



Chemistry, Material, Life & Earth Sciences

May to August 2025

Table of Contents

Chemistry

Analytical Chemistry	1
Biochemistry (Chemical Biology)	1
Catalysis	1
Chemical and Environmental Health and Safety	2
Computational Chemistry & Molecular Modeling	2
Electrochemistry	2
Environmental Chemistry	2
General & Introductory Chemistry	2
Industrial Chemistry	2
Inorganic Chemistry	3
Organic Chemistry	3
Pharmaceutical & Medicinal Chemistry	4
Sustainable Chemistry & Green Chemistry	6

Agriculture

Agricultural Economics & Resource Management	6
Crops	6
Pests, Diseases & Weeds	6

Earth Science

Geology & Geophysics	6
Hydrological Sciences	7

Environmental Studies

Environmental Economics & Politics	7
Environmental Science	7

Life Sciences

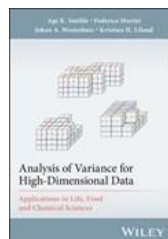
Ecology & Organismal Biology	8
Entomology	8
Genetics	8
Microbiology & Virology	8
Plant Science	9

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Bioanalytical Techniques: Principles and Applications

Inamuddin, Tariq Altalhi, Naif Ahmed Alshehri, Jorddy Neves Cruz

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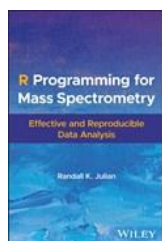
Analysis of Variance for High-Dimensional Data: Applications in Life, Food and Chemical Sciences

Age K. Smilde, Federico Marini, Johan A. Westerhuis, Kristian Hovde Liland

Overview of methods for analyzing high-dimensional experimental data, including theory, methodologies, and applications

Analysis of Variance for High-Dimensional Data summarizes all the methods to analyze high-dimensional data that are obtained through applying an experimental design in the life, food and chemical sciences, especially those developed in recent years.

Written by international experts who lead development in



R Programming for Mass Spectrometry: Effective and Reproducible Data Analysis

Randall K. Julian

A practical guide to reproducible and high impact mass spectrometry data analysis

R Programming for Mass Spectrometry teaches a rigorous and detailed approach to analyzing mass spectrometry data using the R programming language. It emphasizes reproducible research practices and transparent data workflows and is designed for analytical chemists, biostatisticians, and data scientists working with mass spectrometry.

Readers will find specific algorithms and reproducible examples that address common challenges in mass

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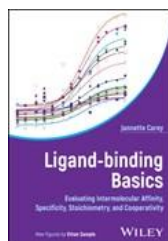
Streamlining Your Research Laboratory with Python

Mark F. Russo, William Neil

Enables scientists and researchers to efficiently use one of the most popular programming languages in their day-to-day work

Streamlining Your Research Laboratory with Python covers the Python programming language and its ecosystem of tools applied to tasks encountered by laboratory scientists and technicians working in the life sciences. After opening with the basics of Python, the chapters move through working with and analyzing data, generating reports, and automating the lab environment.

The book includes example processes within chapters and



Ligand-Binding Basics: Evaluating Intermolecular Affinity, Specificity, Stoichiometry, and Cooperativity

Jannette Carey

A concise and accessible textbook covering ligand-binding theory in chemistry, biology, and drug development

In *Ligand-binding Basics: Evaluating Intermolecular Affinity, Specificity, Stoichiometry, and Cooperativity*, accomplished chemist Jannette Carey introduces ligand binding in a thorough and practical way for those new to the topic, as well as anyone seeking a connection between theory and experiment. Using a minimum of mathematical formalism, this book offers analytical rigor

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Green Nanostructured Photocatalysts: Design, Performance and Applications

Ajay Kumar Mishra, Chaudhery Mustansar Hussain, Chaudhery Ghazanfar Hussain

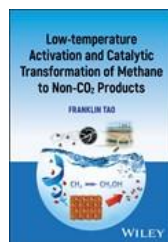
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Low-temperature Activation and Catalytic Transformation of Methane to Non-CO2 Products

Franklin Tao

Sustainably tap one of the world's most abundant natural resources with this essential guide

Methane is among our crucial natural resources, with myriad applications both domestic and industrial. Atmospheric accumulation of methane, however, is one of the major drivers of climate change. The increasingly urgent search for a sustainable world demands methods for the transformation of methane that maximize its potential as a source of energy and chemical production without a harmful effect on the atmosphere and local

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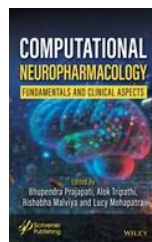
Decoding Disasters: An Engineering Approach to Understanding Technical Failures and Natural Catastrophes

Anthony Sofronas

Understanding failures and disasters using case studies and simple engineering techniques

Decoding Disasters provides illustrated failure case histories on a multitude of technologies and shows how engineering analysis can explain and help professionals understand them. For each case, the analysis technique is included so that the reader can adapt and apply it to their own situation. Different techniques are developed to show how the methods can be applied in various disciplines. This book guides readers to determine what likely occurred in

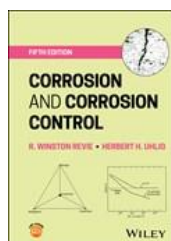
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Computational Neuropharmacology: Advances and Prospectives

Bhupendra Prajapati, Alok Tripathi, Rishabha Malviya, Lucy Mohapatra



Corrosion and Corrosion Control (5th Edition)

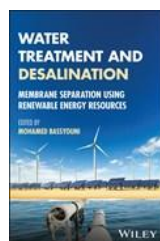
R. Winston Revie

The newest edition of the gold standard in corrosion reference resources

In the newly revised fifth edition of *Corrosion and Corrosion Control*, distinguished scientist and program manager R. Winston Revie delivers a uniquely up-to-date resource reflecting the current knowledge of corrosion science and engineering. This book offers updated explanations of the essential aspects of corrosion science and engineering that underpin the tools and technologies used for managing and controlling corrosion.

Relying heavily on a quantitative approach—along with basic equations that are explained and deriv

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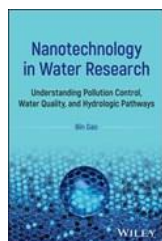
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Water Treatment and Desalination: Membrane Separation using Renewable Energy Resources

Mohamed Bassyouni

Discover how membrane-based water treatment and desalination systems powered by renewable energy can maximize efficiency and address water scarcity

Water Treatment and Desalination provides a comprehensive understanding of the entire water treatment and desalination process, from membrane materials to system optimization and practical applications. This book shows how integrating renewable energy such as solar, wind, wave, geothermal, and bioenergy



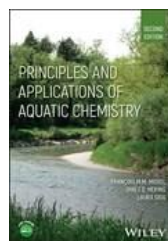
Nanotechnology in Water Research: Understanding Pollution Control, Water Quality, and Hydrologic Pathways

Bin Gao

Holistic perspective on environmental nanotechnology and its impact on water quality, focusing pollution control, water quality, and hydrologic pathways

Nanotechnology in Water Research delves into the intersection of nanotechnology and environmental science, exploring the transformative potential of nanotechnology in addressing environmental challenges. The book discusses the characterization, stability, transport, and fate of nanomaterials in water systems, particularly in

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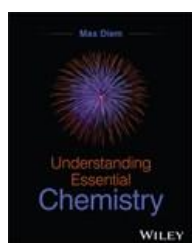
Principles and Applications of Aquatic Chemistry (2nd Edition)

François M. M. Morel, Janet G. Hering, Laura Sigg

The definitive text for water chemistry professionals and students worldwide.

Principles and Applications of Aquatic Chemistry provides a solid foundation for understanding the chemistry of lakes, oceans, rivers, estuaries, and other natural waters. Acclaimed for its user-friendly pedagogy, this classic textbook explains aquatic chemistry through the powerful application of the "tableau system," which provides a systematic way to organize complex chemical equilibrium problems.

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Understanding Essential Chemistry

Max Diem

Enables students to understand, apply, and retain key concepts in general chemistry

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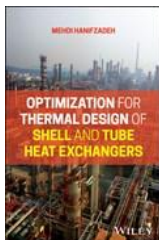
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Herbicide Metabolism and Weed Resistance

Vijay K. Nandula, Roland Beffa

Features new insights into metabolic herbicide resistance

Metabolic resistance to herbicides poses a significant challenge to sustainable agriculture, with global implications for weed control and crop productivity. *Herbicide Metabolism and Weed Resistance* provides an in-depth exploration of the mechanisms driving this resistance in both grass and dicot weed species. Edited by leading experts Vijay K. Nandula and Roland Beffa, this up-to-date volume delves into the evolution of herbicide metabolism, focusing on enhanced metabolic degradation and its impact on multiple herbicide mechanisms of a...



Optimization for Thermal Design of Shell and Tube Heat Exchangers

Mehdi Hanifzadeh

A comprehensive guide to ensuring efficient, accurate, and cost-effective design of shell and tube heat exchangers across a variety of industries

Effective thermal design of shell and tube heat exchangers is essential for maintaining performance and reducing costs in industries such as oil, gas, petrochemicals, and energy. In a field where heat exchangers are a significant investment, understanding how to design them efficiently is vital.

Optimization for Thermal Design of Shell and Tube Heat Exchangers presents a clear practical approach to

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Dyeing of Cellulose Fibers

Riza Atav

Green Metal–Organic Frameworks: Synthesis, Characterization, and Applications

Chandrabhan Verma, Ibrahim Yahia Yaagoob, Tahir Rasheed

This book covers Green Metal–Organic Frameworks (GMOF) synthesis, characterisation, characteristics, and applications. It consists of toxicity evaluations of their solubility control and degradation. The main strategies and developments for the environmentally friendly synthesis of MOFs, including solvent-free synthesis, syntheses employing green solvents (water, ionic liquids, supercritical CO₂, PEG), and microwave and ultrasound heating, are addressed. The synthesis of GMOFs is also discussed using Green Linkers and less harmful metals (Zn & Fe) as well as

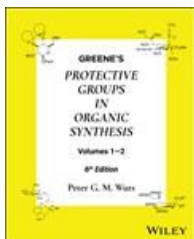
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Advances in Metal–Organic Frameworks

Lida Hashemi, Mohammad Yaser Masoomi



Greene's Protective Groups in Organic Synthesis, 2 Volume Set (6th Edition)

Peter G. M. Wuts

Integral, reliable, and comprehensive guidance for chemists performing the complex syntheses required for the formation and cleavage of protective groups

Organic synthesis is the preparation and creation of organic compounds for use in natural products, pharmaceuticals, and other molecules. The synthesis of molecules having multiple functional groups often requires the use of 'protective groups' to achieve site selectivity in a chemical reaction within a molecule bearing multiple sites of reactivity. Protective groups are installed temporarily to

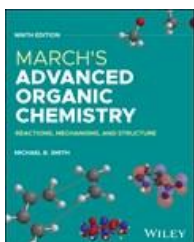
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Stereochemistry: Principles, Applications, Modeling

Vivek P. Chavda, Divya Teli, Mahesh Chhabria, Mange Ram Yadav



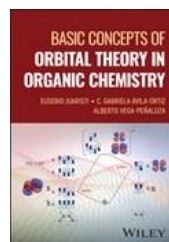
March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure (9th Edition)

Michael B. Smith

Leading reference on the theories of organic chemistry, now updated to reflect the most recent literature from 2018 to 2023

Building on the success of the 8th Edition as winner of the Textbook & Academic Authors Association 2021 McGuffey Longevity Award, the revised and updated 9th Edition of *March's Advanced Organic Chemistry* explains the theories of organic chemistry, covers new advances in areas of organic chemistry published between 2018 and 2023, and guides readers to plan and execute multi-step synthetic

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Basic Concepts of Orbital Theory in Organic Chemistry

Eusebio Juaristi, C. Gabriela Avila-Ortiz, Alberto Vega-Penalzo

Increase your understanding of molecular properties and reactions with this accessible textbook

The study of organic chemistry hinges on an understanding and capacity to predict molecular properties and reactions. Molecular Orbital Theory is a model grounded in quantum mechanics deployed by chemists to describe electron organization within a chemical structure. It unlocks some of the most prevalent reactions in organic chemistry.

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Medical Toxicology: Occupational and Environmental Exposures, Multi-Volume

Donald G. Barceloux, Robert B. Palmer

In-depth, evidence-based resource covering important toxins affecting human health and safety

Medical Toxicology of Occupational and Environmental Exposures presents crucial information on various important toxins that affect human health and safety, focusing on their chemical structures, analytical methods, clinical features, and comprehensive treatment options. Organized across three volumes, it provides comprehensive and insightful information for clinicians, students, and investigators with interests in metals, radiation, and cancer. The interdisciplinary, evidence-based

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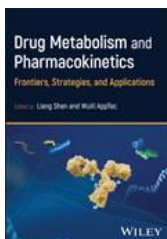
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Formulating Pharma-, Nutra-, and Cosmeceutical Products from Herbal Substances: Dosage Forms and Delivery Systems

Anupama Singh, Hitesh Kulhari, Vikas Anand Saharan

A practical and up-to-date discussion of the formulation and design of dosage forms and delivery systems containing herbal ingredients

In *Formulating Pharma-, Nutra-, and Cosmeceutical Products from Herbal Substances: Dosage Forms and Delivery Systems*, a team of distinguished researchers delivers a step-by-step approach to preparing and manufacturing dosage forms and delivery systems. Intuitively organized with comprehensive coverage of the fundamentals, functional materials, manufacturing, and



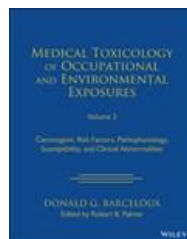
Drug Metabolism and Pharmacokinetics: Frontiers, Strategies, and Applications

Liang Shen

Practical, state-of-the-art pharmacokinetic research methods, ideas, advancements, applications, and strategies

Drawing on a wealth of extensive practical experience and theoretical research, *Drug Metabolism and Pharmacokinetics* encapsulates the most recent advancements and illustrative applications in the field. Sixty-eight relatively independent yet interconnected articles are included, each offering a unique perspective and providing in-depth interpretation. Readers can either read systematically or select specific topics of interest from

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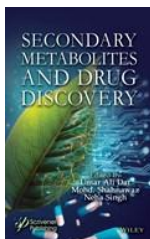


Medical Toxicology of Occupational and Environmental Exposures to Carcinogens: Risk Factors, Pathophysiology, Susceptibility, and Clinical Abnormalities, Volume 3

Donald G. Barceloux, Robert B. Palmer

Medical Toxicology of Occupational and Environmental Exposures is the only reference which comprehensively covers the clinical, analytical, and monitoring information needed by clinicians, students and investigators with interests in metals, radiation, and cancer. The information in all chapters is presented in a cogent, standardized format which greatly simplifies the use of the text as a reference. Reviewed by a distinguished panel of well-known toxicology experts, the information is critically

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Pharmaceutical Nanocrystals: Synthesis and Drug Delivery Applications

Inderbir Singh Bakshi, Loveleen Kaur, Paranjeet Kaur, Deepika Raina

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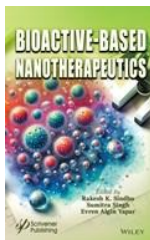
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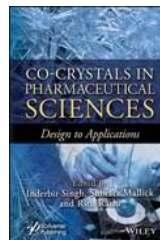
Bioactive-Based Nanotherapeutics

Rakesh K. Sindhu, Evren Algin Yapar, Sumitra Singh

Bioactive-Based Nanotherapeutics explores the rapidly growing field of therapeutics. The book delves into bioactive nanotherapeutics and its enormous potential for revolutionizing disease treatment and management. In addition, the book presents a broad overview of the fundamentals of bioactive nanomaterials, their design strategies, and their therapeutic applications. Readers explore beneficial topics on the applications of bioactive nanotherapeutics for the treatment of various diseases, including cancer, GII, infectious diseases, and neurodegenerative disorders.

Characterizing biotherapeutics

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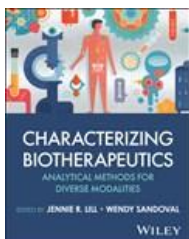


Co-Crystals in Pharmaceutical Sciences: From Design to Applications

Inderbir Singh Bakshi, Ritu Ritu Rath, Subrata Mallick, Shilpi Hamal

Co-Crystals in Pharmaceutical Sciences: Design in Applications is a comprehensive overview of the field of pharmaceutical co-crystals. It addresses fundamental principles, practical considerations, and the regulatory landscape. The book begins by introducing the concept's broad scope and potential impact on drug development. The book then delves into design principles and molecular interactions, emphasizing the structural characteristics that influence cocrystals. Unique chapters explore herbal and drug-drug cocrystals, detailing experimental techniques, validation, and process optimization.

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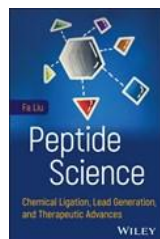
Characterizing Biotherapeutics: Analytical Methods for Diverse Modalities

Jennie R. Lill, Wendy Sandoval

Provides detailed and up-to-date coverage of analytical approaches for biologic drug modalities

The development of innovative biologic therapies has revolutionized medicine, but their complexity demands equally advanced analytical approaches. *Characterizing Biotherapeutics: Analytical Methods for Diverse Modalities* introduces the tools and techniques used to analyze these groundbreaking therapies. Designed to help readers characterize and troubleshoot increasingly diverse and sophisticated therapeutic molecules, this in-depth guide addresses different biologic drugs, their unique analytical

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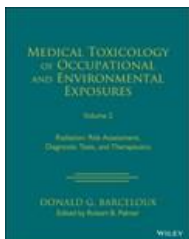
Peptide Science: Chemical Ligation, Lead Generation, and Therapeutic Advances

Fa Liu

Understand the nature and applications of peptides with this clear and comprehensive guide

Peptides are signaling molecules comprised of amino acids which play an important role in modulating certain physiological processes. They have a wide range of applications, particularly with respect to biological studies and therapeutic potentials. The explosive growth of peptide science in recent years and the variety of achievements in peptide drug discovery and related areas have made it an important area of study for new researchers and industry professionals.

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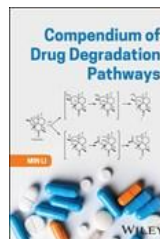


Medical Toxicology of Occupational and Environmental Exposures to Radiation, Volume 2: Risk Assessment, Diagnostic Tests, and Therapeutics

Donald G. Barceloux, Robert B. Palmer

Medical Toxicology of Occupational and Environmental Exposures is the only reference which comprehensively covers the clinical, analytical, and monitoring information needed by clinicians, students and investigators with interests in metals, radiation, and cancer. The information in all chapters is presented in a cogent, standardized format which greatly simplifies the use of the text as a reference. Reviewed by a distinguished panel of well-known toxicology experts, the information is critically

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Compendium of Drug Degradation

Min Li

This book is focused on the principles and mechanisms of main drug degradation chemistry which are illustrated by representative examples reported in the literature. It will feature a collection of monographs for the degradation chemistry of ~350 small molecule drugs. The ~350 drugs are selected from a few sources such as the top 200 drug lists for the past few years, top selling prescription and OTC drug lists, WHO essential drug list and China's Basic Drug list. Each monograph is a concise summary of a drug's degradation chemistry and pathways reported in the literature with the authors crit...

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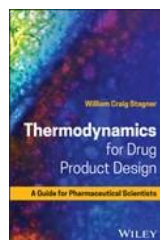
Putting Pharmacokinetics and Pharmacodynamics to Work in Drug Discovery: A Practical Guide for Pharmaceutical Scientists

Emile P. Chen

Develop drugs with a greater understanding of their bodily impact

Pharmaceutical scientists in the fields of pharmacokinetics and pharmacodynamics study how drugs behave in the body and how they reach their site of action to exert their intended pharmacological activities. Drug discovery stands to benefit enormously from the timely application of pharmacokinetics and pharmacodynamics in order to make informed decisions and solve practical problems.

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Thermodynamics for Drug Product Design: A Guide for Pharmaceutical Scientists

William Craig Stagner

Comprehensive reference reviewing how thermodynamic principles underpin the design of drug products and their applications

Written in an easy-to-read and understand style, *Drug Product Design Thermodynamics* offers an abundance of real-life drug product design examples, applications, personal anecdotes, and solved problems that contextualize thermodynamic principles for the drug product design scientist. Advanced undergraduate and beginning graduate students will learn to apply thermodynamic principles to create robust drug products

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M. R. Islam, A. B. Chhetri, M. M. Khan

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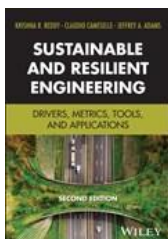
Green and Sustainable Chemistry and Engineering: A Practical Design Approach (2nd Edition)

Concepcion Jimenez Gonzales, David J. C. Constable

The first textbook to fully integrate Green and Sustainable Chemistry and Engineering, now in its second edition

Green and Sustainable Chemistry and Engineering addresses key concepts and processes from an industrial and manufacturing perspective. Using an integrated, systems-oriented approach, this invaluable single-volume resource bridges the divide between chemistry, process design, and engineering, as well as environment, health, safety, and life cycle considerations.

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Science / Chemistry



Sustainable and Resilient Engineering: Drivers, Metrics, Tools, and Applications (2nd Edition)

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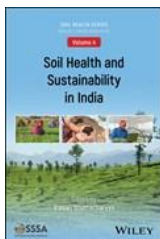
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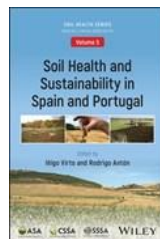
Soil Health and Sustainability in India

Ranjan Bhattacharyya, Douglas L. Karlen

In-depth resource exploring soil health issues in Indian regions such as the Indian Himalayas and Indo-Gangetic Plains

Soil Health and Sustainability in India delivers a comprehensive overview of the problems surrounding soil health in various regions of India, summarizing the main causes of soil degradation in different agro-climatic regions, documenting both soil degradation and soil health improvements in agricultural systems, looking at how to mitigate soil health hazards including waterlogging, acidity, soil salinity, and soil compaction in India, detailing soil health constraints in diff...

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Soil Health and Sustainability in Spain and Portugal: Case Studies and General Perspective

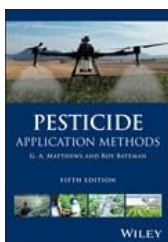
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An authoritative exploration of soil health management and land-use strategies in the Iberian Peninsula

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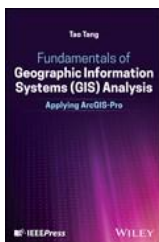
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Sam J. Purkis, Ved Chirayath

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Fundamentals of Geographic Information Systems (GIS) Analysis: Applying ArcGIS-Pro

Tao Tang

Unique and authoritative reference combining concepts, theories, and hands-on analysis in the ArcGIS Pro software environment

Fundamentals of Geographic Information Systems (GIS) Analysis bridges the gap between academic discussions and research with public and private professional practices in the field. The book discusses and illustrates essential concepts and theories, with tutorials showing students how to conduct hands-on analysis in the ArcGIS Pro software environment.

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Computation, Optimization, and Machine Learning in Seismology

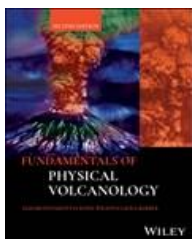
Subhashis Mallick

A textbook applying fundamental seismology theories to the latest computational tools

The goal of computational seismology is to digitally simulate seismic waves, create subsurface models, and match these models with observations to identify subsurface rock properties. With recent advances in computing technology, including machine learning, it is now possible to automate matching procedures and use waveform inversion or optimization to create large-scale models.

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Fundamentals of Physical Volcanology (2nd Edition)

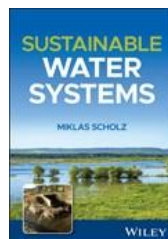
Elisabeth Parfitt, Lionel Wilson, Laura Kerber

The world's leading student text on physical volcanology offers an unmatched introduction to the field

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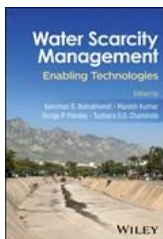
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Manish Kumar, Kanchan D. Bahukhandi, Durga P. Panday, Tushara G. Chaminda

Authoritative, forward-thinking resource presenting strategies and technologies to mitigate water scarcity and improve water quality

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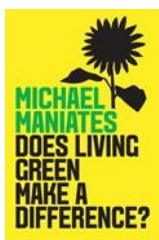
Mining: Why It's Essential for a Sustainable Future

Timothy Biggs

Mining has a poor public image. It is often associated with environmental degradation, human rights violations and the unacceptable excesses of capitalism. But might it also be the key to ensuring a more sustainable future?

Leading industry expert Timothy Biggs argues that modern life is simply unthinkable without mining on a huge scale. From the mobile phone in your pocket to the building you're standing in, the minerals and metals extracted by the mining industry make modern life possible. This fact will become more significant in the context of the environmental challenges we face. Tacklin...

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The Living-Green Myth

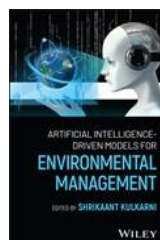
Michael Maniates

Major environmental problems threaten our planet and evoke within us a need to act – a need to do something, no matter how small, to slow the damage.

But what kind of action? Businesses, governments and some environmental groups tell us that buying environmentally friendly products while living more lightly on the planet is a winning strategy. Do the little things for the earth, the story goes, and others will follow, creating an environmental tsunami of change in norms, values and behaviors. The planet will thrive.

Michael Maniates tells us that to believe the myth of

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Artificial Intelligence-Driven Models for Environmental Management

Shrikaant Kulkarni

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Nanochitosan Applications for Enhanced Crop Production and Food Security

Charles Oluwaseun Adetunji, Maulin P. Shah, Yerima Mohammed Bello, Daniel Ingo Hefft, Jay Singh, Shyam S. Pandey, Ravindra Pratap Singh

This unique, important, and timely book provides detailed information about the application of nanochitosan to increase agricultural productivity to enhance food security and nutrition.

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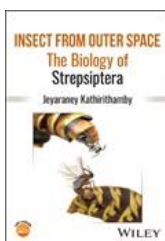
The Marine Microbial Food Web: Competition and Defence as Shaping Forces from Ecosystem to Genes

Tron Frede Thingstad

An authoritative and up-to-date exploration of how the competition-defence trade-off has shaped the marine microbial food web

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Insect from Outer Space: The Biology of Strepsiptera

Jeyarane Kathirithamby

Comprehensive account of Strepsiptera biology, including their taxonomy, morphology, fine structure, physiology, and behaviour, ranging from genes to phylogeny

Beautifully illustrated in full color throughout, with original up-to-date material from the author's research collection, *Insect from Outer Space: The Biology of Strepsiptera* is the first book to provide a comprehensive guide to the unique biology of an intriguing group of parasitoids that, until relatively recently, have remained something of a mystery in terms of both phenotype and genotype.

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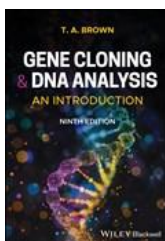
Genome and Epigenome Editing for Stress-Tolerant Crops

Jen-Tsung Chen

Provides a timely overview of the use of CRISPR and non-coding RNA technologies to develop climate-resilient crops

With mounting challenges from climate change, expanding populations, and resource limitations, the need for resilient and sustainable agricultural systems has never been greater. *Genome and Epigenome Editing for Stress-Tolerant Crops* summarizes advanced techniques for creating crops that can withstand both biotic and abiotic stressors. Edited by renowned biologist Jen-Tsung Chen, this authoritative volume discusses the coordination of

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Gene Cloning and DNA Analysis: An Introduction (9th Edition)

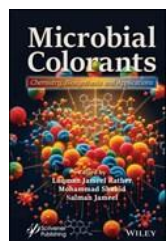
T. A. Brown

New edition of a world-renowned introductory text to the rapidly-growing and dynamic field of Gene Cloning and DNA Analysis

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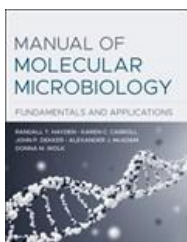


Microbial Colorants: Sources, Chemistry, Production, and Applications

Luqman Jameel Rather, Mohammad Shahid

The objective of *Microbial Colorants: Chemistry, Biosynthesis, and Applications* is to provide a thorough exploration of microbial pigments from a multidisciplinary perspective. This book investigates microbial pigments, covering their sources, chemical properties, biosynthesis, and a wide range of applications. The primary aim of this book is to address the growing need for environmentally friendly coloration methods while also offering valuable insights into the broader scientific and industrial implications of microbial pigments. This book will also highlight the environment and sustainability...

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Manual of Molecular Microbiology: Fundamentals and Applications

Randall T. Hayden, Karen C. Carroll, John P. Dekker, Alexander J. McAdam, Donna M. Wolk

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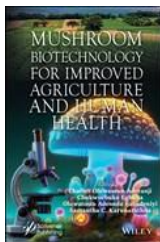
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Emerging Infectious Diseases: Unravelling Norovirus and Pandemic Dynamics

Sachin Kumar, Shriyansh Srivastava, Rishabha Malviya, Ranjit Sah

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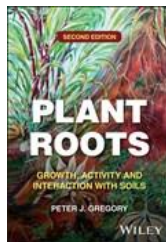
Mushroom Biotechnology for Improved Agriculture and Human Health

Charles Oluwaseun Adetunji, Chukwuebuka Egbuna,
Oluwatosin Ademola Ijabadeniyi, Samantha C.
Karunarathna

The book is essential for those seeking to understand innovative and sustainable solutions to global food insecurity and health challenges, as it offers invaluable insights into the transformative potential of mushroom biotechnology and its applications.

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Peter J. Gregory

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