work by subdividing a system into subunits, called fragments or subsystems or domains. Calculations are performed on each fragment and then the results are combined to predict properties for the whole system

Print ISBN: 978-1-119-12924-0 (Cloth) US\$150.00 • Jul 2017 • 360PP



Chemical Informatics

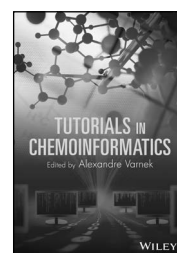
Tutorials in Chemoinformatics

Alexandre Varnek



- Chemoinformatics is widely used in both academic and industrial chemical and biochemical research worldwide. Yet, until this unique guide, there were no books offering practical exercises in chemoinformatics methods
- *Tutorials in Chemoinformatics* contains more than 100 exercises in 30 tutorials exploring key topics and methods in the field. It takes an applied approach to the subject with a strong emphasis on problem-solving and computational methodologies
- Each tutorial is self-contained and contains exercises for students to work through using a variety of software packages
- The majority of the tutorials are divided into three sections devoted to theoretical background, algorithm description and software applications, respectively, with the latter section providing step-by-step software instructions
- Throughout, three types of software tools are used: in-house programs developed by the authors, open-source programs and commercial programs which are available for free or at a modest cost to academics. The in-house software and data sets are available on a dedicated companion website

Print ISBN: 978-1-119-13796-2 (Cloth) US\$95.00 • Aug 2017 • 296PP



Batteries & Fuel Cells

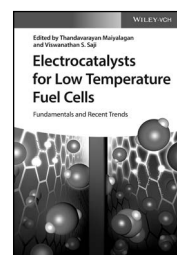
Electrocatalysts for Low Temperature Fuel Cells

Fundamentals and Recent Trends

Thandavarayan Maiyalagan & Viswanathan S. Saji

- Meeting the need for a text on solutions to conditions which have so far been a drawback for this important and trend-setting technology, this monograph places special emphasis on novel, alternative catalysts of low temperature fuel cells
- Comprehensive in its coverage, the text discusses not only the electrochemical, mechanistic, and material scientific background, but also provides extensive chapters on the design and fabrication of electrocatalysts
- A valuable resource aimed at multidisciplinary audiences in the fields of academia and industry

Print ISBN: 978-3-527-34132-0 (Cloth) US\$255.00 • Jul 2017 • 640PP

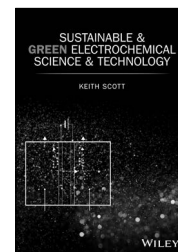


Electrochemistry

Sustainable and Green Electrochemical Science and Technology

Keith Scott

- A comprehensive introduction to green electrochemistry for researchers entering the field, from fundamental principles to the wide range of practical applications (including synthesis, recycling, energy systems and waste minimization)
- Brings together subject matter currently spread over specialised and advanced books in many different disciplines
- The application of electrochemistry in energy generation and waste treatment is a rapidly growing area, attracting substantial interest from both academia and industry
- With the increasing interest in sustainability and alternative energy strategies, many institutions are introducing courses in sustainable chemistry, engineering and renewable energy; this book will be a valuable resource for students on these increasingly popular courses
- A practical resource for industry professionals looking to implement green and sustainable processes in their works



Print ISBN: 978-1-119-97244-0 (Cloth) US\$155.00 • Jun 2017 • 416PP

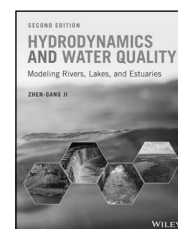
Water Chemistry

Hydrodynamics and Water Quality

Modeling Rivers, Lakes, and Estuaries, 2nd Edition

Zhen-Gang Ji

- This book illustrates principles, basic processes, mathematical descriptions, and practical applications associated with surface waters
- It focuses on solving practical problems in rivers, lakes, estuaries, coastal waters, and wetlands
- Most of the theories and technical approaches presented in the book have been implemented in mathematical models and applied to solve practical problems
- Throughout the book, case studies are presented to demonstrate how the basic theories and technical approaches are implemented into models; and how these models are applied to solve practical environmental/water resources problems



Print ISBN: 978-1-118-87715-9 (Cloth) US\$159.95 • Jun 2017 • 648PP

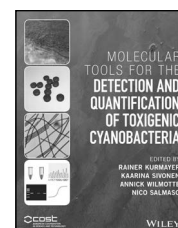
Environmental Chemistry

Molecular Tools for the Detection and Quantification of Toxigenic Cyanobacteria

Rainer Kurmayer, Kaarina Sivonen, Annick Wilmotte & Nico Salmaso

This handbook offers the first comprehensive treatment of molecular tools for monitoring toxigenic cyanobacteria.

Growing out of the findings of the landmark European Cooperation in Science and Technology Cyanobacteria project (CYANOCOST), it provides detailed, practical coverage of the full array of available molecular tools and protocols, from water sampling, nucleic acid extraction, and downstream analysis — including PCR and qPCR based methods — to genotyping (DGGE), diagnostic microarrays, and community characterization using next-gen sequencing techniques.



Print ISBN: 978-1-119-33210-7 (Cloth) US\$145.00 • Aug 2017 • 276PP

Biotechnology (Chemistry)

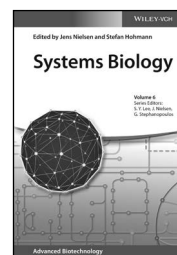
Systems Biology

Volume 6 (Previously Announced)

Jens Nielsen & Stefan Hohmann

- With its comprehensive coverage of the many different aspects of systems biology, this book offers an excellent overview of experimental and computational approaches used to study biological systems
- Each chapter represents a valuable introduction to a specific branch of systems biology, but also includes the current state-of-the-art and points to future directions
- As part of the Advances Biotechnology book series, the editors compiled an excellent contributor list to provide an up-to-date view on the applications of systems biology in the field of human health and cell factory engineering

Print ISBN: 978-3-527-33558-9 (Cloth) US\$165.00 • May 2017 • 440PP



Paints, Pigments, Coatings, Dyes

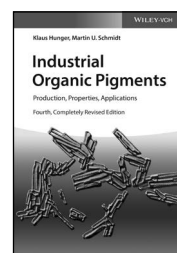
Industrial Organic Pigments

Production, Properties, Applications, 4th, Completely Revised Edition (Previously Announced)

Klaus Hunger & Martin U. Schmidt

- Revised and updated, this highly acclaimed work, now in its fourth edition, remains the most comprehensive source of information available on organic pigments
- It provides up-to-date information on synthesis, reaction mechanism, physical and chemical properties, test methods, and applications of all the industrially produced organic pigments available on the world market
- This fourth edition now includes new chapters on the latest applications and three-dimensional X-ray analysis, while the chapters on legislation, ecology, and toxicology have been rewritten to reflect recent developments

Print ISBN: 978-3-527-32608-2 (Cloth) US\$380.00 • Jun 2017 • 758PP



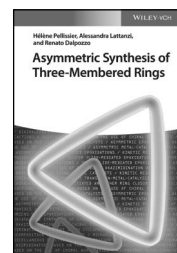
Methods - Synthesis & Techniques

Asymmetric Synthesis of Three-Membered Rings

Hélène Pellissier, Alessandra Lattanzi & Renato Dalpozzo

- The first handbook to focus on the asymmetric synthesis of different types of three-membered rings
- The outstanding and experienced authors have an excellent international reputation and cover cyclopropanes, epoxides and aziridines as well as chiral oxaziridines in equal measure
- To this end, they describe in detail different synthetic approaches starting with chiral substrates as well as the application of chiral metal- or organocatalysts
- Furthermore, methods for the kinetic resolution of initially racemic products are treated alongside recent advances and novel developments in established techniques for the synthesis of three-membered rings
- With its structured composition this is of high interest to scientists in methodological and natural product synthesis as well as those in industrial and pharmaceutical chemistry

Print ISBN: 978-3-527-34114-6 (Cloth) US\$170.00 • May 2017 • 584PP

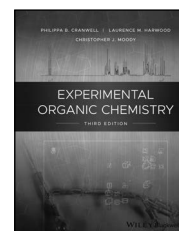


Experimental Organic Chemistry

3rd Edition

Philippa B. Cranwell, Laurence M. Harwood & Christopher J. Moody

- This established text provides a rigorous account of the principles and practice of experimental organic chemistry, taking students from their first day in the laboratory right through to research work
- A microscale approach is integrated into the entire text, alongside conventional manipulations, in line with current laboratory practice
- The first half of the book surveys all aspects of safe laboratory practice, the use of a wide range of purification and analytical techniques, particularly spectroscopic analysis
- The second half contains easy-to-follow experimental procedures, each designed to illustrate an important reaction type or basic principle of organic chemistry
- Tried and tested over the past two decades, these experiments are graded according to their complexity and many of these have microscale equivalents



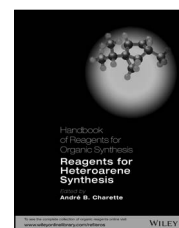
Print ISBN: 978-1-119-95239-8 (Cloth) US\$160.00 / 978-1-119-95238-1 (Paper) US\$70.00 • Jun 2017 • 672PP

Handbook of Reagents for Organic Synthesis

Reagents for Heteroarene Synthesis

André B. Charette

- The Handbook is a compilation of 99 articles on diverse reagents and catalysts that describe the synthesis of heteroarenes, the building blocks of a wide range of chemicals used in pharma and chemical industries
- Articles are selected from the e-EROS database and edited to make sure that it includes only the material relevant to the topic of the book and focus on the synthetic aspects
- This makes the articles very focused on the needs of readers wanting information on specific syntheses of specific heteroarenes
- In addition, the chemistry of each "parent heteroarene" is also included to ensure that the reader rapidly finds important information



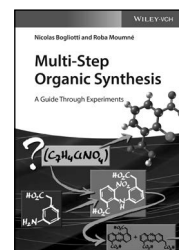
Print ISBN: 978-1-119-95229-9 (Cloth) US\$190.00 • Aug 2017 • 728PP

Multi-Step Organic Synthesis

A Guide Through Experiments

Nicolas Bogliotti & Roba Mounné

- Combining theoretical knowledge of synthetic transformations, practical considerations, structural elucidation by interpretation of spectroscopic data as well as rationalization of structure-property relations, this textbook presents a series of 16 independent exercises, including detailed descriptions of experimental procedures, questions, and answers
- The experimental descriptions are very helpful for guiding less experienced students towards a better understanding of practical aspects in synthetic organic chemistry, while the broad scope of the questions and answers is excellent for learning purposes
- The exercises are based on published research articles, adapted for didactic purposes, and will thus inspire students by way of having to solve real-life problems in chemistry
- A must-have for MSc and PhD students as well as postdocs in organic chemistry and related disciplines, and lecturers and organizers of lab courses in organic chemistry



Print ISBN: 978-3-527-34065-1 (Paper) US\$85.00 • Jul 2017 • 250PP

Organic Syntheses, Volume 93

H. M. L. Davies & E. M. Carreira

- The current volume continues the tradition of the *Organic Syntheses* series, providing carefully checked and edited experimental procedures that describe important synthetic methods, transformations, reagents, and synthetic building blocks or intermediates with demonstrated utility in organic synthesis
- These significant and interesting procedures should prove worthwhile to many synthetic chemists working in increasingly diverse areas

Print ISBN: 978-1-119-34902-0 (Cloth) US\$TBA • Mar 2017 • 480PP



Organic Chemistry

Organic Reactions, Volume 92

Scott E. Denmark (Previously Announced)

- The latest volume in this series for organic chemists in industry presents critical discussions of widely used organic reactions or particular phases of a reaction
- The material is treated from a preparative viewpoint, with emphasis on limitations, interfering influences, effects of structure and the selection of experimental techniques
- The work includes tables that contain all possible examples of the reaction under consideration. Detailed procedures illustrate the significant modifications of each method

Print ISBN: 978-1-119-28142-9 (Cloth) US\$TBA • May 2017 • 960PP

Organic
Reactions,
Volume 92**Organic Reactions, Volume 93**

Scott E. Denmark (Previously Announced)

- The latest volume in this series for organic chemists in industry presents critical discussions of widely used organic reactions or particular phases of a reaction
- The material is treated from a preparative viewpoint, with emphasis on limitations, interfering influences, effects of structure and the selection of experimental techniques
- The work includes tables that contain all possible examples of the reaction under consideration
- Detailed procedures illustrate the significant modifications of each method

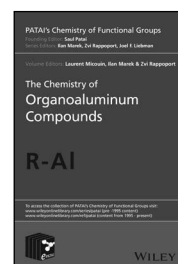
Print ISBN: 978-1-119-28141-2 (Cloth) US\$TBA • Sep 2017 • 960PP

Organic
Reactions,
Volume 93**The Chemistry of Organoaluminum Compounds**

Laurent Micouin, Ilan Marek & Zvi Rappoport

- The understanding of functional groups is the key to understanding organic chemistry. In the tradition of *Patai's Chemistry of Functional Groups* each volume treats all aspects of functional groups
- Each volume contains a wide range of chapters, touching on theoretical, analytical, synthetic, biological and biochemical, and industrial aspects
- This first volume on organoaluminum compounds in the series complements the recently published volumes on other areas of organometallic synthesis, notably the volumes on organoiron, organolithium, organozinc, organocopper and organomanganese compounds
- As with all new volumes, the chapters are first published online in *Patai's Chemistry of Functional Groups*. Once a volume is completed online, it is then published in print format. The printed book offers the traditional quality of the Patai Book Series, complete with an extensive index

Print ISBN: 978-1-119-02146-9 (Cloth) US\$690.00 • May 2017 • 672PP



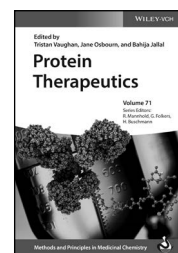
Biopharmaceuticals & Pharmaceutical Biotechnology

Protein Therapeutics, Volume 71

Tristan Vaughan, Jane Osbourn & Bahija Jallal

- In this practice-oriented two volume handbook, professionals from some of the largest biopharmaceutical companies and top academic researchers address the key concepts and challenges in the development of protein pharmaceuticals for medicinal chemists and drug developers of all trades
- Following an introduction tracing the rapid development of the protein therapeutics market over the last decade, all currently used therapeutic protein scaffolds are surveyed, from human and non-human antibodies to antibody mimetics, bispecific antibodies and antibody-drug conjugates
- This ready reference then goes on to review other key aspects such as pharmacokinetics, safety and immunogenicity, manufacture, formulation and delivery
- The handbook then takes a look at current key clinical applications for protein therapeutics, from respiratory and inflammation to oncology and immune-oncology, infectious diseases and rescue therapy. Finally, several exciting prospects for the future of protein therapeutics are highlighted and discussed

Print ISBN: 978-3-527-34086-6 (Cloth) US\$215.00 • Jul 2017 • 752PP



Drug Discovery & Development

Natural Products Targeting Clinically-relevant Enzymes

Paula B. Andrade, Patricia Valentao & David M. Pereira

- The past decade has seen the reappearance of natural products as a valuable source of potent therapeutics. Here, experts on bioactive natural products cover the full spectrum of clinically relevant enzymes that are known to be targeted by natural products
- Key enzymes include acetylcholine esterase, angiotensin-I-converting enzyme, cyclooxygenase, dihydrofolate reductase, phospholipase A2, respiratory complexes, and many more
- By connecting the diversity of medicinal natural product sources with their potential clinical applications, this volume serves as a companion for the medicinal chemist looking for innovative small molecule compounds as well as for pharmacologist interested in the clinical effects and mode of action of herbal and traditional Asian medicines

Print ISBN: 978-3-527-34205-1 (Cloth) US\$167.95 • Aug 2017 • 440PP

**Natural
Products
Targeting
Clinically-
relevant
Enzymes**

ISBN 978-3-527-34205-1



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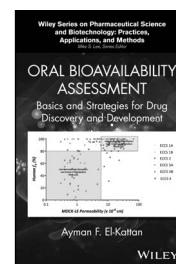
Oral Bioavailability Assessment

Basics and Strategies for Drug Discovery and Development

Ayman F. El-Kattan & Mike S. Lee

- Describes approaches to assess pharmacokinetics and how drug efflux and uptake transporters impact oral bioavailability
- Helps readers reduce the failure rate of drug candidates when transitioning from the bench to the clinic during development
- Explains how preclinical animal models — used in preclinical testing — and in vitro tools translate to humans, which is an underappreciated and complicated area of drug development
- Includes chapters about pharmacokinetic modelling, the Biopharmaceutics Drug Disposition Classification System (BDDCS), and the Extended Clearance Classification System (ECCS)
- Has tutorials for applying strategies to medicinal chemistry practices of drug discovery/development

Print ISBN: 978-1-118-91669-8 (Cloth) US\$174.95 • Jun 2017 • 464PP



ISBN 978-1-118-91669-8



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Practical Medicinal Chemistry with Macrocycles

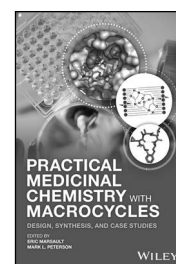
Design, Synthesis, and Case Studies

Eric Marsault & Mark L. Peterson

Including case studies of macrocyclic marketed drugs and macrocycles in drug development, this book helps medicinal chemists deal with the synthetic and conceptual challenges of macrocycles in drug discovery efforts.

- Provides needed background to build a program in macrocycle drug discovery — design criteria, macrocycle profiles, applications, and limitations
- Features chapters contributed from leading international figures involved in macrocyclic drug discovery efforts
- Covers design criteria, typical profile of current macrocycles, applications, and limitations

Print ISBN: 978-1-119-09256-8 (Cloth) US\$194.95 • Sep 2017 • 464PP



ISBN 978-1-119-09256-8



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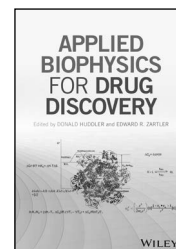
Pharmaceutical & Medicinal Chemistry

Applied Biophysics for Drug Discovery

Donald Huddler & Edward R. Zartler

- *Applied Biophysics for Drug Discovery* is a guide to new techniques and approaches to identifying and characterizing small molecules in early drug discovery
- Biophysical methods are reasserting their utility in drug discovery and through a combination of the rise of fragment-based drug discovery and an increased focus on more nuanced characterisation of small molecule binding, these methods are playing an increasing role in discovery campaigns
- This text emphasizes practical considerations for selecting and deploying core biophysical method, including but not limited to ITC, SPR, and both ligand-detected and protein-detected NMR

Print ISBN: 978-1-119-09948-2 (Cloth) US\$145.00 • Jul 2017 • 556PP



ISBN 978-1-119-09948-2



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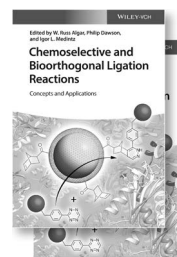
Chemoselective and Bioorthogonal Ligation Reactions

Concepts and Applications (Previously Announced)

W. Russ Algar, Philip Dawson & Igor L. Medintz

- This timely, one-stop reference is the first on an emerging and interdisciplinary topic
- Covering both established and recently developed ligation chemistries, the book is divided into two didactic parts: a section that focuses on the details of bioorthogonal and chemoselective ligation reactions at the level of fundamental organic chemistry, and a section that focuses on applications, particularly in the areas of chemical biology, biomaterials, and bioanalysis, highlighting the capabilities and benefits of the ligation reactions
- With chapters authored by outstanding scientists who range from trailblazers in the field to young and emerging leaders, this book on a highly interdisciplinary topic will be of great interest for biochemists, biologists, materials scientists, pharmaceutical chemists, organic chemists, and many others

Print ISBN: 978-3-527-33436-0 (Cloth) US\$335.00 • May 2017 • 744PP



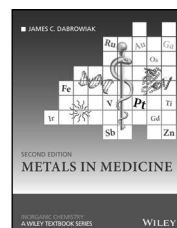
Metals in Medicine

2nd Edition

James C. Dabrowiak

- Working from basic chemical principles, *Metals in Medicine, 2nd Edition* describes a wide range of metal-based agents for treating and diagnosing disease
- Thoroughly revised and restructured to reflect significant research activity and advances, this new edition contains extensive updates and new pedagogical features while retaining the popular feature boxes and end-of-chapter problems of the first edition

Print ISBN: 978-1-119-19130-8 (Paper) US\$85.00 • Jul 2017 • 456PP



Physical Chemistry

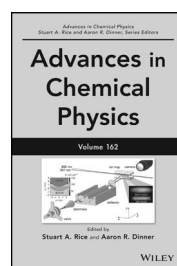
Advances in Chemical Physics, Volume 162

Stuart A. Rice & Aaron R. Dinner (Previously Announced)

The *Advances in Chemical Physics* series provides the chemical physics field with a forum for critical, authoritative evaluations of advances in every area of the discipline.

- This is the only series of volumes available that presents the cutting edge of research in chemical physics
- Includes contributions from experts in this field of research
- Contains a representative cross-section of research that questions established thinking on chemical solutions
- Structured with an editorial framework that makes the book an excellent supplement to an advanced graduate class in physical chemistry or chemical physics

Print ISBN: 978-1-119-32457-7 (Cloth) US\$294.95 • Jul 2017 • 600PP



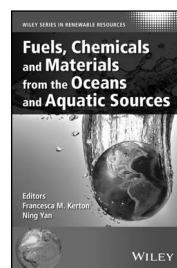
Sustainable Chemistry & Green Chemistry

Fuels, Chemicals and Materials from the Oceans and Aquatic Sources

Francesca M. Kerton & Ning Yan

- *Fuels, Chemicals and Materials from the Oceans and Aquatic Sources* provides a holistic view of fuels, chemicals and materials from renewable sources in the oceans and other aquatic media
- It presents established and recent results regarding the use of water-based biomass, both plants and animals, for value-added applications beyond food
- The book begins with an introductory chapter which provides an overview of ocean and aquatic sources for the production of chemicals and materials
- Subsequent chapters focus on the use of various ocean bioresources and feedstocks, including microalgae, macroalgae, and waste from aquaculture and fishing industries, including fish oils, crustacean and mollusc shells

Print ISBN: 978-1-119-11716-2 (Cloth) US\$135.00 • Jul 2017 • 304PP



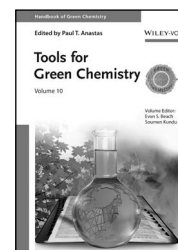
Tools for Green Chemistry

Volume 10

Paul T. Anastas, Evan S. Beach & Soumen Kundu

The series *Handbook of Green Chemistry* edited by P. Anastas who is one leading pioneer of this field is the ultimate reference. Volume 10 of the *Handbook of Green Chemistry* presents important tools, databases, and laboratory approaches to support chemists in academia and industry to achieve their green chemistry goals.

Print ISBN: 978-3-527-32645-7 (Cloth) US\$205.00 • Jun 2017 • 312PP



Food Chemistry

Advances in Food Diagnostics

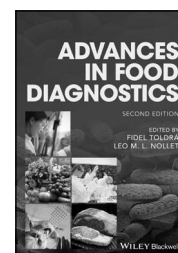
2nd Edition

Fidel Toldrá & Leo M. L. Nollet

Featuring seven entirely new chapters, the second edition of this critically acclaimed guide has been extensively revised and updated. Once again delivering food professionals the latest advances in food diagnostics and analysis, the book approaches the topic in several different ways: reviewing novel technologies to evaluate fresh products; describing and analysing in depth specific modern diagnostics; providing analyses of data processing; and discussing global marketing, with insights into future trends.

Written by an international team of experts, this volume not only covers most conventional lab-based analytical methods, but also focuses on leading-edge technologies which are being or are about to be introduced.

Print ISBN: 978-1-119-10588-6 (Cloth) US\$190.00 • Aug 2017 • 580PP



Food Processing, Production & Manufacture

Beckett's Industrial Chocolate Manufacture and Use

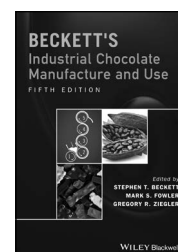
5th Edition (Previously Announced)

Steve T. Beckett, Mark S. Fowler & Gregory R. Ziegler

Since the publication of the first edition of *Industrial Chocolate Manufacture and Use* in 1988, it has become the leading technical book for the industry.

From the beginning it was recognised that the complexity of the chocolate industry means that no single person can be an expert in every aspect of it. For example, the academic view of a process such as crystallisation can be very different from that of a tempering machine operator, so some topics have more than one chapter to take this into account. It is also known that the biggest selling chocolate, in say the USA, tastes very different from that in the UK, so the authors in the book were chosen from a wide variety of countries making the book truly international. Each new edition is a mixture of updates, rewrites and new topics. In this book the new subjects include artisan or craft scale production, compound chocolates and sensory.

Print ISBN: 978-1-118-78014-5 (Cloth) US\$250.00 • May 2017 • 800PP



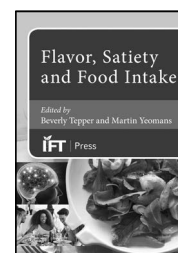
Sensory Science

Flavor, Satiety and Food Intake

Beverly Tepper & Martin Yeomans

- A unique overview of the latest science on how flavor affects satiety and the perception of foods during eating
- A topic of central importance both for food professionals seeking to develop healthier products and health professionals concerned with obesity and over-eating
- Brings together relevant topics from the fields of food science, psychology, nutrition and medicine

Print ISBN: 978-1-119-04489-5 (Cloth) US\$179.95 • Jul 2017 • 264PP

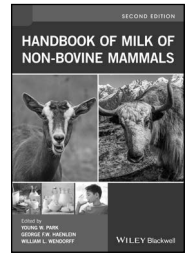


Dairy Food

Handbook of Milk of Non-Bovine Mammals*2nd Edition***Young W. Park, George F. W. Haenlein & William L. Wendorff**

- A unique review of the latest science, nutrition and applications of all the non-bovine milks produced for human consumption
- This revised second edition contains six new chapters and the book has been updated throughout to reflect the considerable research that has taken place since the original book's publication
- Comprehensively covers the most important aspects of production as well as the nutritional, therapeutic, physico-chemical, and microbiological characteristics of the milks and the cheese and other products made from them
- Includes material on the milks of the goat, sheep, buffalo, mare, camel, yak, deer (reindeer), sow, llama, alpaca, moose, musk ox, caribou, ass, elk, pinniped and polar bear
- One of the six new chapters addresses the use of non-bovine species milk components in the manufacture of human infant formula products

Print ISBN: 978-1-119-11027-9 (Cloth) US\$250.00 • Jun 2017 • 712PP



Fruit & Vegetable

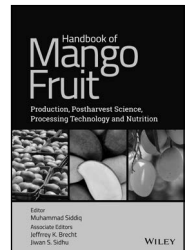
Handbook of Mango Fruit

Production, Postharvest Science, Processing Technology and Nutrition

Muhammad Siddiq, Jeffrey K. Brecht & Jiwan S. Sidhu

- A true handbook on this commercially important and increasingly popular tropical fruit: second only to bananas in terms of world trade
- Covers the entire value chain from breeding, production and postharvest through to processing, packaging, safety and nutrition and health considerations
- Dedicated chapters look at the phytochemical compounds found in mangoes and the potential for utilization of processing waste products

Print ISBN: 978-1-119-01435-5 (Cloth) US\$199.95 • Aug 2017 • 296PP



Functional Foods & Nutraceuticals

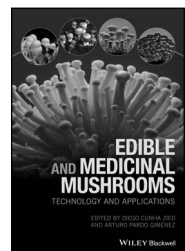
Edible and Medicinal Mushrooms

Technology and Applications

Diego Cunha Zied & Arturo Pardo Giménez

- A comprehensive review of the various edible mushrooms on the market — including medicinal mushrooms — their compounds, production and applications
- Covers mushrooms medicinal and nutritional properties, including their bioactive properties
- Chapters are dedicated to the cultivation of major species such as *Agaricus bisporus*, *Agaricus subrufescens*, *Pleurotus ostreatus*, *Lentinula edodes* and exotic mushrooms
- Reviews the latest knowledge on processing, management, pest and disease controls in edible mushroom cultivation

Print ISBN: 978-1-119-14941-5 (Cloth) US\$200.00 • Jun 2017 • 584PP



Ingredients

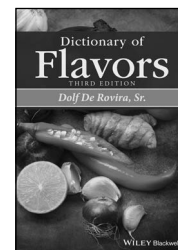
Dictionary of Flavors

3rd Edition (Previously Announced)

Dolf De Rovira, Sr.

The third edition of this highly popular scientific reference continues to provide a unique approach to flavors, flavor chemistry and natural products. *Dictionary of Flavors* features entries on all flavor ingredients granted G.R.A.S. status, compounds used in the formulation of food flavors, and related food science and technology terms. Allergies and intolerances are addressed, along with strategies to avoid allergenic compounds. This latest edition has been fully updated to reflect new ingredients available on the market, as well as developments in safety standards and the international regulatory arena. Dolf De Rovira applies his extensive experience to make this the most comprehensive guide to flavors available.

Print ISBN: 978-1-118-85641-3 (Cloth) US\$230.00 • May 2017 • 776PP



Oils & Fats

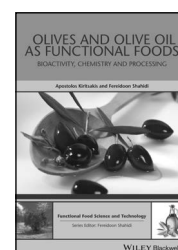
Olives and Olive Oil as Functional Foods

Bioactivity, Chemistry and Processing

Apostolos Kiritsakis & Fereidoon Shahidi

This book will provide thorough information about olives and olive oil, including on composition, analysis, fruit processing, quality control, utilisation of by-products, and more. It will help the reader to understand the importance of this product for the agricultural economy and the relevance of its bioactives to our health. Readers will learn about the importance of olive oil's role in reducing oxidative stress — a serious danger factor for human health. The book will provide very significant information about the new trends in olive oil and lipids.

Print ISBN: 978-1-119-13531-9 (Cloth) US\$190.00 • Aug 2017 • 664PP



General & Introductory Food Science & Technology

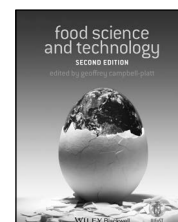
Food Science and Technology

2nd Edition

Geoffrey Campbell-Platt

- The comprehensive text and reference book is designed to cover all the essential elements of food science and technology, including all core aspects of major food science and technology degree programs being taught worldwide
- This second edition sees major development of the book's accessibility and features as well as a greater use of colour, photos and illustrations to enhance the reader's learning experience and to appeal to students in the subject
- The editor, Geoffrey Campbell-Platt, is a world-renowned food scientist with a long career in industry and academia, and is currently President of the world's biggest professional association for food science, the International Union of Food Science and Technology (IUFoST)
- Each chapter is written by an expert in their chosen field, thus presenting a collection of authoritative authors in one volume, suitable for food science and technology degree programmes and food industry professionals

Print ISBN: 978-0-470-67342-3 (Cloth) US\$99.99 • Jul 2017 • 528PP



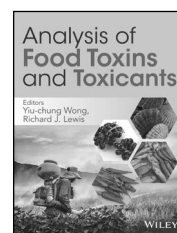
Microbiology, Food Safety & Security

Analysis of Food Toxins and Toxicants

Yiu-chung Wong & Richard J. Lewis (Previously Announced)

- Comprehensive: covers a diverse range of analytical technologies for food toxins and toxicants, including microbial toxins, plant toxins, marine toxins, volatile amine toxins and common toxicants in foods
- Up-to-date: highlights all the technological advancements in the field and provides an up-to-date analytical approach on different types of toxin
- Forward-looking: focuses on the recent and future analytical trends in food toxins, and discusses novel strategic development in toxin measurements
- Practical: provides practical guidance for scientists on how to choose the most appropriate and effective methodology to identify food toxins and toxicants

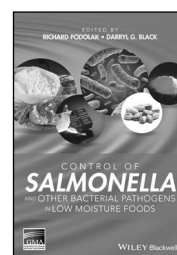
Print ISBN: 978-1-118-99272-2 (Cloth) US\$275.00 • Jul 2017 • 824PP

**Control of Salmonella and Other Bacterial Pathogens in Low Moisture Foods**

Richard Podolak & Darryl G. Black

- A comprehensive reference and how-to solution for managing food safety for low moisture, higher risk foods
- Practical approach brings the current body of knowledge together into a functional resource that can help implement the preventive controls mandated by regulation
- Presents sources and risk factors for pathogenic bacteria of concern in the manufacturing environment for low moisture/water activity products and characterizes the persistence and thermal resistance of these pathogens in both the environment and the food product
- Outlines the appropriate industry practices for the control and elimination of pathogens in these products

Print ISBN: 978-1-119-07108-2 (Cloth) US\$199.95 • Jul 2017 • 300PP

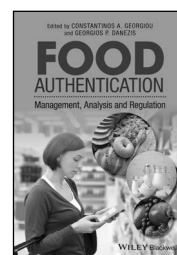
**Food Authentication**

Management, Analysis and Regulation (Previously Announced)

Constantinos A. Georgiou & Georgios P. Danezis

- This book covers the most advanced techniques used for the authentication of a vast number of products around the world
- Wide-ranging overview of the issues and techniques around food fraud detection: a vital component of the drive for food quality and safety in the global supply chain
- Examines all the latest analytical techniques to establish geographical and species origin, assessing the strengths and weaknesses of each
- Reviews consumers concerns about and perceptions of food authenticity and designated origin products
- A dedicated chapter looks at the application of chemometrics and bioinformatics to this field
- Addresses issues relating to the provenance of organic food products

Print ISBN: 978-1-118-81026-2 (Cloth) US\$200.00 • May 2017 • 560PP

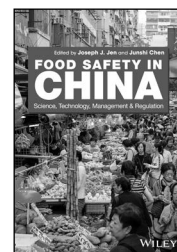
**Food Safety in China**

Science, Technology, Management & Regulation

Joseph J. Jen & Junshi Chen

- *Food Safety in China: Science, Technology, Management and Regulation* presents a comprehensive overview of the history and current state of food safety in China, along with emerging regulatory trends and the likely future needs of the country
- Although the focus is on China, global perspectives are presented in the chapters and 33 of the 99 authors are from outside of China
- Timely and illuminating, this book offers invaluable insights into our understanding of a critical link in the increasingly globalized complex food supply chain of today's world

Print ISBN: 978-1-119-23796-9 (Cloth) US\$230.00 • May 2017 • 696PP



Composites

Bionanocomposites

Integrating Biological Processes for Bio-inspired Nanotechnologies (Previously Announced)

Carole Aimé & Thibaud Coradin

- Provides strong biological understanding to the next generation of students working in nanotechnology
- Includes detailed technical sections devoted to the characterization techniques used to investigate both the biological and material components of bionanocomposites
- Describes in detail the structural and functional properties of biological systems to applications of bio-nanomaterials
- Serves as a tool for graduate students and scientists new to this field from either biological or chemical engineering fields
- Addresses applications in optics, conductivity, magnetism, mechanics, catalysis, and bioactivity

Print ISBN: 978-1-118-94222-2 (Cloth) US\$TBA • Aug 2017 • 320PP



General & Introductory Materials Science

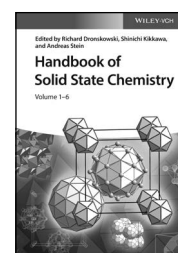
Handbook of Solid State Chemistry

Volume 1-6

Richard Dronskowski, Shinichi Kikkawa & Andreas Stein

This most comprehensive and unrivaled compendium in the field provides an up-to-date account of the chemistry of solids, nanoparticles and hybrid materials. Following a valuable introductory chapter reviewing important synthesis techniques, the handbook presents a series of contributions by about 150 international leading experts — the “Who’s Who” of solid state science. Clearly structured, in six volumes it collates the knowledge available on solid state chemistry, starting from the synthesis, and modern methods of structure determination. Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space, as are such modern trends as nanoparticles, surface properties and heterogeneous catalysis. Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations.

Print ISBN: 978-3-527-32587-0 (Cloth) US\$1,885.00 • Jun 2017 • 3000PP



Magnetic Materials

Magnetic Nanomaterials

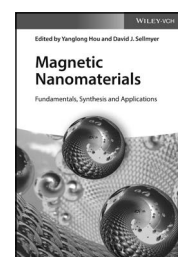
Fundamentals, Synthesis and Applications

Yanglong Hou & David J. Sellmyer

Timely and comprehensive, this book presents recent advances in magnetic nanomaterials research, covering the latest developments, including the design and preparation of magnetic nanoparticles, their physical and chemical properties as well as their applications in different fields, including biomedicine, magnetic energy storage, wave-absorbing and water remediation.

By allowing researchers to get to the forefront developments related to magnetic nanomaterials in various disciplines, this is invaluable reading for the nano, magnetic, energy, medical, and environmental communities.

Print ISBN: 978-3-527-34134-4 (Cloth) US\$255.00 • Aug 2017 • 500PP

**Magnetoelectric Polymer-Based Composites**

Fundamentals and Applications

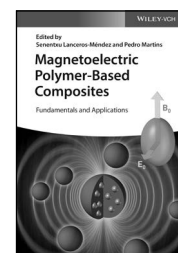
Senentxu Lanceros-Méndez & Pedro Martins

The first book on this topic provides a comprehensive and well-structured overview of the fundamentals, synthesis and emerging applications of magnetoelectric polymer materials.

Following an introduction to the basic aspects of polymer based magnetoelectric materials and recent developments, subsequent chapters discuss the various types as well as their synthesis and characterization. There then follows a review of the latest applications, such as memories, sensors and actuators. The book concludes with a look at future technological advances.

An essential reference for entrants to the field as well as for experienced researchers.

Print ISBN: 978-3-527-34127-6 (Cloth) US\$155.95 • Jun 2017 • 320PP



Nanomaterials

Design of Nanostructures

Self-Assembly of Nanomaterials

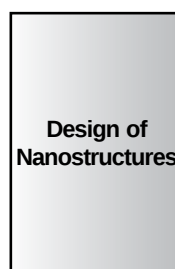
Himadri Bohidar & Kamla Rawat

Adopting a unique approach, this book provides a thorough, one-stop introduction to nanoscience and self-assembly of nanomaterials composed of such materials as metals, metal oxides, semiconductors, polymers, and biopolymers.

Clearly divided into three sections covering the main aspects of nanoscience, the first part deals with the basic principles of nanoscale science. Alongside essential approaches and forces, this section also covers thermodynamics, phase transitions, and applications to biological systems. The second and third parts then go on to provide a detailed description of the synthesis of inorganic and organic nanoparticles, respectively.

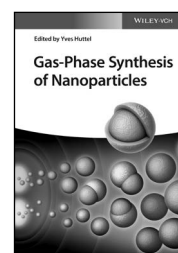
With its interdisciplinary content of importance to many different branches of nanoscience, this is essential reading for materials scientists, solid state physicists, chemical engineers, and biotechnologists alike.

Print ISBN: 978-3-527-34333-1 (Cloth) US\$205.00 • Jul 2017 • 344PP

**Gas-Phase Synthesis of Nanoparticles**Yves Huttel *(Previously Announced)*

The first overview of this topic begins with some historical aspects and a survey of the principles of the gas aggregation method. The second part covers modifications of this method resulting in different specialized techniques, while the third discusses the post-growth treatment that can be applied to the nanoparticles. The whole is rounded off by a review of future perspectives and the challenges facing the scientific and industrial communities.

Print ISBN: 978-3-527-34060-6 (Cloth) US\$165.00 • Jun 2017 • 424PP

**Nano- and Biomaterials**

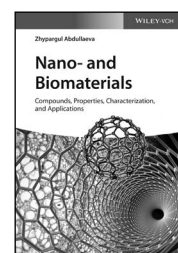
Compounds, Properties, Characterization, and Applications

Zhympargul Abdullaeva

A comprehensive introduction to nano- and biomaterials shining light on the different research disciplines from various perspectives.

The straightforward and well-structured concept is designed to cater for entrants as well as experienced researchers in the field of nanotechnology. The initial chapters introduce nanomaterials, their classification and synthesis techniques, while subsequent chapters discuss the various characterization tools as well as mechanical properties and their applications in biotechnological and biomedical fields. Further understanding of the topic is supported by case studies used for practical purposes. The book concludes with a look at future technology advances.

Print ISBN: 978-3-527-34270-9 (Cloth) US\$190.00 • Jun 2017 • 304PP

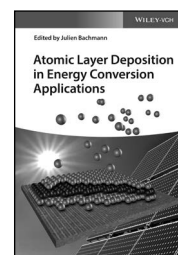


Thin Films, Surfaces & Interfaces

Atomic Layer Deposition in Energy Conversion Applications**Julien Bachmann**

Combining the two topics for the first time, this book begins with an introduction to the recent challenges in energy conversion devices from a materials preparation perspective and how they can be overcome by using atomic layer deposition (ALD). By bridging these subjects it helps ALD specialists to understand the requirements within the energy conversion field, and researchers in energy conversion to become acquainted with the opportunities offered by ALD. With its main focus on applications of ALD for photovoltaics, electrochemical energy storage, and photo- and electrochemical devices, this is important reading for materials scientists, surface chemists, electrochemists, electrotechnicians, physicists, and those working in the semiconductor industry.

Print ISBN: 978-3-527-33912-9 (Cloth) US\$165.00 • May 2017 • 312PP



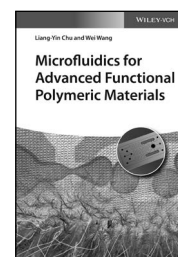
Microfluidics for Advanced Functional Polymeric Materials

Liang-Yin Chu & Wei Wang

A comprehensive and systematic treatment of our current understanding of the microfluidic technique and its advantages in the controllable fabrication of advanced functional polymeric materials.

Introducing and summarizing recent advances and achievements in the field, the authors cover the design and fabrication of microfluidic devices, the fundamentals and strategies for controllable microfluidic generation of multiphase liquid systems, and the use of these liquid systems with an elaborate combination of their structures and compositions for generating novel polymer materials, such as microcapsules, microfibers, valves, and membranes. Clear diagrams and illustrations throughout the text make the relevant theory and technologies more readily accessible.

Print ISBN: 978-3-527-34182-5 (Cloth) US\$190.00 • May 2017 • 344PP



Responsive Polymer Surfaces

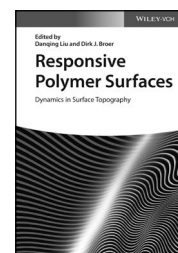
Dynamics in Surface Topography

Danqing Liu & Dirk J. Broer

Adopting an integrated approach, this book covers experiments, theory, and emerging applications.

In the first part surfaces are described that change from flat to either a random corrugated or to a well-structured structure, while the second part deals with those surface structures integrated in the coating surface where the structures change their shape or dimension when addressed by an external trigger. A variety of materials are addressed, including liquid crystal polymers, hydrogels, hard acrylates, and soft silicones. The whole is rounded off by a discussion of various applications, including surface controlled flows in microfluidic systems.

Print ISBN: 978-3-527-33869-6 (Cloth) US\$205.00 • Aug 2017 • 290PP



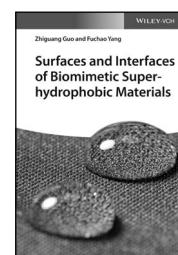
Surfaces and Interfaces of Biomimetic Superhydrophobic Materials

Zhiguang Guo & Fuchao Yang

A comprehensive and systematic treatment that focuses on surfaces and interfaces phenomena inhabited in biomimetic superhydrophobic materials, offering new fundamentals and novel insights.

As such, this new book covers the natural surfaces, fundamentals, fabrication methods and exciting applications of superhydrophobic materials, with particular attention paid to the smart surfaces that can show switchable and reversible water wettability under external stimuli, such as pH, temperature, light, solvents, and electric fields. It also includes recent theoretical advances of superhydrophobic surfaces with regard to the wetting process, and some promising breakthroughs to promote this theory.

Print ISBN: 978-3-527-34264-8 (Cloth) US\$TBA • Aug 2017 • 450PP



Biopolymers

Nanocellulose and Nanohydrogel Matrices

Biotechnological and Biomedical Applications

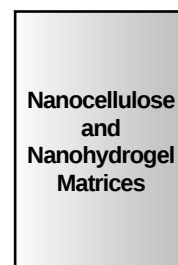
Mohammad Jawaid & Mohammad Faruq

This first book on nanohydrogels for biomedical applications is unique in discussing recent advancements in the field, resulting in a comprehensive, well-structured overview of nanocomposite and nanohydrogel materials.

The first chapter introduces the two types of materials and their recent developments, while subsequent chapters discuss the synthesis and characterization, as well as their applications in biotechnological and biomedical fields. Finally, the book concludes with the outlook regarding future technology advances.

An essential reference for researchers and academics in chemistry, pharmacy, microbiology, materials science and biomedical engineering.

Print ISBN: 978-3-527-34172-6 (Cloth) US\$205.00 • Jun 2017 • 384PP



Polymers for Biomedicine

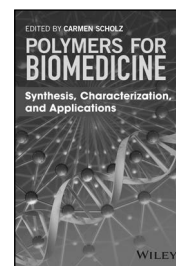
Synthesis, Characterization, and Applications (Previously Announced)

Carmen Scholz

Highlighting dynamic developments in polymer synthesis, this book focuses on the chemical techniques to synthesize and characterize biomedically relevant polymers and macromolecules.

- Aids researchers developing polymers and materials for biomedical applications
- Describes biopolymers from a synthetic perspective, which other similar books do not do
- Covers areas that include: cationically-charged macromolecules, pseudo-peptides, polydrugs and prodrugs, controlled radical polymerization, self-assembly, polycondensates, and polymers for surface modification

Print ISBN: 978-1-118-96657-0 (Cloth) US\$249.95 • Aug 2017 • 432PP



Polymer Processing

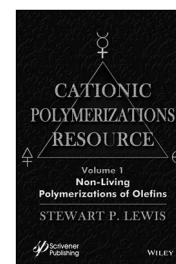
Cationic Polymerizations Resource

Non-Living Polymerization of Olefins, Volume 1 (Previously Announced)

Stewart P. Lewis

- All volumes are written in a manner that is easy to comprehend, even by undergraduate college students, and are designed to help the reader decipher an otherwise complex subject
- Topics for each volume are presented in an order that build successively on material presented in prior books
- The series is comprehensive, so even those who are well-versed in the discipline will find invaluable information in each volume
- Through study of these books, the reader can become an expert in this subset of polymer science without ever having attended courses on the subject

Print ISBN: 978-1-118-29036-1 (Cloth) US\$TBA • Jul 2017 • 500PP



Polymer Science & Technology General

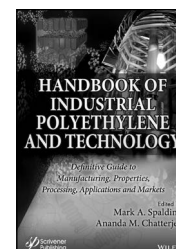
Handbook of Industrial Polyethylene and Technology

Definitive Guide to Manufacturing, Properties, Processing, Applications and Markets (Previously Announced)

Mark A. Spalding & Ananda M. Chatterjee

This handbook provides an exhaustive description of polyethylene. The 50+ chapters are written by some of the most experienced and prominent authors in the field, providing a truly unique view of polyethylene. The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days. New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene, high density polyethylene, copolymers, and polyethylene produced from metallocene catalysts. With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties. Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing, fillers, processing aids, anti-fogging agents, pigments, and flame retardants. Common processing methods including extrusion, blown film, cast film, injection molding, and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding, fiber processing, pipe extrusion, reactive extrusion, wire and cable, and foaming processes. The business of polyethylene including markets, world capacity, and future prospects are detailed. This handbook provides the most current and complete technology assessments and business practices for polyethylene resins.

Print ISBN: 978-1-119-15976-6 (Cloth) US\$499.95 • May 2017 • 1000PP



Polymer Science for Engineers

Stoyko Fakirov



Filling a gap in the market, this textbook provides a concise, yet thorough introduction to polymer science for advanced engineering students and practitioners, focusing on the chemical, physical and materials science aspects that are most relevant for engineering applications.

After covering polymer synthesis and properties, the major section of the book is devoted to polymeric materials, such as thermoplastics and polymer composites, polymer processing such as injection molding and extrusion, and methods for large-scale polymer characterization. The text concludes with an overview of engineering plastics. The emphasis throughout is on application-relevant topics, and the author focuses on real-life, industry-relevant polymeric materials.

**Polymer
Science for
Engineers**

Print ISBN: 978-3-527-34131-3 (Cloth) US\$131.95 • Aug 2017 • 350PP



Chemistry & Materials Science

May to August 2017 New Titles

Title	Author	ISBN	Page Reference	Prices (US\$)	Bind	Quantity
Advances in Chemical Physics, Volume 162	Rice, Dinner	978-1-119-32457-7	13	294.95	Cloth	
Advances in Food Diagnostics, 2nd Edition	Toldrá, Nollet	978-1-119-10588-6	14	190.00	Cloth	
Analysis of Food Toxins and Toxicants	Wong, Lewis	978-1-118-99272-2	17	275.00	Cloth	
Analytical Characterization of Biotherapeutics	Lill, Sandoval	978-1-119-05310-1	3	TBA	Cloth	
Applied Biophysics for Drug Discovery	Huddler, Zartler	978-1-119-09948-2	12	145.00	Cloth	
Applied Homogeneous Catalysis with Organometallic Compounds: A Comprehensive Handbook in Four Volumes, 3rd Edition	Cornils, Herrmann, Beller, Paciello	978-3-527-32897-0	6	675.00	Cloth	
Asymmetric Synthesis of Three-Membered Rings	Pellissier, Lattanzi, Dalpozzo	978-3-527-34114-6	9	170.00	Cloth	
Atomic Layer Deposition in Energy Conversion Applications	Bachmann	978-3-527-33912-9	19	165.00	Cloth	
Automation Solutions for Analytical Measurement: Theory, Concepts, and Applications	Fleischer, Thurow	978-3-527-34217-4	3	119.95	Cloth	
Beckett's Industrial Chocolate Manufacture and Use, 5th Edition	Beckett, Fowler, Ziegler	978-1-118-78014-5	14	250.00	Cloth	
Bionanocomposites: Integrating Biological Processes for Bio-inspired Nanotechnologies	Aimé, Coradin	978-1-118-94222-2	18	TBA	Cloth	
Cationic Polymerizations Resource: Volume 1 Non-Living Polymerization of Olefins	Lewis	978-1-118-29036-1	21	TBA	Cloth	
Charged Aerosol Detection for Liquid Chromatography and Related Separation Techniques	Gamache	978-0-470-93778-5	2	134.95	Cloth	
Chemical Reaction Kinetics: Concepts, Methods and Case Studies	Ancheyta	978-1-119-22664-2	6	90.00	Cloth	

Title	Author	ISBN	Page Reference	Prices (US\$)	Bind	Quantity
Chemoselective and Bioorthogonal Ligation Reactions: Concepts and Applications	Algar, Dawson, Medintz	978-3-527-33436-0	13	335.00	Cloth	
Chiral Lewis Acids in Organic Synthesis	Mlynarski	978-3-527-34129-0	6	179.95	Cloth	
Concepts of Modern Catalysis and Kinetics, 3rd, Completely Revised and Enlarged Edition	Chorkendorff, Niemantsverdriet	978-3-527-33268-7	6	95.00	Paper	
Conductive Atomic Force Microscope: Applications in Nanomaterials	Lanza	978-3-527-34091-0	5	165.00	Cloth	
Control of Salmonella and Other Bacterial Pathogens in Low Moisture Foods	Podolak, Black	978-1-119-07108-2	17	199.95	Cloth	
Design of Nanostructures: Self-Assembly of Nanomaterials	Bohidar, Rawat	978-3-527-34333-1	19	205.00	Cloth	
Dictionary of Flavors, 3rd Edition	De Rovira, Sr.	978-1-118-85641-3	16	230.00	Cloth	
Dielectrophoresis: Theory, Methodology and Biological Applications	Pethig	978-1-118-67145-0	2	140.00	Cloth	
Digital Forensics	Årnes	978-1-119-26238-1	2	80.00	Paper	
Edible and Medicinal Mushrooms: Technology and Applications	Cunha Zied, Pardo Giménez	978-1-119-14941-5	15	200.00	Cloth	
Electrocatalysts for Low Temperature Fuel Cells: Fundamentals and Recent Trends	Maiyalagan, Saji	978-3-527-34132-0	7	255.00	Cloth	
Enzyme Kinetics: Principles and Methods, 3rd, Enlarged and Improved Edition	Bisswanger	978-3-527-34251-8	5	167.95	Cloth	
Essential Practices for Developing, Strengthening and Implementing Process Safety Culture	Center for Chemical Process Safety	978-1-119-01015-9	1	TBA	Cloth	
Experimental Organic Chemistry, 3rd Edition	Cranwell, Harwood, Moody	978-1-119-95239-8	10	160.00	Cloth	
Experimental Organic Chemistry, 3rd Edition	Cranwell, Harwood, Moody	978-1-119-95238-1	10	70.00	Paper	

Title	Author	ISBN	Page Reference	Prices (US\$)	Bind	Quantity
Flavor, Satiety and Food Intake	Tepper, Yeomans	978-1-119-04489-5	14	179.95	Cloth	
Fluorescence Microscopy: From Principles to Biological Applications, 2nd Edition	Kubitscheck	978-3-527-33837-5	2	165.00	Cloth	
Food Authentication: Management, Analysis and Regulation	Georgiou, Danezis	978-1-118-81026-2	17	200.00	Cloth	
Food Safety in China: Science, Technology, Management & Regulation	Jen, Chen	978-1-119-23796-9	17	230.00	Cloth	
Food Science and Technology, 2nd Edition	Campbell-Platt	978-0-470-67342-3	16	99.99	Cloth	
Forensic Microbiology	Carter, Tomberlin, Benbow, Metcalf	978-1-119-06255-4	3	120.00	Cloth	
Forensic Science Education and Training	Williams, Cassella, Maskell	978-1-118-68923-3	3	95.00	Cloth	
Fragmentation: Toward Accurate Calculations on Complex Molecular Systems	Gordon	978-1-119-12924-0	7	150.00	Cloth	
Fuels, Chemicals and Materials from the Oceans and Aquatic Sources	Kerton, Yan	978-1-119-11716-2	13	135.00	Cloth	
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