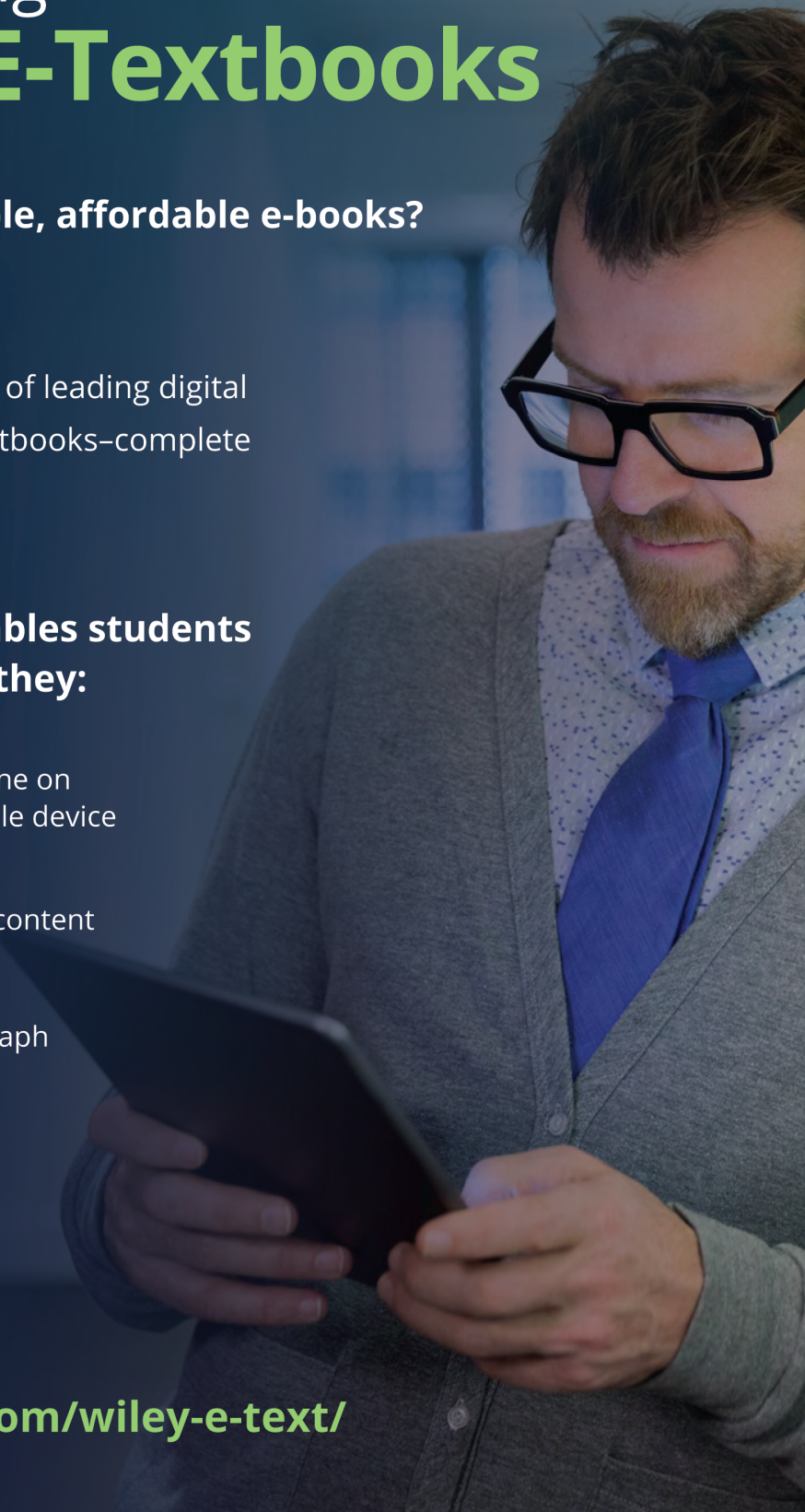


Chemistry & Material Science

May to August 2020





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*All information stated is correct as of 15th January 2020

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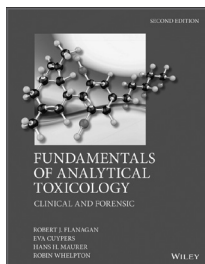
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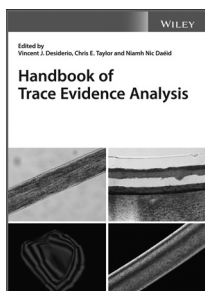
Fundamentals of Analytical Toxicology

Clinical and Forensic, 2nd Edition

Robert J. Flanagan, Eva Cuypers, Hans H. Maurer & Robin Whelpton

Fundamentals of Analytical Toxicology is an integrated introduction to the analysis of drugs, poisons, and other foreign compounds in biological and related specimens. Written by a prominent team of experienced practitioners, this new edition contains thoroughly revised content that reflects contemporary practices and advances in analytical methods. Expanding the scope of the 1995 World Health Organization (WHO) basic analytical toxicology manual, the text includes coverage of separation science, essential pharmacokinetics, xenobiotic absorption, distribution and metabolism, clinical toxicological and substance misuse testing, therapeutic drug monitoring, trace elements and toxic metals analysis, and importantly the clinical interpretation of analytical results. It is an indispensable resource for advanced students and trainee analytical toxicologists across disciplines, such as clinical science, analytical chemistry, forensic science, pathology, applied biology, food safety, and pharmaceutical and pesticide development.

Reference • 9781119122340 • Aug 2020 • Cloth • 656pp • US\$135.00 • Previous ed: 9780470319352

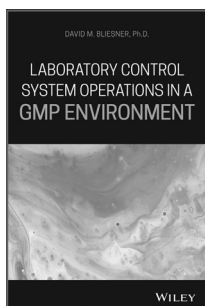


Handbook of Trace Evidence Analysis

Vincent J. Desiderio, Chris E. Taylor & Niamh Nic Daéid

Developed around the need for updated information in the disciplines of trace evidence the *Handbook of Trace Evidence Analysis* focuses on the increasing awareness and need for validation, modern methods for addressing and controlling contamination, the shift towards incorporating statistical analyses into the interpretation phase and cutting edge research into new forensic science methods and their application. The book will appeal to forensic science academics, students, and practitioners in the trace evidence and materials science disciplines, as well as DNA analysts, toxicologists, forensic anthropologists, crime laboratory managers, criminal justice students and practitioners, and legal professionals. It would also be a valuable resource for every crime laboratory reference library.

Reference • 9781118962114 • Jul 2020 • Cloth • 450pp • US\$120.00

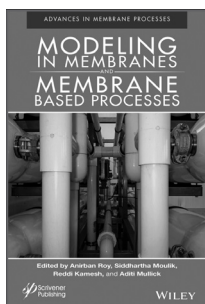


Laboratory Control System Operations in a GMP Environment

David M. Bliesner

In *Laboratory Control System Operations in a GMP Environment*, readers are given the guidance they need to implement a CGMP compliant Laboratory Control System (LCS) that fits within Global Regulatory guidelines. Using the Quality Systems Approach, regulatory agencies like the FDA and the European Medicine Agency have developed a scheme of systems for auditing pharmaceutical manufacturing facilities which includes evaluating the LCS. In this guide, readers learn the fundamental rules for operating a CGMP compliant Laboratory Control System. For quality assurance professionals working within the pharmaceutical or biopharma industries, this text provides the insight and tools necessary to implement government-defined regulations.

Reference • 9781119529231 • May 2020 • Cloth • 352pp • US\$149.95



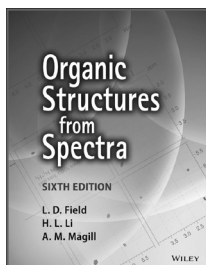
Modeling in Membranes and Membrane-Based Processes

Industrial Scale Separations

Anirban Roy, Siddhartha Moulik, Reddi Kamesh & Aditi Mullick

The book *Modeling in Membranes and Membrane-Based Processes* is based on the idea of developing a reference which will cover most relevant and "state-of-the-art" approaches in membrane modeling. This book explores almost every major aspect of modeling and the techniques applied in membrane separation studies and applications. This includes first principle-based models, thermodynamics models, computational fluid dynamics simulations, molecular dynamics simulations, and artificial intelligence-based modeling for membrane separation processes. These models have been discussed in light of various applications ranging from desalination to gas separation. Whether a veteran engineer in the field or lab or a student in chemical or process engineering, this latest volume in the "Advances in Membrane Processes" is a must-have, along with the first book in the series, *Membrane Processes* (9781119418221).

Reference • 9781119536062 • Mar 2020 • Cloth • 412pp • US\$224.95



Organic Structures from Spectra

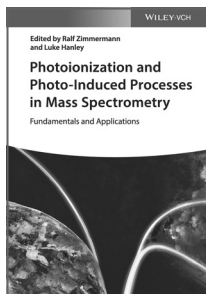
6th Edition

Les Field, H. L. Li & A. M. Magill

Organic Structures from Spectra, 6th Edition is a carefully chosen set of about 250 structural problems employing the major modern spectroscopic techniques, including Mass Spectrometry, 1D and 2D ^{13}C and ^1H NMR Spectroscopy and Infrared Spectroscopy. There are 25 problems specifically dealing with the interpretation of spin-spin coupling in proton NMR spectra and 10 problems based on the quantitative analysis of mixtures using proton and carbon NMR spectroscopy. The accompanying text is descriptive and only explains the underlying theory at a level that is sufficient to tackle the problems. The text includes condensed tables of characteristic spectral properties covering the frequently encountered functional groups.

The Sixth Edition of this popular textbook now incorporates many new problems using 2D NMR spectra, an additional 40 carefully selected basic problems, a selection of problems in the style of the experimental section of a research paper, and examples of fully worked solutions in the appendix – all to prove invaluable for students of Chemistry, Pharmacy and Biochemistry taking a first course in Organic Chemistry.

Reference • 9781119524809 • Jul 2020 • Paper • 500pp • US\$65.00 • Previous ed: 9781118325490



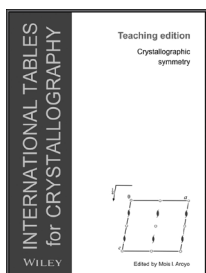
Photoionization and Photo-Induced Processes in Mass Spectrometry

Fundamentals and Applications

Ralf Zimmermann & Luke Hanley

A comprehensive coverage of laser-induced ionization processes for mass spectrometry analysis. Drawing on the expertise of the leading academic and industrial research groups involved in the development of photoionization methods for mass spectrometry, this reference for analytical scientists covers both the theory and current applications of photo-induced ionization processes. It places widely used techniques such as MALDI side by side with more specialist approaches such as REMPI and RIMS, and discusses leading edge developments in ultrashort laser pulse desorption, to give readers a complete picture of the state of the technology. The first general reference book on photoionization techniques for mass spectrometry – Examines technologies and applications of gas phase resonance-enhanced multiphoton ionization mass spectrometry (REMPI-MS) and gas phase resonance ionization mass spectrometry (RIMS), this makes is an excellent book for spectroscopists, analytical chemists, photochemists, physical chemists, and laser specialists.

Reference • 9783527335107 • Aug 2020 • Cloth • 456pp • US\$205.00



Teaching Edition of International Tables for Crystallography

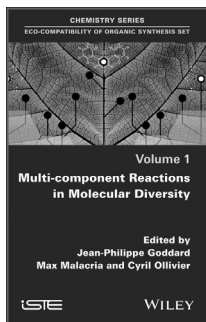
Crystallographic Symmetry, 6th Edition

Mois Aroyo

This sixth edition of what was previously known as the *Brief Teaching Edition of Volume A* provides an introduction to the basic crystallographic data for space groups found in Volume A, for symmetry relations between space groups in Volume A1 and for subperiodic groups in Volume E of *International Tables for Crystallography*, to magnetic space groups and to the symmetry database that forms part of International Tables Online at <https://it.iucr.org>. It is designed for graduate students and young researchers who are new to the field of crystallographic symmetry, and includes many illustrative examples to help readers to understand and use these different kinds of information. Selected tables of symmetry data from the full volumes in the series are also included, making this a handy aid for classroom teaching. References are also provided to further specialized sources for those who need to go deeper into the subject and to textbooks for those who need more background information.

Reference • 9780470974223 • May 2020 • Paper • 250pp • US\$40.00 • Previous ed: 9780470689110

BIOCHEMISTRY (CHEMICAL BIOLOGY)



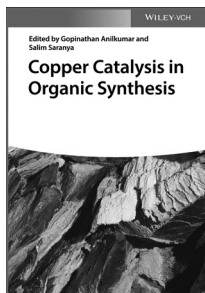
Multi-Component Reactions in Molecular Diversity

Jean-Philippe Goddard, Max Malacria & Cyril Ollivier

While very useful for studying syntheses of molecular diversity, multi-component reactions also offer rapid access to a variety of complex molecules that are relevant for biological applications. *Multi-component Reactions in Molecular Diversity* analyzes these reactions, whether they are realized by organometallic, ionic or even radical processes. It highlights popular methods based on monotype reactions (cascade, tandem, domino) and their efficiency and academic industrial domain are illustrated. This book also investigates the most efficient ways to prepare complex molecules. Multi-component reactions are in tune with the concepts of atom and steps economy, which are of prior importance in all the reported process. The essential criteria for green chemistry are also examined in the book in detail.

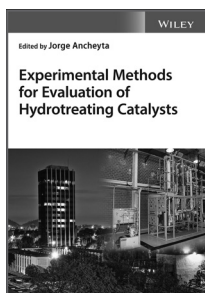
Reference • 9781786305114 • Dec 2019 • Cloth • 198pp • US\$119.95

CATALYSIS

**Copper Catalysis in Organic Synthesis***Gopinathan Anilkumar & Salim Saranya*

Copper is a very versatile metal that can efficiently catalyze a variety of reactions and activate important substrates. It is an earth-abundant and cheap metal, making its use more cost effective and more sustainable than precious transition metal catalysts. The field has grown significantly in recent years and this book covers all important copper-catalyzed reactions applied in organic synthesis, including cross-coupling reactions, C-H activation, and total synthesis of natural products. Organized by reaction type, *Copper Catalysis in Organic Synthesis* is an essential reference for researches in academia and industry working in the fields of organic chemistry, organometallic chemistry, transition metal catalysis, as well as green and sustainable chemistry.

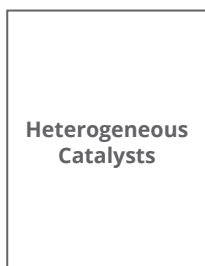
Reference • 9783527347377 • Aug 2020 • Cloth • 448pp • US\$205.00

**Experimental Methods for Evaluation of Hydrotreating Catalysts***Jorge Ancheyta*

Catalytic hydrotreating (HDT) is a process used in the petroleum refining industry for upgrading hydrocarbon streams—removing impurities, eliminating metals, converting asphaltene molecules, and hydrocracking heavy fractions. The major applications of HDT in refinery operations include feed pretreatment for conversion processes, post-hydrotreating distillates, and upgrading heavy crude oils. Designing HDT processes and catalysts for successful commercial application requires experimental studies based on appropriate methodologies. *Experimental Methods for Evaluation of Hydrotreating Catalysts* provides detailed descriptions of experiments in different reaction scales for studying the hydrotreating of various petroleum distillates.

It is an indispensable reference for researchers and professionals working in the area of catalytic hydrotreating, as well as an ideal textbook for courses in fields such as chemical engineering, petrochemical engineering, and biotechnology.

Reference • 9781119517993 • Apr 2020 • Cloth • 432pp • US\$165.00

**Heterogeneous Catalysts**

Emerging Techniques for Design, Characterization And Applications

Wey Yang Teoh, Atsushi Urakawa, Yun Hau Ng & Patrick Sit

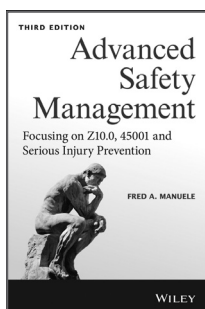
The book focuses on emerging techniques in heterogeneous catalysis, from new methodology for catalysts design and synthesis, surface studies and operando spectroscopies, ab initio techniques, to critical catalytic systems as relevant to energy and the environment. It provides the vision of addressing the foreseeable knowledge gap unfilled by classical knowledge in the field.

Wey Yang Teoh is Associate Professor in the School of Energy and Environment at the City University of Hong Kong, China. He is the recipient of the Joseph Wang Award in Nanomaterials in 2016. His research interests focus on energy and environmental-related heterogeneous catalysis and he has published more than 60 scientific papers.

Patrick Sit is Assistant Professor in the School of Energy and Environment at City University of Hong Kong, China. His research is focused on fundamental reaction processes in energy-related systems.

Reference • 9783527344154 • Aug 2020 • Cloth • 768pp • US\$405.00

CHEMICAL AND ENVIRONMENTAL HEALTH AND SAFETY

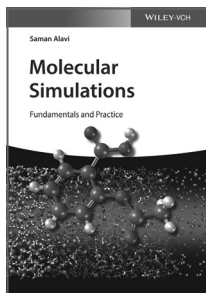
**Advanced Safety Management**

Focusing On Z10.0, 45001 and Serious Injury Prevention, 3rd Edition

Fred Manuele

Filled with updated chapters and information throughout, this book covers the provisions of ANSI/ASSP Z10.0-2019, the American standard for Occupational Health and Safety Management Systems. It expands in detail on the principles for advanced safety management, the content of the revised Z10.0 standard, and the newly adopted international standard, ISO 45001. It also emphasizes the need to reduce the occurrence of serious injuries, illnesses, and fatalities. *Advanced Safety Management* is an important book for safety professionals, industrial hygienist, plant managers, OSHA and EPA advocates, students majoring in safety or industrial hygiene, and union leaders.

Reference • 9781119605416 • Mar 2020 • Cloth • 560pp • US\$109.95 • Previous ed: 9781118645680



Molecular Simulations

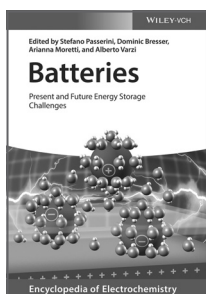
Fundamentals and Practice

Saman Alavi

Molecular modeling has become a standard tool in the natural sciences with wide-ranging applications such as drug design, protein folding and optimization of material properties. It often complements "wet-lab" experiments thereby bridging the gap to theoretical work. This book introduces the fundamentals of molecular simulations for a broad, practice-oriented audience and presents a thorough overview of the underlying concepts. It covers classical mechanics for many-molecule systems as well as force-field models in classical molecular dynamics; introduces probability concepts and statistical mechanics; and analyzes numerous simulation methods, techniques, and applications. *Molecular Simulations: Fundamentals and Practice* is an excellent book benefitting chemist, biologists, engineers as well as materials scientists and those involved in biotechnology.

Reference • 9783527341054 • Jun 2020 • Paper • 352pp • US\$120.00

ELECTROCHEMISTRY



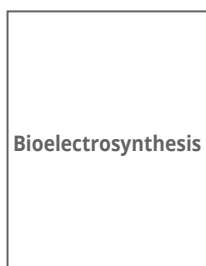
Batteries

Present and Future Energy Storage Challenges

Stefano Passerini, Dominic Bresser, Arianna Moretti & Alberto Varzi

This handbook, as new volume within the Encyclopedia of Electrochemistry, and with contributions from renowned international experts in the field, offers a comprehensive, up-to-date and in-depth overview of presently employed battery technologies and the most promising candidates for further enhanced energy and power densities. It includes chapters on established battery technologies such as lead acid, lithium ion, and 'charge-carrier'-based, as well as chapters on current developments on new technologies such as lithium-sulfur and -oxygen, sodium ion, and full organic batteries.

Reference • 9783527345762 • Aug 2020 • Cloth • 900pp • US\$471.84



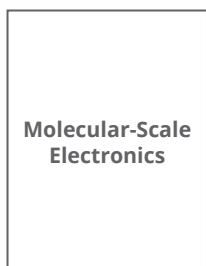
Bioelectrosynthesis

Principles and Technologies for Value-Added Products

Aijie Wang, Wenzong Liu, Bo Zhang & Weiwei Cai

The book systemically introduces the hot issues including potential value-added products via bioelectrochemical system, reactor development of bioelectrosynthesis, and microbial biology on biofilm communities and metabolism pathways. It will provide unique viewpoints on basic principles and mechanisms, new development on reactor and microbial ecology, giving a different view of main facets of bioelectrosynthesis.

Reference • 9783527343782 • Jul 2020 • Cloth • 424pp • US\$164.97



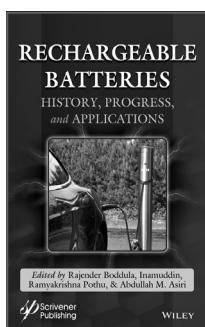
Molecular-Scale Electronics

Concept, Fabrication and Applications

Xuefeng Guo, Xiang Dong & Yu Li

This comprehensive book covers the major advances with the most general applicability in the field of molecular electronic devices. It emphasizes new insights into the development of efficient platform methodologies for building such reliable devices with desired functionalities through the combination of programmed bottom-up self-assembly and sophisticated top-down device fabrication. It also helps to develop an understanding of the device fabrication processes and the characteristics of the resulting electrode-molecule interface. *Molecular-Scale Electronics* is an excellent book for materials scientists, electrochemists, electronics engineers, physical chemists, polymer chemists, and solid-state chemists. It will also benefit physicists, semiconductor physicists, engineering scientists, and surface chemists.

Reference • 9783527345489 • Jul 2020 • Cloth • 408pp • US\$164.97



Rechargeable Batteries

History, Progress and Applications

Rajender Boddula, Inamuddin, Ramyakrishna Pothu & Abdullah M. Asiri

As global dependence on fossil fuels slowly wanes, there is a heavier and heavier importance placed on cleaner power sources and methods for storing and transporting that power. Battery technology is a huge part of this global energy revolution. *Rechargeable Batteries: History, Progress, and Applications* outlines the history, development, future, and applications for rechargeable batteries for energy storage applications. It also provides an in-depth description of various energy storage materials and is an invaluable reference guide for electrochemists, chemical engineers, students, faculty, and R&D professionals in energy storage science, material science, and renewable energy. This is a must-have for any engineer's library who works with batteries and energy storage.

Reference • 9781119661191 • Mar 2020 • Cloth • 492pp • US\$224.95

ENVIRONMENTAL CHEMISTRY

Elements of Environmental Chemistry

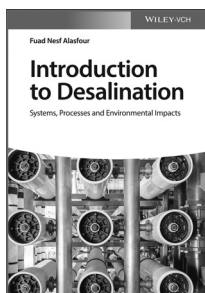
Elements of Environmental Chemistry

3rd Edition

Ronald Hites & Jonathan D. Raff

A practical approach to environmental chemistry, *Elements of Environmental Chemistry, 3rd Edition* provides readers with the fundamentals of environmental chemistry and a toolbox for putting them into practice. This is a concise, accessible, and hands-on volume designed for students and professionals working in the chemical and environmental sciences. The third edition has been completely revised and rearranged to expand on previously covered topics and include new problem sets and new chapters on the physical partitioning and chemical transformations of organic compounds in the environment.

Reference • 9781119434870 • Aug 2020 • Cloth • 288pp • US\$79.95 • Previous ed: 9781118041550



Introduction to Desalination

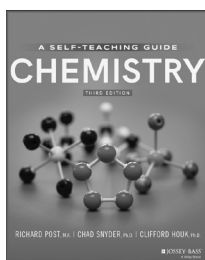
Systems, Processes and Environmental Impacts

Fuad Nesf Alasfour

With a growing population, climate change and greater water demand, desalination has increasingly become a part of the solution to regional water scarcity - seawater desalination capacity has roughly doubled in the past ten years. Desalination has also begun to receive more attention in academia, with research focusing on improving energy efficiency and system robustness and lowering capital costs. With this book, an introduction is given to the basics and fundamentals of desalination systems. Both, thermal and membrane desalination systems, are covered and discussed in view of energy, exergy, economic and environmental aspects. Each chapter contains theoretical and practical examples and concludes with questions and problems for self-study.

Reference • 9783527343577 • Jun 2020 • Cloth • 368pp • US\$119.95

GENERAL & INTRODUCTORY CHEMISTRY



Chemistry

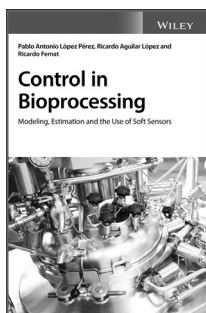
A Self-Teaching Guide, 3rd Edition

Richard Post, Chad Snyder & Clifford C. Houk

Did you know that all of the elements in the known cosmos can be listed in a table on a single sheet of paper and that chemical combinations of those elements make up the thousands of substances that we interact with every day from space craft propulsion to the batteries in our electric cars? That's chemistry. This book will help you to understand the concepts and principles of chemistry and chemical reactions in a manner that allows you to read a short section and then interact with that information in a way that will reinforce what you just learned in a step-by-step tutorial manner. It's designed so that you can learn the subject on your own at your own pace and is complete with self-tests and references for review. About the only requirement is some basic high school math. The book covers most of a typical college-level course in general chemistry and gently leads a student to deeper levels and concepts with practice, critical thinking, problem solving and self-assessment at every stage.

Trade • 9781119632566 • Jul 2020 • Paper • 368pp • US\$24.95 • Previous ed: 9780471121206

INDUSTRIAL CHEMISTRY

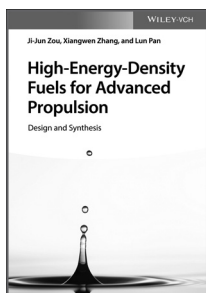
**Control in Bioprocessing**

Modeling, Estimation and The Use of Soft Sensors

Pablo López Pérez, Ricardo Aguilar López & Ricardo Femat

This book presents the most commonly employed approaches in the control of bioprocesses. It discusses the role that control theory plays in understanding the mechanisms of cellular and metabolic processes, and presents key results in various fields such as dynamic modeling, dynamic properties of bioprocess models, software sensors designed for the online estimation of parameters and state variables, and control and supervision of bioprocesses. *Control in Bioengineering and Bioprocessing* is intended as a foundational text for graduate level students in bioengineering, as well as a reference text for researchers, engineers, and other practitioners interested in the field of estimation and control of bioprocesses.

Reference • 9781119295990 • Apr 2020 • Cloth • 400pp • US\$140.00

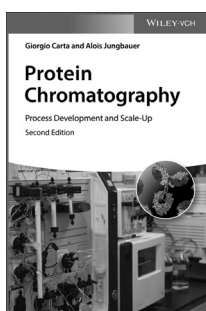
**High-Energy-Density Fuels for Advanced Propulsion**

Design and Synthesis

Ji-Jun Zou, Xiangwen Zhang & Lun Pan

This book comprehensively and systematically demonstrates the theory and practice of designing, synthesizing and improving the performance of fuels, and connect the rod from the past, current and future of fuel chemistry and technology. The contents range from polycycloalkane fuels, strained fuels, alky-diamondoid fuels, hypergolic and nanofluid fuels derived from fossil and biomass. All the chapters together clearly describe the important aspects of HED fuels including molecular design, synthesis route, physiochemical properties, and their application in improving the aircraft performance. Vivid schematics and illustrations throughout the book enhance the accessibility to the relevant theory and technologies. It will provide the readers with fundamentals on high-energy-density fuels, their potential in advanced aerospace propulsion, and inspirations for new development of advanced aerospace fuels.

Reference • 9783527346691 • Jul 2020 • Cloth • 520pp • US\$176.04

**Protein Chromatography**

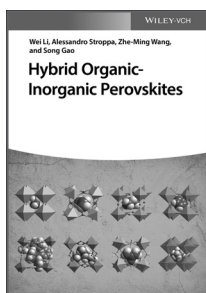
Process Development and Scale-Up, 2nd Edition

Giorgio Carta & Alois Jungbauer

An all-in-one practical guide on how to efficiently use chromatographic separation methods. Based on a training course that teaches the theoretical as well as practical aspects of protein bioseparation to bioprocess professionals, this fully updated and revised new edition offers comprehensive coverage of continuous chromatography and provides readers with many relevant examples from the biopharmaceutical industry. With field-tested information as reference, *Protein Chromatography* will appeal to biotechnologists, analytical chemists, chromatographers, chemical engineers, pharmaceutical industry, biotechnological industry, and biochemists.

Reference • 9783527346660 • Apr 2020 • Cloth • 432pp • US\$165.00 • Previous ed: 9783527318193

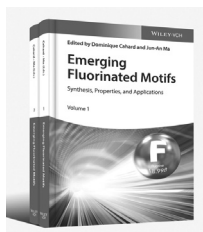
INORGANIC CHEMISTRY

**Hybrid Organic-Inorganic Perovskites**

Wei Li, Alessandro Stroppa, Song Gao, Zhiming Wang & Anthony K. Cheetham

This book summarizes the chemical variability and structural diversity of all known hybrid organic-inorganic perovskites subclasses including halides, azides, formates, dicyanamides, cyanides and dicyanometallates. It also presents a comprehensive account of their intriguing physical properties, including photovoltaic and optoelectronic properties, dielectricity, magnetism, ferroelectricity, ferroelasticity and multiferroicity. Moreover, the current challenges and future opportunities in this exciting field have also been discussed. Such a timely book will definitely show the readers a complete landscape of hybrid organic-inorganic perovskites and associated multifunctionalities.

Reference • 9783527344314 • Jul 2020 • Cloth • 312pp • US\$153.90

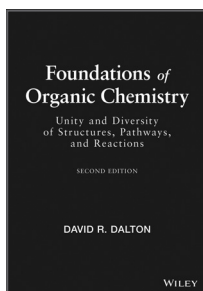


Emerging Fluorinated Motifs Synthesis, Properties and Applications

Dominique Cahard & Jun-An Ma

Fluorinated compounds are commonly used in the areas of pharmaceuticals, agrochemicals and materials for their excellent performances. Great efforts have been made in the construction of fluorinated compounds and it has become one of the hot research areas in organic chemistry. This timely two-volume set uniquely focuses on emerging fluorinated motifs beyond R-CF₃ and R-F, like R-CF₂H, R-OCF₃, R-SCF₃ and R-SF₅. It also offers descriptions of the properties, synthesis, and applications of these emerging fluorinated motifs in order to help readers design new chemical entities, while providing new interest for researchers in organofluorine chemistry and new tools for those in other areas. Edited by world-renowned experts in organofluorine chemistry, *Emerging Fluorinated Motifs* will appeal to academic and industrial researchers working in organic chemistry, medicinal chemistry, food chemistry, and materials science.

Reference • 9783527346813 • May 2020 • Cloth • 760pp • US\$190.00



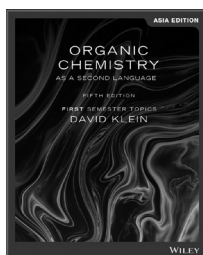
Foundations of Organic Chemistry

Unity and Diversity of Structures, Pathways, and Reactions, 2nd Edition

David Dalton

Foundations of Organic Chemistry is a substantive guide for students beginning their study of organic chemistry and instructors, as well as senior undergraduates and graduate students seeking to further their understanding of the subject. In this work, the emphasis of the discussion of structures, pathways, and reactions is placed on the original literature and the fundamentals and use of spectroscopic and kinetic tools. Application of the resulting working knowledge of the substance of organic chemistry will lead the serious student to ask additional questions and, ultimately, to solve problems we face. The book includes solutions guides for instructors and lecturers, as well as access to a companion website for furthering the reader's knowledge of organic chemistry.

Reference • 9781119656425 • Jun 2020 • Cloth • 1360pp • US\$174.95 • Previous ed: 9780470479087

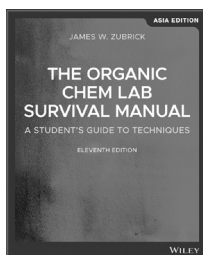


Organic Chemistry as A Second Language, First Semester Topics 5th Edition Asia Edition

David Klein

Covering the initial half of the course, *Organic Chemistry as a Second Language: First Semester Topics* reviews critical principles and explains their relevance to the rest of the course. Each section provides hands-on exercises and step-by-step explanations to help students fully comprehend classroom lectures and textbook content. Now in its fifth edition, this valuable study resource covers the characteristics of molecules, the nature of atomic bonds, the relationships between different types of molecules, drawing and naming molecules, and essential molecular reactions.

Textbook • 9781119668039 • Oct 2019 • Paper • 408pp • US\$75.95



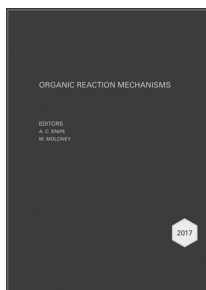
The Organic Chem Lab Survival Manual

A Student's Guide to Techniques, 11th Edition Asia Edition

James Zubrick

The Organic Chem Lab Survival Manual helps students understand the basic techniques, essential safety protocols, and the standard instrumentation necessary for success in the laboratory. Author James W. Zubrick has been assisting students navigate organic chemistry labs for more than three decades, explaining how to set up the laboratory, make accurate measurements, and perform safe and meaningful experiments. Now in its eleventh edition, this guide has been thoroughly updated to cover current laboratory practices, instruments, and techniques. Focusing primarily on macroscale equipment and experiments, chapters cover microscale jointware, drying agents, recrystallization, distillation, nuclear magnetic resonance, and much more.

Textbook • 9781119672845 • Jan 2020 • Paper • 288pp • US\$75.95



Organic Reaction Mechanisms 2017

An Annual Survey Covering the Literature Dated January to December 2017

A. Knipe & Mark G. Moloney

Organic Reaction Mechanisms 2017, the 53rd annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2017. The following classes of organic reaction mechanisms are comprehensively reviewed:

- Reaction of Aldehydes and Ketones and their Derivatives
- Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives
- Oxidation and Reduction
- Carbenes and Nitrenes
- Nucleophilic Aromatic Substitution
- Electrophilic Aromatic Substitution
- Carbocations
- Nucleophilic Aliphatic Substitution
- Carbanions and Electrophilic Aliphatic Substitution
- Elimination Reactions
- Polar Addition Reactions
- Cycloaddition Reactions
- Molecular Rearrangements

Reference • 9781119426196 • May 2020 • Cloth • 672pp • US\$565.00

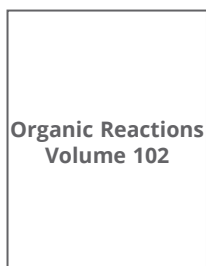


Organic Reactions Volume 101

P. Andrew Evans

The 101st volume in this series for organic chemists in academia and 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.

Reference • 9781119644774 • Feb 2020 • Cloth • 992pp • US\$349.95

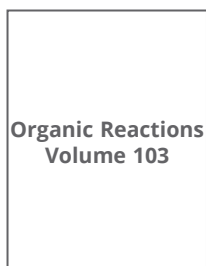


Organic Reactions Volume 102

P. Andrew Evans

The 102nd volume in this series for organic chemists in academia and 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.

Reference • 9781119651222 • May 2020 • Cloth • 750pp • US\$349.95

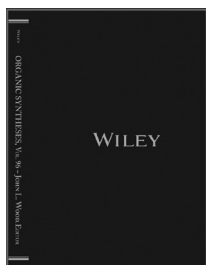


Organic Reactions Volume 103

P. Andrew Evans

The 103rd volume in this series for organic chemists in academia and 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.

Reference • 9781119651253 • Aug 2020 • Cloth • 750pp • US\$349.95



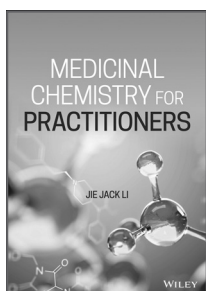
Organic Syntheses, Volume 96

John Wood

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. A trusted guide for professionals in organic and medicinal chemistry in academia, government, and industries, including pharmaceuticals, fine chemicals, agrochemicals, and biotechnological products.

Reference • 9781119707769 • May 2020 • Cloth • 636pp • US\$194.95

PHARMACEUTICAL & MEDICINAL CHEMISTRY

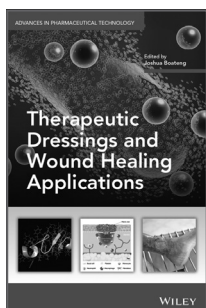


Medicinal Chemistry For Practitioners

Jie Jack Li

Presenting both a panoramic introduction to the essential disciplines of drug discovery for novice medicinal chemists as well as a useful reference for veteran drug hunters, this book summarizes the state-of-the-art of medicinal chemistry. It covers key drug targets including enzymes, receptors, and ion channels, and hit and lead discovery. The book then surveys a drug's pharmacokinetics and toxicity, with a solid chapter covering fundamental bioisosteres as a guide to structure-activity relationship investigations.

Reference • 9781119607281 • Jun 2020 • Cloth • 400pp • US\$174.95



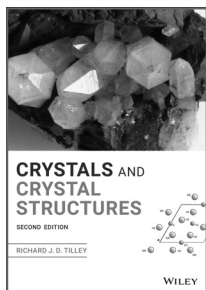
Therapeutic Dressings and Wound Healing Applications

Joshua Boateng

The healing of chronic wounds is a global medical concern, specifically for patients suffering from obesity and type II diabetes. *Therapeutic Dressing and Wound Healing Applications* is an essential text for research labs, industry professionals, and general clinical practitioners that want to make the shift towards advanced therapeutic dressing and groundbreaking wound application for better healing. This book takes a clinical and scientific approach to wound healing, and includes recent case studies to highlight key points and areas of improvement. It is divided into two key sections that include insight into the biochemical basis of wounds, as well as techniques and recent advancements. Chapters include information on:

Reference • 9781119433262 • Jan 2020 • Cloth • 432pp • US\$190.00

PHYSICAL CHEMISTRY



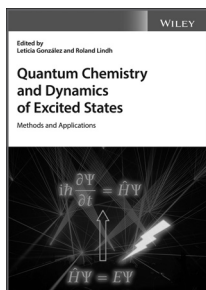
Crystals and Crystal Structures

2nd Edition

Richard Tilley

Written in a friendly, non-mathematical style, the updated second edition of *Crystals and Crystal Structures* offers a comprehensive exploration of the key elements of crystals and crystal structures. Starting with the basics, it includes information on multiple areas of crystallography, including modulated structures, quasicrystals and protein crystallography, and interdisciplinary applications as diverse as the relationship between physical properties and symmetry. Written for students of crystallography, chemistry, physics, materials science, biosciences and geology, *Crystals and Crystal Structures, Second Edition* provides an understanding of the subject and enables students to read scientific papers and articles describing a crystal structure or use crystallographic databases.

Reference • 9781119548386 • Jul 2020 • Paper • 350pp • US\$90.00 • Previous ed: 9780470018217



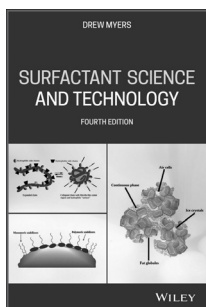
Quantum Chemistry and Dynamics Of Excited States

Methods and Applications

Leticia González & Roland Lindh

For academic researchers, postdocs, graduate and undergraduate students, *Quantum Chemistry and Dynamics of Excited States: Methods and Applications* reports the most updated and accurate theoretical techniques to treat electronic excited states. From methods to deal with stationary calculations through time-dependent simulations of molecular systems, this book serves as a guide for beginners in the field and knowledge seekers alike. Taking into account the most recent theory developments and representative applications, it also covers the often-overlooked gap between theoretical and computational chemistry.

Reference • 9781119417750 • Jun 2020 • Cloth • 718pp • US\$285.00



Surfactant Science and Technology

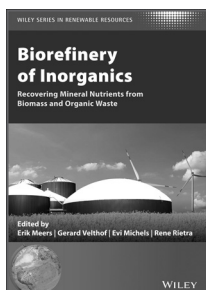
4th Edition

Drew Myers

A surfactant is briefly defined as a material that reduces the surface tension between two immiscible (unmixable) liquids. A solid introduction to the field of surfactant science, this new edition provides updated information about surfactant uses, structures, and preparation, as well as seven new chapters expanding on technology applications. The book assumes no prior knowledge of the topic, and is aimed at students and professionals (beginners and non-specialists) who need a basic understanding of the topic and its potential applications.

Reference • 9781119465850 • Jul 2020 • Cloth • 400pp • US\$194.95 • Previous ed: 9780471680246

SUSTAINABLE CHEMISTRY & GREEN CHEMISTRY



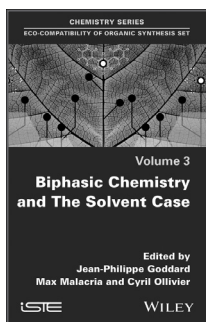
Biorefinery of Inorganics

Recovering Mineral Nutrients from Biomass and Organic Waste

Erik Meers, Gerard Velthof, Evi Michels, Rene Rietra & Christian V. Stevens

Complete coverage of the recovery of mineral nutrients from biomass and organic waste. This book presents a comprehensive overview of the potential for mineral recovery from wastes, addressing technological issues as well as economic, ecological, and agronomic full-scale field assessments. It serves as a complete reference work for experts in the field and provides teaching material for future experts specializing in environmental technology sectors. Edited by leading experts in the field *Biorefinery of Inorganics* is an ideal book for scientists, environmental engineers, and end-users in the agro-industry, the waste industry, water and wastewater treatment, and agriculture. It will also be of great benefit to policy makers and regulators working in these fields.

Reference • 9781118921456 • May 2020 • Cloth • 396pp • US\$185.00

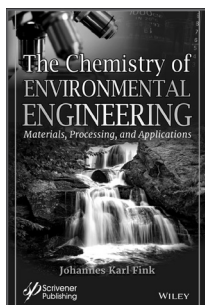


Biphasic Chemistry and The Solvent Case

Jean-Philippe Goddard, Max Malacria & Cyril Ollivier

Biphasic Chemistry and The Solvent Case examines recent improvements in reaction conditions, in order to affirm the role of chemistry in the sustainable field. This book shows that those who work within the chemistry industry support limits for the use of toxic or flammable solvents, since it reduces the purifications to simple filtrations. Thanks to commercial scavengers, solid phase syntheses are now available to all. Fluorine biphasic catalysis enables extremely efficient catalyst recycling and has a high applicability potential at the industrial level. It also reviews the many studies that have shown that water is a solvent of choice for most synthetic reactions. Particular traits can be obtained and the effects on thermodynamics make it possible to operate at lower temperatures, thereby achieving energy savings. Finally the great diversity of application of the reactions without solvents is illustrated.

Reference • 9781786305091 • Jan 2020 • Cloth • 230pp • US\$134.95



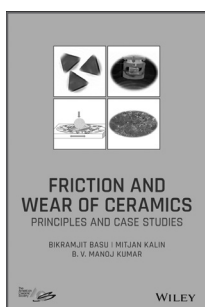
The Chemistry of Environmental Engineering

Johannes Fink

The focus of this book is the chemistry of environmental engineering and its applications, with a special emphasis on the use of polymers in this field. It explores the creation and use of polymers with special properties such as viscoelasticity and interpenetrating networks; examples of which include the creation of polymer-modified asphalt as well as polymers with bacterial adhesion properties. The text contains the issues of polymerization methods, recycling methods, wastewater treatment, types of contaminants, such as microplastics, organic dyes, and pharmaceutical residues. This book will serve the needs of industry and environmental engineers, polymer scientists as well as other specialists who have only a passing knowledge of the plastics and composites industries but need to know more.

Reference • 9781119707745 • Mar 2020 • Cloth • 336pp • US\$194.95

CERAMICS



Friction and Wear of Ceramics

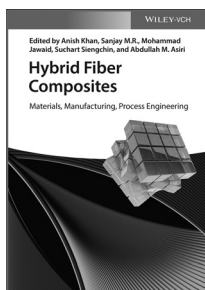
Principles and Case Studies

Bikramjit Basu, Mitjan Kalin & B. V. Manoj Kumar

Tribology is the science and technology of interacting surfaces in relative motion. It includes the study and application of the principles of friction, lubrication and wear. Advanced ceramics are considered for the use in extreme tribological conditions, because of their unique combination of superior properties. *Friction and Wear of Ceramics* covers fundamental concepts in friction and wear of engineering ceramics and coatings together with the processing approaches. In order to understand possible correlations among the microstructure, properties and wear behavior, a number of case studies are presented.

Reference • 9781119538387 • Jun 2020 • Cloth • 640pp • US\$184.95

COMPOSITES



Hybrid Fiber Composites

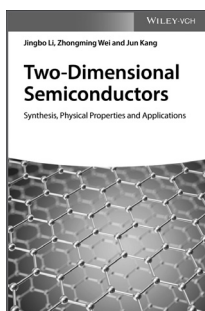
Materials, Manufacturing, Process Engineering

Anish Khan, Sanjay M. Rangappa, Mohammad Jawaid, Suchart Siengchin & Abdullah M. Asiri

After an overview of the general structures and properties of hybrid fiber composites, the book focuses on the manufacturing and processing of these materials and their mechanical performance, including the elucidation of failure mechanisms. A comprehensive chapter on the modeling of hybrid fiber composites from micromechanical properties to macro-scale material behavior is followed by a review of applications of these materials in structural engineering, packaging, and the automotive and aerospace industries.

Reference • 9783527346721 • Jul 2020 • Cloth • 432pp • US\$205.00

ELECTRONIC MATERIALS



Two-Dimensional Semiconductors

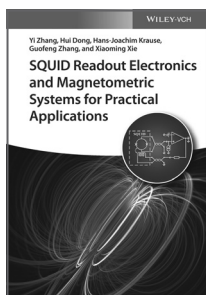
Synthesis, Physical Properties and Applications

Jingbo Li

The book provides in-depth view of two-dimensional (2D) semiconductors from theoretical studies, properties to applications, taking into account the current state of research and development. It introduces various preparation methods and describes in detail the physical properties of 2D semiconductors including 2D alloys and heterostructures. The covered applications include, but are not limited to field-effect transistors, spintronics, solar cells, photodetectors, light-emitting diode, sensors and bioelectronics. *Two-Dimensional Semiconductors* is written for materials scientists, semiconductor and solid state physicists, electrical engineers, and readers working in the semiconductor industry.

Reference • 9783527344963 • Apr 2020 • Cloth • 192pp • US\$150.00

MATERIALS CHARACTERIZATION

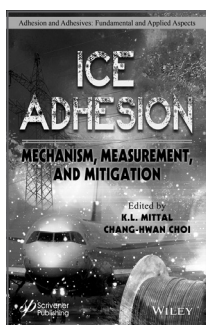
**SQUID Readout Electronics and Magnetometric Systems for Practical Applications**

Xiaoming Xie, Hui Dong, Guofeng Zhang, Yi Zhang & Hans-Joachim Krause

SQUID is an abbreviation for superconducting quantum interference device. They are very sensitive magnetometers used to measure extremely subtle magnetic fields, based on superconducting loops containing Josephson junctions. SQUIDs are increasingly developing into an enabling technology for applications such as biomagnetic imaging and geophysical prospecting. The working principles and phenomena the SQUID technology is based on are not so easy to understand by those, who want to use the technology for specific applications. This book builds a bridge for scientists and engineers to fill potential know-how gaps for all working together on SQUID systems and their practical applications. Key words like readout electronics, flux quantization, Josephson effects or noise contributions will be no obstacle for the design and use of simple and robust SQUID systems.

Reference • 9783527344888 • Jul 2020 • Cloth • 264pp • US\$102.15

METALS & ALLOYS

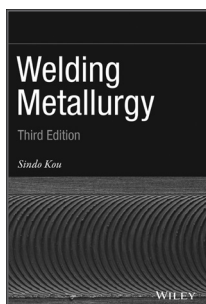
**Ice Adhesion**

Mechanism, Measurement and Mitigation

K. Mittal & Chang-Hwan Choi

This unique book presents ways to mitigate the disastrous effects of snow/ice accumulation and discusses the mechanisms of new coatings deicing technologies. *Ice Adhesion* contains 18 chapters divided into three parts: Part 1: Fundamentals of Ice Formation and Ice Characteristics; Part 2: Ice Adhesion and Its Measurement; and Part 3: Methods to Mitigate Ice Adhesion. The book will be of value to surface scientists, materials scientists, nanotechnologists, coatings technologists, meteorologists and those concerned with the detrimental effects in the aviation, shipping, railway, power transmission and refrigeration industries.

Reference • 9781119640370 • Mar 2020 • Cloth • 350pp • US\$224.95

**Welding Metallurgy**

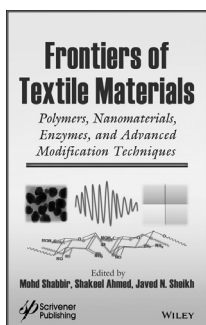
3rd Edition

Sindo Kou

Welding Metallurgy by Sindo Kou has been used worldwide as a reference book for welding practitioners and researchers since it was published in 1987. The third edition provides many updated features including a simple criterion for predicting effect of filler metals on liquation cracking, an index and analytical equations for predicting susceptibility to solidification cracking, a test for evaluating susceptibility to solidification cracking and filler-metal effect, and more. New topics touched on by the author include weldability of magnesium alloys, friction stir welding, and transport phenomena such as surfactant effect on flow oscillation, metal-vapor effect on arc temperature and weld shape, and spatter.

Reference • 9781119524816 • Jun 2020 • Cloth • 672pp • US\$149.95 • Previous ed: 9780470252345

NANOMATERIALS

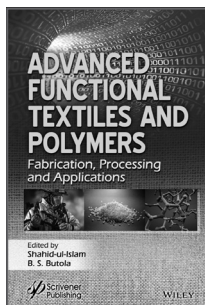
**Frontiers of Textile Materials**

Polymers, Nanomaterials, Enzymes, and Advanced Modification Techniques

Mohd Shabbir, Shakeel Ahmed & Javed N. Sheikh

Frontiers of Textile Materials deals with the important materials that can be utilized for value-addition, advancement and functionalization of textile materials. The topics covered in this book includes the materials like enzymes, polymers, etc. that are utilized for conventional textile processing and the advanced materials like nanoparticles which are expected to change the horizons of textiles. The futuristic techniques for textile processing like plasma are also discussed.

Reference • 9781119620372 • Mar 2020 • Cloth • 384pp • US\$224.95



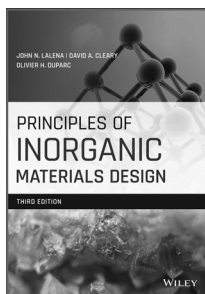
Advanced Functional Textiles and Polymers

Fabrication, Processing and Applications

Shahid Ul-Islam & B. S. Butola

This book on advanced functional textiles and polymers will offer a comprehensive view of cutting-edge research in newly discovered areas such as flame retardant textiles, antimicrobial textiles, insect repellent textiles, aroma textiles, medical-textiles, smart textiles, and nano-textiles etc. The second part the book provides innovative fabrication strategies, unique methodologies and overview of latest novel agents employed in the research and development of functional polymers.

Reference • 9781119605799 • Oct 2019 • Cloth • 462pp • US\$224.95 • Print-on-demand



Principles of Inorganic Materials Design

3rd Edition

John Lalena, David A. Cleary & Olivier Hardouin Duparc

Study of material science is an important aspect of curricula at universities worldwide. This text is designed to serve students at a fundamental level, positioning material design as an essential aspect of the study of electronics, medicine, and energy storage. Now in its 3rd edition, *Principles of Inorganic Material Design* is an introduction to relevant topics including inorganic materials structure/property relations and material behaviors. The new edition now includes chapters on computational materials science, intermetallic compounds, and covalent compounds. The text is meant to aid students in their studies by providing additional tools to study the key concepts and understand recent developments in materials research.

Reference • 9781119486831 • May 2020 • Cloth • 752pp • US\$TBA • Previous ed: 9780470404034

Chemistry & Materials Science

May to August 2020 New Titles

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
Advanced Functional Textiles and Polymers: Fabrication, Processing and Applications	Ul-Islam, Butola	9781119605799	13	Cloth	224.95	
Advanced Safety Management: Focusing On Z10.0, 45001 and Serious Injury Prevention, 3rd Edition	Manuele	9781119605416	3	Cloth	109.95	
Batteries: Present and Future Energy Storage Challenges	Passerini, Bresser, Moretti, Varzi	9783527345762	4	Cloth	471.84	
Bioelectrosynthesis: Principles and Technologies for Value-Added Products	Wang, Liu, Zhang, Cai	9783527343782	4	Cloth	164.97	
Biorefinery of Inorganics: Recovering Mineral Nutrients from Biomass and Organic Waste	Meers, Velthof, Michels, Rietra, Stevens	9781118921456	10	Cloth	185.00	
Biphasic Chemistry and The Solvent Case	Goddard, Malacria, Ollivier	9781786305091	10	Cloth	134.95	
Chemistry: A Self-Teaching Guide, 3rd Edition	Post, Snyder, Houk	9781119632566	5	Paper	24.95	
Control in Bioprocessing: Modeling, Estimation and The Use of Soft Sensors	Pérez, López, Femat	9781119295990	6	Cloth	140.00	
Copper Catalysis in Organic Synthesis	Anilkumar, Saranya	9783527347377	3	Cloth	205.00	
Crystals and Crystal Structures, 2nd Edition	Tilley	9781119548386	9	Paper	90.00	
Elements of Environmental Chemistry, 3rd Edition	Hites, Raff	9781119434870	5	Cloth	79.95	
Emerging Fluorinated Motifs: Synthesis, Properties and Applications	Cahard, Ma	9783527346813	7	Cloth	190.00	
Experimental Methods for Evaluation of Hydrotreating Catalysts	Ancheyta	9781119517993	3	Cloth	165.00	
Foundations of Organic Chemistry: Unity and Diversity of Structures, Pathways, and Reactions, 2nd Edition	Dalton	9781119656425	7	Cloth	174.95	
Friction and Wear of Ceramics: Principles and Case Studies	Basu, Kalin, Kumar	9781119538387	11	Cloth	184.95	
Frontiers of Textile Materials: Polymers, Nanomaterials, Enzymes, and Advanced Modification Techniques	Shabbir, Ahmed, Sheikh	9781119620372	12	Cloth	224.95	
Fundamentals of Analytical Toxicology: Clinical and Forensic, 2nd Edition	Flanagan, Cuypers, Maurer, Whelpton	9781119122340	1	Cloth	135.00	
Handbook of Trace Evidence Analysis	Desiderio, Taylor, Daéid	9781118962114	1	Cloth	120.00	
Heterogeneous Catalysts: Emerging Techniques for Design, Characterization And Applications	Teoh, Urakawa, Ng, Sit	9783527344154	3	Cloth	405.00	
High-Energy-Density Fuels for Advanced Propulsion: Design and Synthesis	Zou, Zhang, Pan	9783527346691	6	Cloth	176.04	
Hybrid Fiber Composites: Materials, Manufacturing, Process Engineering	Khan, Rangappa, Jawaaid, Siengchin, Asiri	9783527346721	11	Cloth	205.00	
Hybrid Organic-Inorganic Perovskites	Li, Stroppa, Gao, Wang, & Cheetham	9783527344314	6	Cloth	153.90	
Ice Adhesion: Mechanism, Measurement and Mitigation	Mittal, Choi	9781119640370	12	Cloth	224.95	
Introduction to Desalination: Systems, Processes and Environmental Impacts	Alasfour	9783527343577	5	Cloth	119.95	
Laboratory Control System Operations in a GMP Environment	Bliesner	9781119529231	1	Cloth	149.95	
Medicinal Chemistry For Practitioners	Li	9781119607281	9	Cloth	174.95	
Modeling in Membranes and Membrane-Based Processes: Industrial Scale Separations	Roy, Moulik, Kamesh, Mullick	9781119536062	1	Cloth	224.95	
Molecular Simulations: Fundamentals and Practice	Alavi	9783527341054	4	Paper	120.00	
Molecular-Scale Electronics: Concept, Fabrication and Applications	Guo, Dong, Li	9783527345489	4	Cloth	164.97	

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
Multi-Component Reactions in Molecular Diversity	Goddard, Malacria, Ollivier	9781786305114	2	Cloth	119.95	
Organic Chemistry as A Second Language, First Semester Topics, 5th Edition Asia Edition	Klein	9781119668039	7	Paper	75.95	
Organic Reaction Mechanisms 2017: An Annual Survey Covering the Literature Dated January to December 2017	Knipe, Moloney	9781119426196	8	Cloth	565.00	
Organic Reactions Volume 101	Evans	9781119644774	8	Cloth	349.95	
Organic Reactions Volume 102	Evans	9781119651222	8	Cloth	349.95	
Organic Reactions Volume 103	Evans	9781119651253	8	Cloth	349.95	
Organic Structures from Spectra, 6th Edition	Field, Li, Magill	9781119524809	2	Paper	65.00	
Organic Syntheses, Volume 96	Wood	9781119707769	9	Cloth	194.95	
Photoionization and Photo-Induced Processes in Mass Spectrometry: Fundamentals and Applications	Zimmermann, Hanley	9783527335107	2	Cloth	205.00	
Principles of Inorganic Materials Design, 3rd Edition	Lalena, Cleary, Duparc	9781119486831	13	Cloth	TBA	
Protein Chromatography: Process Development and Scale-Up, 2nd Edition	Carta, Jungbauer	9783527346660	6	Cloth	165.00	
Quantum Chemistry and Dynamics Of Excited States: Methods and Applications	González, Lindh	9781119417750	10	Cloth	285.00	
Rechargeable Batteries: History, Progress and Applications	Boddula, Inamuddin, Pothu, Asiri	9781119661191	5	Cloth	224.95	
SQUID Readout Electronics and Magnetometric Systems for Practical Applications	Xie, Dong, Zhang, Zhang, Krause	9783527344888	12	Cloth	102.15	
Surfactant Science and Technology, 4th Edition	Myers	9781119465850	10	Cloth	194.95	
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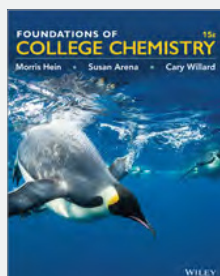
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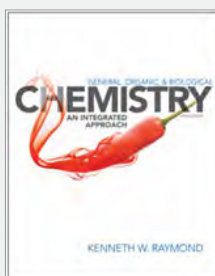
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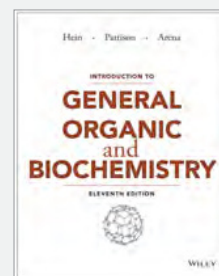
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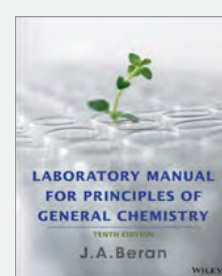
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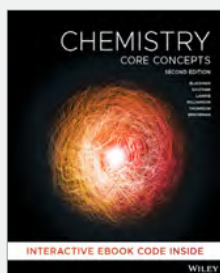
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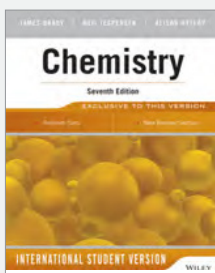
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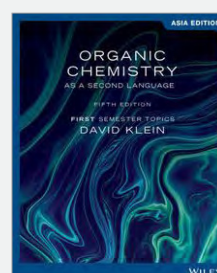
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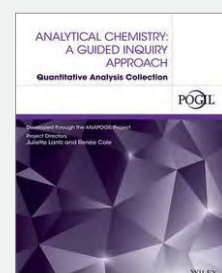
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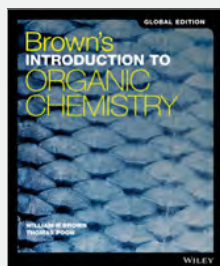
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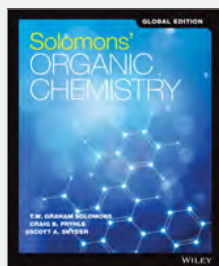
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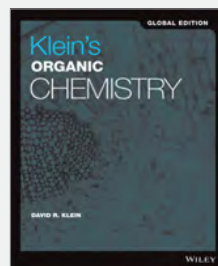
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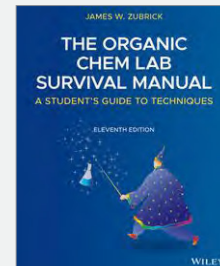
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