



Chemistry & Material Science

September to December 2021

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Lead Title



Adoptable Textbook

All information are correct at press time but are subject to change without prior notice.

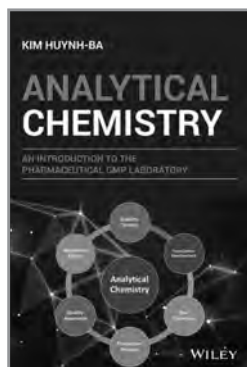
Analytical Chemistry

An Introduction to the Pharmaceutical GMP Laboratory

Kim Huynh-Ba

This book provides a critical understanding of regulations, practices, compendial, quality programs to control and monitor quality of medicines in pharmaceutical industry. It emphasizes practical applications and best practices of different quality systems and what is involved in pharmaceutical industry.

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Automated Sample Preparation

Methods for GC-MS and LC-MS

Hans-Joachim Hubschmann

Provides the tools and background for implementation of instrumental sample preparation workflow concepts for GC-MS and LC-MS analyses in the laboratory. The analytical advantages of its implementation and operational aspects during sample handling are discussed.

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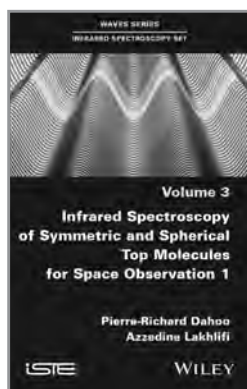


Infrared Spectroscopy of Symmetric and Spherical Spindles for Space Observation 1

Pierre-Richard Dahoo & Azzedine Lakhilfi

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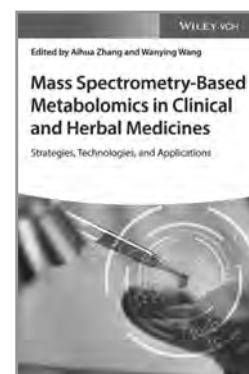
Mass Spectrometry-Based Metabolomics in Clinical and Herbal Medicines

Strategies, Technologies and Applications

Aihua Zhang & Wanying Wang

This book highlights the importance and benefit of mass spectrometry-based metabolomics for identifying biomarkers that accurately screen for potential biomarkers of diseases. It is a guide for new practitioners of pharmacologists, drug developers, botanists, and researchers of traditional medicines.

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Plasmonic Sensors and their Applications

Adil Denizli

Plasmons occur at the interface between any two materials, and plasmonic sensors enable the real-time study of changes in the surface properties of these materials. This resource examines the development and use of highly sensitive and selective plasmonic sensing platforms in the fields of chemistry, biotechnology, and medicine.

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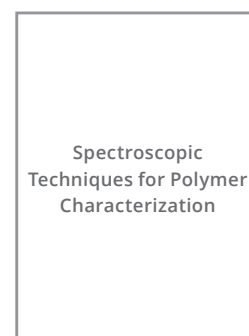
Spectroscopic Techniques for Polymer Characterization

Methods, Instrumentation, Applications

Yukihiro Ozaki & Harumi Sato

An essential book for both researchers and industry professionals analyzing and developing polymeric materials, edited by two famous and award-winning experts in the field of polymer spectroscopy. Yukihiro Ozaki is Professor Emeritus of Kwansei Gakuin University, and Harumi Sato is a full professor of Kobe University.

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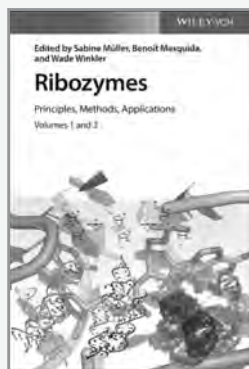
Ribozymes

Principles, Methods, Applications, 2-Volume Set

Sabine Muller, Benoit Masquida & Wade Winkler

This all-encompassing and authoritative reference on ribozymes documents the great diversity of nucleic acid-based catalysis. It integrates the knowledge gained over the past 35 years in the field and features contributions from virtually every leading expert on the subject.

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**Anion-Binding Catalysis***Olga Garcia-Mancheno*

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Anion-Binding Catalysis

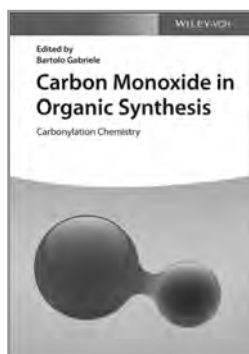
Carbon Monoxide in Organic Synthesis

Carbonylation Chemistry

Bartolo Gabriele

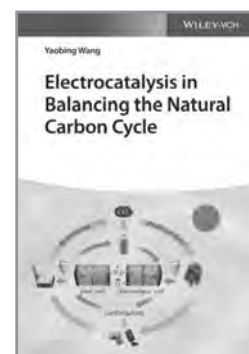
Aimed at researchers in academia and industry, the book gives an up-to-date overview of carbonylation reactions in the presence of carbon monoxide using various transition metal catalysts as well as highlighting metal-free processes.

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Semiconductor Solar Photocatalysts

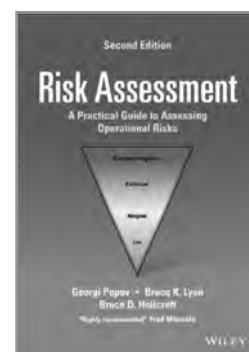
Risk Assessment, 2nd Edition

A Practical Guide to Assessing Operational Risks

Georgi Popov, Bruce K. Lyon & Bruce Hollcroft

This book presents the fundamentals of risk assessment, featuring the latest standards, methodologies, and practical approaches to risk identification, analysis, and evaluation. Written as a reference for safety, health and environmental professionals and as a textbook for advanced students.

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Accelerating Research with Machine Learning

Edward O. Pyzer-Knapp & Matthew Benatan



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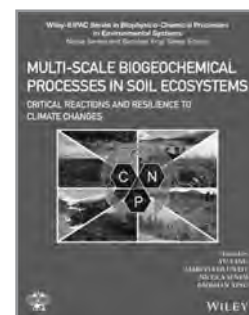
**Multi-Scale Biogeochemical Processes in Soil Ecosystems**

Critical Reactions and Resilience to Climate Changes

Yu Yang, Marco Keiluweit, Nicola Senesi & Baoshan Xing

An overview of the most up-to-date research about soil biogeochemical processes ranging from the molecular-scale phenomena to global-scale modeling, as well as applications in ecosystem management to mitigate greenhouse gas emission and the harmful effects of climate change.

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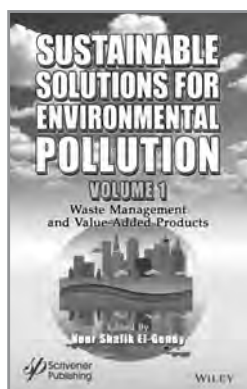
**Sustainable Solutions for Environmental Pollution**

Waste Management and Value-Added Products, Volume 1

Nour Shafik El-Gendy

This first of two volumes, *Sustainable Solutions for Environmental Pollution, Volume 1*, concentrates on the role of waste management in solving pollution problems and the value-added products that can be created out of waste, turning a negative into an environmental and economic positive.

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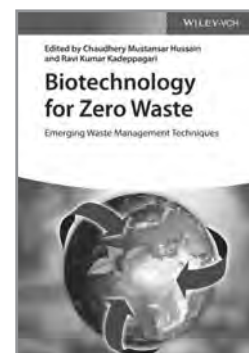
**Biotechnology for Zero Waste**

Emerging Waste Management Techniques

Chaudhery Mustansar Hussain & Ravi Kumar Kadeppagari

This book articulates the role of biotechnology in reducing waste and maximizing resource valorization. It explains perspectives in waste management like anaerobic co-digestion, integrated biosystems, microbial fuel cell technology, and others, to cater to sustainability demands of industry and agriculture.

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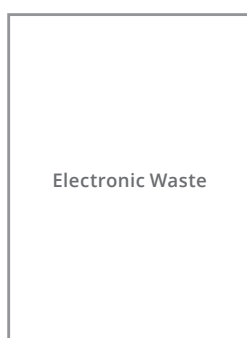
**Electronic Waste**

Recycling and Reprocessing for a Sustainable Future

Maria E Holuszko & Amit Kumar

This book covers technological aspects related to the recycling and reprocessing of electronic waste. It also presents an overview of data collection, statistical analysis, socio-economic issues as well as regulations across the globe.

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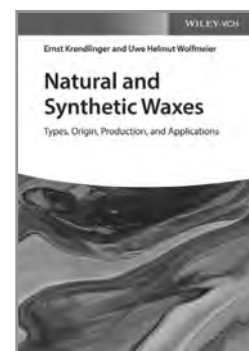
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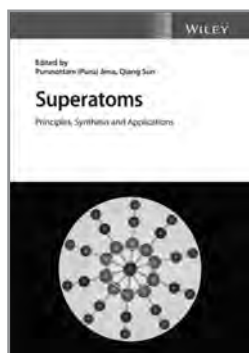
Superatoms

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Purusottam (Puru) Jena & Qiang Sun

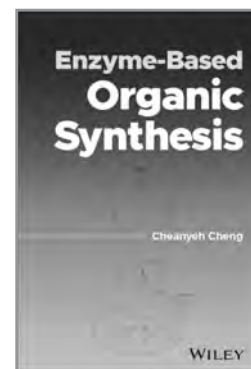
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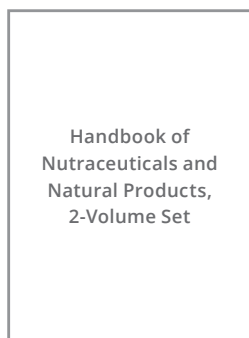
This book discusses the principles, methods, uses of enzymatic and microbial processes for organic synthesis, and growth area of green methods for synthetic organic chemistry in both academic research and industrial practice. Cheanyeh Cheng is Professor of Chemistry at Chung Yuan Christian University, Taiwan.

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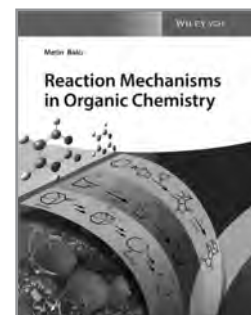
The 107th volume in this series for organic chemists in academia and industry presents critical discussions of widely used organic reactions or particular phases of a reaction. The material is treated from a preparative viewpoint, with emphasis on limitations, interfering influences, effects of structure and the selection of experimental techniques.

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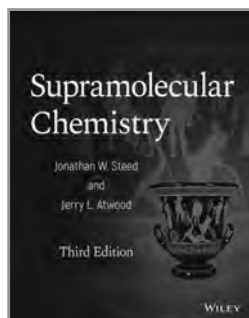
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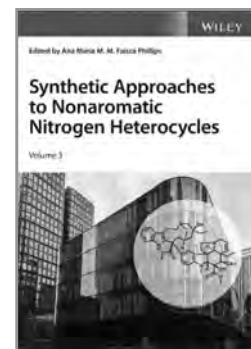
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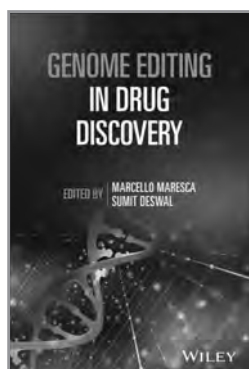
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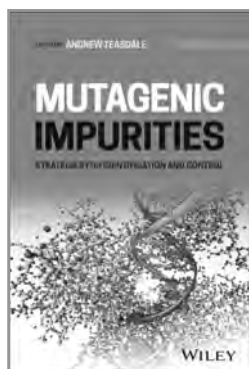
Mutagenic Impurities

Strategies for Identification and Control

Andrew Teasdale

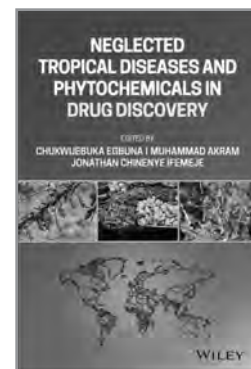
Combining basic science and practical approaches in a way that can help standardize global handling of mutagenic impurities, distinguished chemist Andrew Teasdale delivers a timely update following the adoption of ICH M7 guideline, with a focus on mutagenic impurities and their impact on the pharmaceutical industry.

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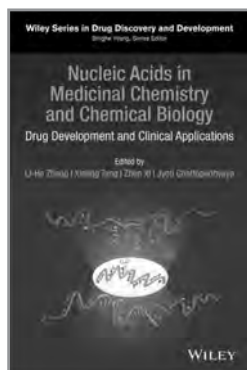
Nucleic Acids in Medicinal Chemistry and Chemical Biology

Drug Development and Clinical Applications

Li-He Zhang, Xinjing Tang, Zhen Xi & Jyoti Chattopadhyaya

With coverage featuring technologies like CRISPR and nanotechnology-based delivery systems for nucleic acid therapeutics, *Nucleic Acids in Medicinal Chemistry and Chemical Biology* provides valuable information on new research that could impact the way diseases are treated.

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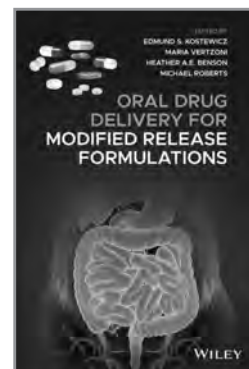


Oral Drug Delivery for Modified Release Formulations

Edmund S. Kostewicz, Maria Vertzoni, Heather A. E. Benson & Michael S. Roberts

A comprehensive guide on oral absorption from MR dosage forms that provides readers with an understanding of physiology, physicochemical determinants, role of dosage formulations, and in-vitro in-vivo correlation (IVIVC).

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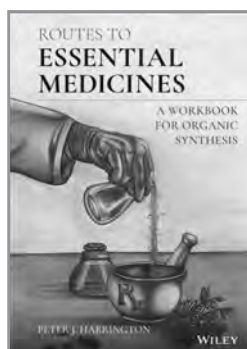
A Workbook for Organic Synthesis

Peter J. Harrington



This comprehensive workbook helps readers become familiar with the structures and synthetic challenges associated with nearly 300 essential medicines on the World Health Organization (WHO) Model List of Essential Medicines, and gain the skills needed for pharmaceutical development.

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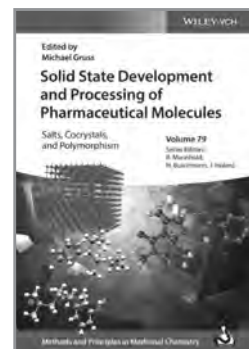
Solid State Development and Processing of Pharmaceutical Molecules

Salts, Cocrystals, and Polymorphism

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An authoritative guide that covers the entire pharmaceutical value chain. The authors examine the importance of the solid state form of chemical and biological drugs and review the development, production, quality control, formulation, and stability of medicines.

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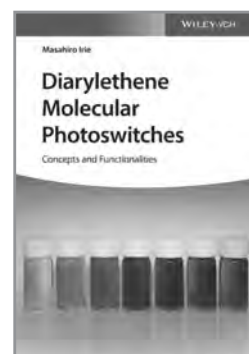
Diarylethene Molecular Photoswitches

Concepts and Functionalities

Masahiro Irie

The first comprehensive book describing the synthesis, properties, and applications of diarylethene-based molecular photoswitches—written by the inventor of photochromic diarylethene compound! Masahiro Irie is Emeritus Professor of Kyushu University, Japan, and winner of multiple scientific awards.

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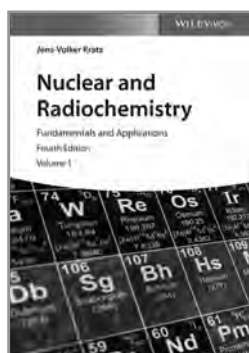
Nuclear and Radiochemistry

Fundamentals and Applications, 2-Volume Set, 4th Edition

Jens-Volker Kratz

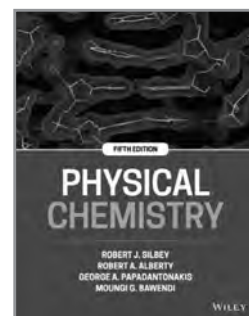
Now in its fourth edition, this handbook covers the field of nuclear and radiochemistry in a well-structured and didactically accessible manner. The first volume covers theory and fundamentals, while the second volume is devoted to the technical side of nuclear chemistry.

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**Physical Chemistry, 5th Edition**
*Robert J. Silbey, Robert A. Alberty,
George A. Papadantonakis & Moungi G. Bawendi*

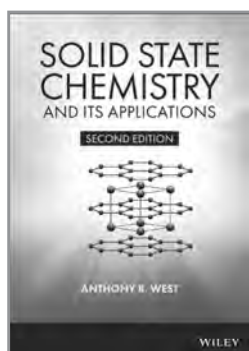
Ever since Physical Chemistry was first published in 1913, it has remained a highly effective and relevant learning tool thanks to the efforts of physical chemists from all over the world. Each new edition has benefited from their suggestions and expert advice.

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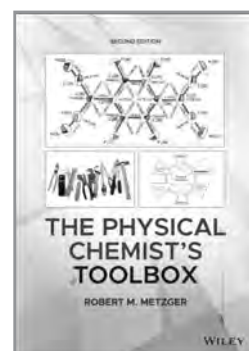
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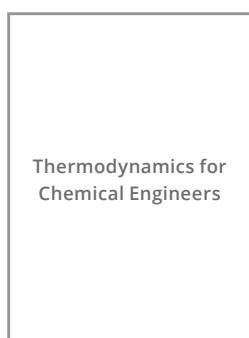
Assembling a great deal of material in one place, this book serves as a valuable guide for chemists and related physical scientists throughout their careers – covering essential equations, theories, and tools needed for conducting and interpreting contemporary research.

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**Thermodynamics for Chemical Engineers**
*Kenneth Richard Hall & Gustavo Arturo
Iglesias-Silva*

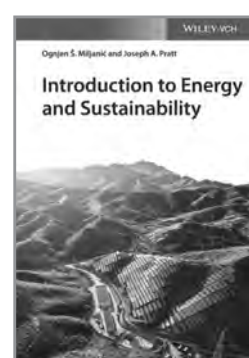
This text is suitable for undergraduate and graduate students in chemical and petroleum engineering, as well as other courses that require basic thermodynamics. It introduces the basic concepts in a thorough and conscience manner while providing practice-oriented examples and illustrations.

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**Introduction to Energy and Sustainability***Ognjen Miljanic & Joseph Pratt*

Introduction to Energy and Sustainability examines the history, present reality, and the likely future of our energy use from a combined social and natural science perspective. It is an ideal text for post-graduate level students of energy fields, and reference for environmentalists, engineers, power engineers, and chemists.

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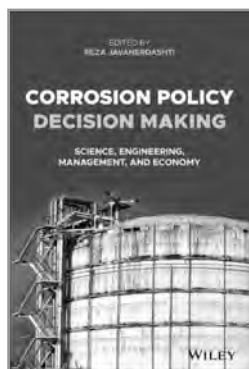
Corrosion Policy Decision Making

Science, Engineering, Management, and Economy

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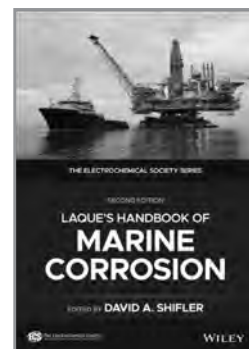
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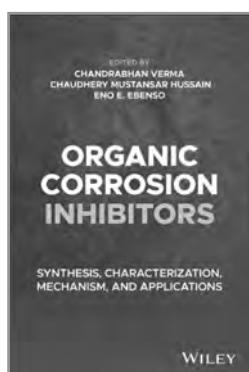
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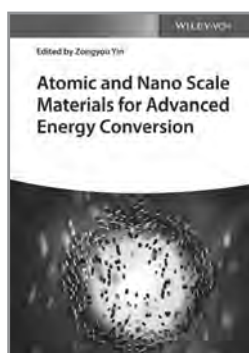
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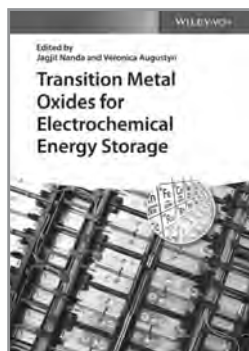


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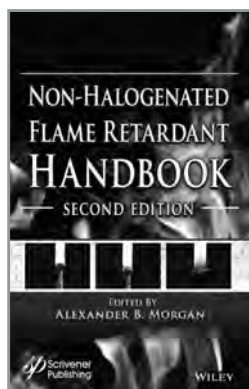


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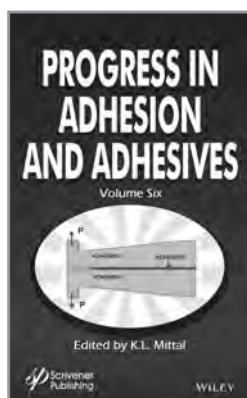
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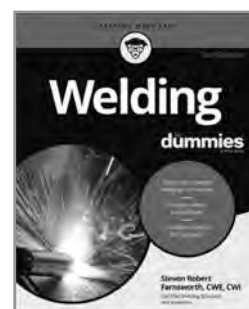
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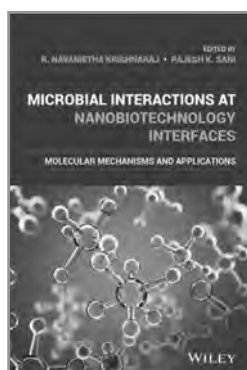
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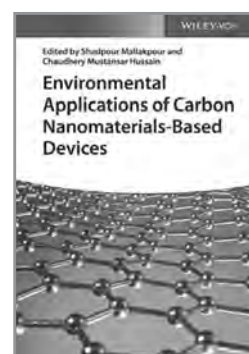
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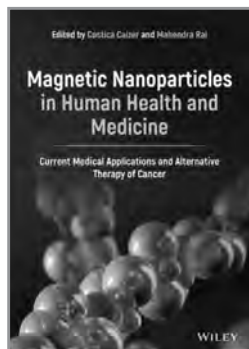


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