



Chemistry, Material Science

Life & Earth Sciences

September to December 2024

Table of Contents

Chemistry

Analytical Chemistry	1
Biochemistry (Chemical Biology)	1
Catalysis	1
Chemical and Environmental Health and Safety	1
Electrochemistry	1
Industrial Chemistry	2
Inorganic Chemistry	2
Organic Chemistry	2
Pharmaceutical & Medicinal Chemistry	3
Physical Chemistry	3

Agriculture

Agricultural Economics & Resource Management	4
Agricultural Engineering	4
Crops	4
General & Introductory Agriculture	4

Earth Science

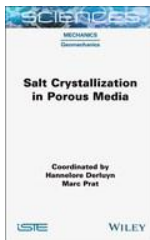
Atmospheric Sciences	4
Geology & Geophysics	4
Hydrological Sciences	5

Environmental Studies

Environmental Economics & Politics	6
Environmental Science	6
Environmental Studies Special Topics	6

Life Sciences

Animal Science & Zoology	6
Ecology & Organismal Biology	6
Evolution	6
General & Introductory Life Sciences	6
Microbiology & Virology	7
Phycology	7



Salt Crystallization in Porous Media

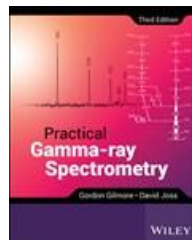
Hannelore Derluyn, Marc Prat

The crystallization of one or multiple salts in porous media (rocks, soils, building materials, etc.) is a subject of major interest in connection with numerous issues such as soil salinization, evaporation, CO₂ injection into saline aquifers, the durability of building materials and the preservation of our cultural heritage.

Salt Crystallization in Porous Media provides an interdisciplinary review of the key scientific knowledge required to understand this field of research, and illustrates the issues involved through a series of concrete examples.

This book has been written for students comp...

9781789451146
Pub Date: 9/24/24
272 pages • Hardcover
Science / Physics /
Crystallography



Practical Gamma-ray Spectrometry (3rd Edition)

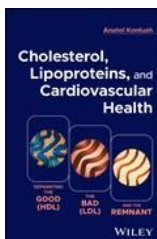
Gordon Gilmore, David Joss

The cutting-edge new edition of the classic introduction to radioactive measurement

Gamma-Ray Spectrometry is a key technique in the study of radioactive decay. It measures the rate and extent of radioactivity from a variety of sources, both natural and artificial, including cosmic ray sources, nuclear reactors, high-energy physics experiments, and more. The resulting data can be essential to environmental monitoring and to a range of experimental sciences.

For years, *Practical Gamma-Ray Spectrometry* has served as the classic introduction to this area for current or

9781119896081
Pub Date: 11/25/24
544 pages • Hardcover
Science / Spectroscopy &
Spectrum Analysis



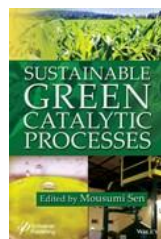
Cholesterol, Lipoproteins, and Cardiovascular Health: Separating the Good (HDL), the Bad (LDL), and the Remnant

Anatol Kontush

Discover the biology, biochemistry, and medical aspects of lipoproteins in this comprehensive overview of its historic and contemporary development

The fatty substance known as cholesterol is found in every cell of the human body and carries out several important functions. It is transported through the bloodstream as a part of particles called lipoproteins, which are divided into classes including low-density lipoprotein (LDL) and high-density lipoprotein (HDL). Distinguishing between

9781394158379
Pub Date: 10/29/24
368 pages • Hardcover
Science / Life Sciences /
Biochemistry



Sustainable Green Catalytic Processes

Mousumi Sen

Did you know that 95% of chemicals in industry are synthesized using catalysts? *Sustainable Green Catalytic Processes* offer concise descriptions of the application of catalysts in orchestrating eco-friendly transformation. These catalysts have enhanced selectivity for desired products while minimizing the creation of unwanted products. The book aims to present a collection of chapters related to green synthesis and methodologies and their applications in catalysis. These approaches have garnered attention from scientists in developing sustainable catalyst protocols that are environmentally gre...

9781394212552
Pub Date: 10/1/24
560 pages • Hardcover
Science / Chemistry



The Wiley Guide to Strategies, Ideas, and Applications for Implementing a Total Worker Health Program

Linda Tapp

Addresses safety and health hazards that affect worker wellbeing through a combined public health approach

The Wiley Guide to Strategies, Ideas, and Applications for Implementing a Total Worker Health® Program presents specific information and guidance for Total Worker Health (TWH) applications in a variety of industries as well as specific aspects of TWH. This book covers how existing safety and health activities can support and be integrated into TWH programs, exploring specific topics such as how

9781394190539
Pub Date: 10/22/24
464 pages • Paperback
Technology & Engineering
/ Industrial Health &
Safety



Organizational Risk Management: An Integrated Framework for Environmental, Health, Safety, and Sustainability Professionals, and their C-Suites

Charles F. Redinger

A hands-on roadmap to creating a risk management platform that integrates leading standards, improves decision-making, and increases organizational resilience

Organizational Risk Management delivers an incisive and practical method for the development, implementation, and maintenance of an integrated risk management system (RMS) that is integrated with ISO 31000:2018, ISO's high-level management system structure (HLS),

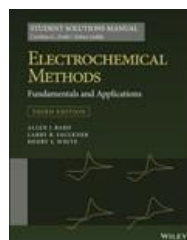
9781119538745
Pub Date: 1/2/25
368 pages • Hardcover
Technology & Engineering
/ Industrial Health &
Safety

Synergy of Bio-Chemical Processes for Photocatalytic and Photoelectrochemical Wastewater Treatment

Sadanand Pandey, Elvis Fosso-Kankeu, Sourmya Pandit

The purpose of *Synergy of Bio-Chemical Processes* covers the evolution of photocatalytic fuel cells. It assembles conceptualized critical assessments in the fields of sustainable wastewater treatment and renewable energy production. The goal of this book is to provide a comprehensive survey of the design of photocatalytic fuel cells and their applications, including environmental remediation, chemical synthesis, and green energy generation.

9781394197873
Pub Date: 10/8/24
288 pages • Hardcover
Technology & Engineering
/ Power Resources /
Electrical



Electrochemical Methods: Fundamentals and Applications 3e, Student Solutions Manual (3rd Edition)

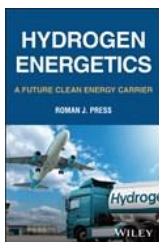
Cynthia G. Zoski, Johna Leddy, Allen J. Bard, Larry R. Faulkner, Henry S. White

Provides students with solutions to problems in the 3rd edition of the classic textbook Electrochemical Methods: Fundamentals and Applications

Electrochemical Methods is a popular textbook on electrochemistry that takes the reader from the most basic chemical and physical principles, through fundamentals of thermodynamics, kinetics, and mass transfer; all the way to a thorough treatment of all important experimental methods. Holistically, it offers comprehensive coverage of

9781119524069
Pub Date: 12/4/24
208 pages • Paperback
Science / Chemistry /
Physical & Theoretical

No Image
Available



9781394173280
Pub Date: 1/28/25
240 pages • Hardcover

Hydrogen Energetics: A Future Clean Energy Carrier

Roman J. Press

Understand the future of clean energy with this timely introduction

Hydrogen is a clean fuel that can be used to power fuel cells whose only byproduct is water. It is a flexible energy carrier that can be produced from a range of natural processes and domestic energy resources, and it has potentially widespread applications. In an era defined by global climate change and the search for sustainable energy, hydrogen energetics is a field with transformative potential.

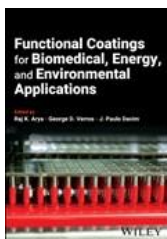
Hydrogen Energetics provides a cutting-edge overview of

No Image
Available

9781119768975
Pub Date: 1/20/25
350 pages • Hardcover
Technology & Engineering
/ Power Resources /
Electrical

AI-Based Solutions for Hybrid and Electric Vehicles

Sulabh Sachan, Sanjeevikumar Padmanaban, Sanchai Deb



9781394263141
Pub Date: 10/29/24
752 pages • Hardcover
Technology & Engineering
/ Chemical & Biochemical

Functional Coatings for Biomedical, Energy, and Environmental Applications

Raj K. Arya, George D. Verros, J. Paulo Davim

Understand functional coatings and their role in three key industries of the future

Functional coatings play a huge range of roles in industries from automotive to aerospace to electronic and beyond. They offer protection, performance enhancement, corrosion resistance, self-cleaning properties, and more. Recent developments in the field have allowed for ever more precise optimization of functional coatings, with the result that demand for these key tools is only likely to increase.

Functional Coatings for Biomedical, Energy, and

No Image
Available

9781394190713
Pub Date: 1/21/25
416 pages • Paperback
Science / Life Sciences /
Biochemistry

Introduction to Coordination Chemistry (2nd Edition)

Geoffrey A. Lawrance, Paul V. Bernhardt



9781394195022
Pub Date: 12/5/24
800 pages • Hardcover
Science / Chemistry /
Organic

Organic Reactions, Volume 115

P. Andrew Evans

A carefully curated review of the scientific literature, Volume 115 of Organic Reactions presents critical discussions of widely used organic reactions or particular steps 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. Launched in 1942, the Organic Reactions series today is a leadin...

No Image
Available

9781394195053
Pub Date: 12/17/24
800 pages • Hardcover
Science / Chemistry /
Organic

Organic Reactions, Volume 116

P. Andrew Evans

A carefully curated review of the scientific literature, Volume 116 of Organic Reactions presents critical discussions of widely used organic reactions or particular steps 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. Launched in 1942, the Organic Reactions series today is a leadin...



9781394160020
Pub Date: 1/28/25
648 pages • Hardcover
Science / Chemistry /
Organic

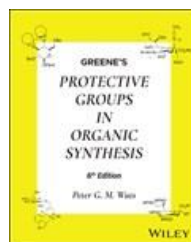
Organic Reaction Mechanisms 2022

Mark G. Moloney

Organic Reaction Mechanisms 2022, the 58th annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2022.

The following classes of organic reaction mechanisms are comprehensively reviewed:

- Reaction of Aldehydes and Ketones and their Derivatives
- Reactions of Carboxylic Acids, Phosphoric, and



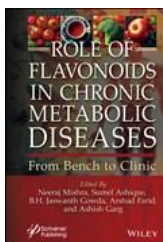
9781394233168
Pub Date: 1/15/25
1504 pages • Hardcover
Science / Chemistry /
Organic

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

Peter G. M. Wuts

DIntegral, 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



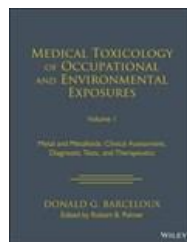
Role of Flavonoids in Chronic Metabolic Diseases: From Bench to Clinic

Neeraj Mishra, Sumel Ashique, B. H. Jaswanth Gowda, Arshad Farid, Ashish Garg

This comprehensive volume covers the entire field of flavonoids by explaining their complex functions in reducing chronic metabolic illnesses, from the early stages of laboratory research to the development of therapeutic uses.

Flavonoids are plant-based substances proven to have potential medical benefits in managing chronic metabolic disorders. This book explores concepts in laboratory research and therapeutic capabilities to enhance awareness of flavonoids in a medical context.

9781394238040
Pub Date: 10/1/24
624 pages • Hardcover
Technology & Engineering
/ Nanotechnology &
Mems

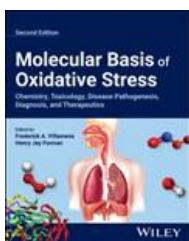


Medical Toxicology: Occupational and Environmental Exposures: Metals and Metalloids: Clinical Assessment, Diagnostic Tests, and Therapeutics

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

9781119881247
Pub Date: 11/13/24
976 pages • Hardcover
Science / Chemistry /
Industrial & Technical



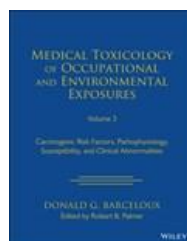
Molecular Basis of Oxidative Stress: Chemistry, Toxicology, Disease Pathogenesis, Diagnosis, and Therapeutics (2nd Edition)

Frederick A. Villamena, Henry Jay Forman

In-depth resource on mechanisms of oxidative stress and damage and the role of free radicals in disease, diagnosis, and therapeutics

Molecular Basis of Oxidative Stress is a comprehensive resource on the molecular and chemical bases of oxidative stress, providing insight on various diseases caused by oxidative stress (cancer, cardiovascular, neurodegenerative) and the role of reactive oxygen species (ROS) in disease pathogenesis along with in-depth knowledge about the mechanisms of oxidative stress and

9781119790266
Pub Date: 12/17/24
560 pages • Hardcover
Science / Chemistry /
Industrial & Technical

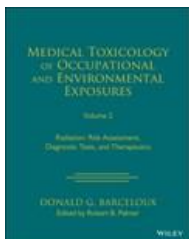


Medical Toxicology of Occupational and Environmental Exposures to Carcinogens: Risk Factors, Pathophysiology, Susceptibility, and Clinical Abnormalities, Volume 3

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

9781119881261
Pub Date: 1/9/25
704 pages • Hardcover
Science / Chemistry /
Industrial & Technical



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

9781119881254
Pub Date: 1/9/25
480 pages • Hardcover
Science / Chemistry /
Industrial & Technical



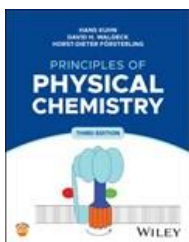
Medical Toxicology: Occupational and Environmental Exposures, Multi-Volume

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

9781119872962
Pub Date: 1/9/25
2160 pages • Hardcover
Science / Chemistry /
Industrial & Technical

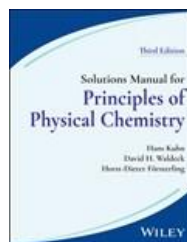


Principles of Physical Chemistry: Structure of Atoms, Molecules, and Solids (3rd Edition)

Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling

This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry, which are the foundational principles of Chemistry. The book introduces the student to the principles underlying the essential sub-fields of quantum mechanics, atomic and molecular structure, atomic and molecular spectroscopy, statistical thermodynamics, classical thermodynamics, solutions and equilibria, electrochemistry, kinetics and reaction dynamics, macromolecules, and organized molecular assemblies. Importantly, the book develops and applies these

9781119852667
Pub Date: 10/29/24
1280 pages • Hardcover
Science / Chemistry /
Physical & Theoretical



Solutions Manual for Principles of Physical Chemistry, 3rd Edition (3rd Edition)

Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling

This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry, Third Edition.

This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry, which are the foundational principles of Chemistry. The book introduces the student to the principles underlying the essential sub-fields of quantum mechanics, atomic and molecular structure, atomic and molecular spectroscopy, statistical thermodynamics, classical thermodynamics, solutions and equilibria,

9781119852902
Pub Date: 10/29/24
560 pages • Paperback
Science / Chemistry /
Physical & Theoretical

No Image
Available

Circular Economy Handbook in Agriculture and Food Industry

Radhakrishnan Edayileveetil Krishnankutty, Ashitha Jose, Swarup Roy, Jyotishkumar Parameswaranpillai

No Image
Available

Nanoformulations for Agricultural Applications

Radhakrishnan Edayileveetil Krishnankutty, Aswani R., Visakh P. M.

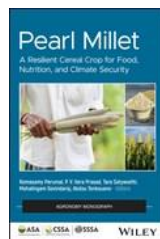
9781394174508
Pub Date: 10/15/24
500 pages • Hardcover
Technology & Engineering
/ Agriculture

9781119819097
Pub Date: 12/5/24
390 pages • Hardcover
Technology & Engineering
/ Agriculture / Sustainable
Agriculture

No Image
Available

ICT and Agriculture 4.0

Mangesh M. Ghonge, Pradeep N., Andreas Stylianou, Shah Jahan Leghari



Pearl Millet: A Resilient Cereal Crop for Food, Nutrition, and Climate Security

Ramasamy Perumal, P. V. Vara Prasad, Tara Satyavathi, Mahalingam Govindaraj, Abdou Tenkouano

9781394185832
Pub Date: 12/5/24
350 pages • Hardcover
Technology & Engineering
/ Agriculture

9780891184041
Pub Date: 10/29/24
544 pages • Hardcover
Technology & Engineering
/ Agriculture / Agronomy

Discover, in this age of climate change, the potential impact of pearl millet—considered a viable alternative cereal crop for semi-arid and hot areas

Pearl millet, a warm-season, dryland cereal crop, already serves as a staple food for over 90 million people in Africa and Asia. Its nutritional superiority relative to other cereal crops, such as rice, wheat, maize, and sorghum, and its hardiness and adaptability to harsh environments and poor soils make it a potentially life-saving resource for poor

No Image
Available

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...

9780891187394
Pub Date: 1/9/25
400 pages • Paperback
Technology & Engineering
/ Agriculture / Agronomy

No Image
Available

Guide to Biology Statistics (2nd Edition)

Edzard van Santen, Stephen R. Bowley, Simon Riley, Diane K. Michelson, Ruth M. Hummel

Understand applied statistics and its relationship to biology

Biology and its related sciences generate prodigious quantities of data through experimentation and observation. Interpreting this data and using it to generate statistically defensible inferences has become one of the most significant components of modern biological research. There are, however, very few up-to-date resources by which graduate students and researchers in biology can familiarize themselves with the key methodologies of applied statistics as they specifically

9780891183945
Pub Date: 11/27/24
848 pages • Paperback
Mathematics / Probability
& Statistics

No Image
Available

Microanalysis of Atmospheric Particles: Techniques and Applications

Joseph M. Conny, Peter R. Buseck

Studying atmospheric particles from a microscopic perspective

Most of what is visible in the atmosphere - such as pollution, dust, haze, fog, and clouds - is due to micrometer- and nanometer-sized aerosol particles. It is important to understand the source, characteristics, and behavior of these small particles as they play a fundamental role in large-scale atmospheric processes. *Microanalysis of Atmospheric Particles: Techniques and Applications* presents different microscopic techniques for studying aerosols and explores a range of applications in



Rare Earth Elements: Sustainable Recovery, Processing, and Purification

Athanasios K. Karamalidis, Roderick Eggert

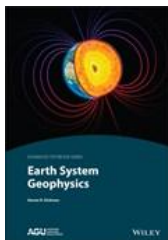
Explores innovations in the production of rare earths that would be more sustainable

Rare earth elements are used in many modern technologies including electronics, clean energy, defense, aerospace, and automotive. It is important that increasing demand is met in ways that are more environmentally, socially and economically sustainable than in the past.

Rare Earth Elements: Sustainable Recovery, Processing, and Purification describes sources of rare earths and methods of production that have the potential to make recovery, processing, and purification more sustainable

9781119554349
Pub Date: 12/17/24
288 pages • Hardcover
Science / Earth Sciences /
Geology

9781119515036
Pub Date: 9/18/24
400 pages • Hardcover
Science / Physics /
Geophysics



Earth System Geophysics

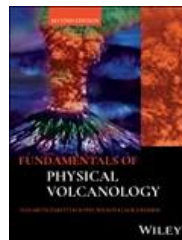
Steve R. Dickman

Geophysics helps us understand how our planet works by connecting complex real-world phenomena with fundamental physical laws. It provides the tools, both conceptual and quantitative, for understanding interactions between the different components of the Earth System: the solid earth, oceans, atmosphere, and biosphere.

Earth System Geophysics is a comprehensive textbook for upper-level undergraduate and graduate students in the Earth sciences that uses Earth System Science as the framework for learning about geophysics.

About this volume:

9781119627951
Pub Date: 10/15/24
928 pages • Hardcover
Science / Physics /
Geophysics



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

In the newly revised second edition of *Fundamentals of Physical Volcanology*, the authors provide a comprehensive introduction to the processes that control when and how volcanoes erupt. The book addresses all aspects of modern volcanology, from petrology and geochemistry to rock physics, fluid dynamics and thermodynamics.

With the help of new and improved illustrations, this new

9781119266419
Pub Date: 12/23/24
240 pages • Paperback
Science / Earth Sciences /
Geology



Landscapes on Fire: Impacts on Uplands, Rivers, and Communities

Ellen Wohl

Explores the effects of wildfires on land, water, vegetation, wildlife, and humans

Across the world, wildfires are increasing in frequency, extent, and severity, driven by changes in land use and climate. After the immediate hazards of fire and smoke have passed, landscapes and ecosystems can be left altered for decades.

9781394235131
Pub Date: 12/17/24
288 pages • Hardcover
Science / Earth Sciences

No Image
Available

Salt in the Earth Sciences, Volume 2: Basin Analysis and Salt Tectonics

Webster Mohriak

A comprehensive review of giant salt basins, salt tectonic events, and their global implications

Salt is formed when water rich in evaporite minerals accumulates on the Earth's surface and then evaporates. Over time, pressure and tectonics change the structure and shape of salt layers. Recent technological advances have improved the interpretation and modeling of subsurface salt structures.

Salt in the Earth Sciences: Basin Analysis and Salt Tectonics presents a global overview of giant salt basins formed under diverse tectonic settings, connecting salt

9781394307036
Pub Date: 12/17/24
544 pages • Hardcover
Science / Earth Sciences /
Geology

Salt in the Earth Sciences, Volume 1: Evaporite Rocks and Salt Deposition

Webster Mohriak

A comprehensive review of salt deposition in sedimentary environments worldwide

Salt is formed when water rich in evaporite minerals accumulates on the Earth's surface and then evaporates. Over time, pressure and tectonics change the structure and shape of salt layers. Recent technological advances have improved the interpretation and modeling of subsurface salt structures.

Salt in the Earth Sciences: Evaporite Rocks and Salt Deposition presents a global overview of salt deposition and deformation in sedimentary basins, synthesizing data

9781119405214
Pub Date: 12/17/24
576 pages • Hardcover
Science / Earth Sciences /
Geology

No Image
Available

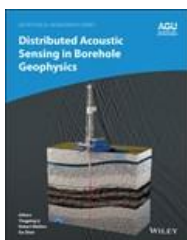
Tectonics and Seismic Structure of Alaska and Western Canada: EarthScope and Beyond

Natalia A. Ruppert, Margarete A. Jadamec, Jeffrey T. Freymueller

New insights into geologic and tectonic processes in Alaska and northwestern Canada

The northwest of the North American continent is geologically dynamic and tectonically active. A network of seismic and geodetic instruments deployed across the region as part of the EarthScope project provided data crucial to understanding its geological, tectonic, and seismic processes.

9781394195916
Pub Date: 12/17/24
576 pages • Hardcover
Science / Earth Sciences /
Geology



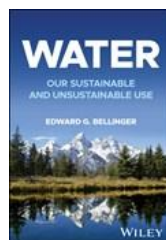
Distributed Acoustic Sensing in Borehole Geophysics

Yingping Li, Robert Mellors, Ge Zhan

Presents the latest advances in borehole distributed acoustic sensing and diverse applications for subsurface geophysics

Borehole geophysics involves measuring, imaging, and monitoring subsurface structures and activities by putting instruments into wellbores. Distributed acoustic sensing (DAS) technology is emerging as an effective and reliable tool in borehole geophysics because optic fiber cables deployed at depth can produce high-quality data and images, even in harsh high-temperature and high-pressure environments.

9781394179244
Pub Date: 1/2/25
576 pages • Hardcover
Science / Earth Sciences /
Geology



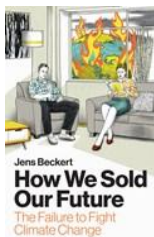
Water: Our Sustainable and Unsustainable Use

Edward G. Bellinger

A holistic approach to humanity's global use and management of water resources

In *Water: Our Sustainable and Unsustainable Use*, distinguished environmental researcher Edward Bellinger delivers an unbiased and scientifically accurate exploration of every major area of the management and use of water by human beings. Readers will benefit from a coordinated and holistic approach to the subject, including sections covering needs, availability, governance, public health engineering, economics, the potential effects of climate change, water management, and sustainability, allowing the reader to unde...

9781118797181
Pub Date: 11/19/24
416 pages • Paperback
Science / Earth Sciences /
Hydrology



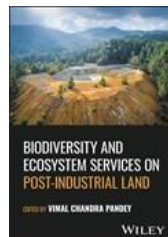
How We Sold Our Future: The Failure to Fight Climate Change

Jens Beckert, Ray Cunningham

For decades we have known about the dangers of global warming. Nevertheless, greenhouse gas emissions continue to increase. How can we explain our failure to take the necessary measures to stop climate change? Why are societies, despite the mounting threat to ourselves and our children, so reluctant to take action?

In this important new book, Jens Beckert provides an answer to these questions. Our apparent inability to implement basic measures to combat climate change is due to the nature of power and incentive structures affecting economic activities, culture, and governance.

9781509565092
Pub Date: 2/18/25
208 pages • Hardcover
Political Science / Political Economy



Biodiversity and Ecosystem Services on Post-Industrial Land

Vimal Chandra Pandey

Expert guide to ecological restoration of post-industrial lands that explains how to re-introduce biodiversity and ecosystem services

Biodiversity and Ecosystem Services on Post-Industrial Land shows how to harness natural processes for the rehabilitation of disturbed sites. It covers both the initial stages associated with the improvement of physicochemical and biological substrate characteristics as a precondition for continuous vegetation, as well as the subsequent re-establishment of rich communities of plant species, and how these communities may be optimized for

9781394187386
Pub Date: 1/7/25
416 pages • Hardcover
Science / Environmental Science



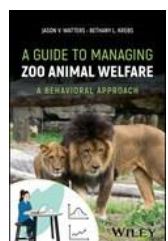
Natural History of Silence

Jérôme Sueur, Helen Morrison

In our busy, noisy world, we may find ourselves longing for silence, but what is silence exactly? Is it the total absence of sound? Or is it the absence of the sound created by humans – the kind of deep stillness you might experience in a remote mountain landscape covered in snow, far away from the bustle of human life?

When we listen closely, silence reveals a neglected reality. Neither empty nor singular, silence is instead plentiful and multiple. In this book, eco-acoustic historian Jérôme Sueur allows us to discover a vast landscape of silences which trigger the full gamut of our emotions.

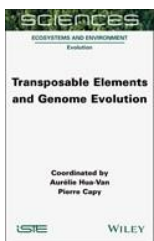
9781509564026
Pub Date: 1/28/25
250 pages • Paperback
Nature



A Guide to Managing Zoo Animal Welfare: A Behavioral Approach

Jason Watters, Bethany L. Krebs

9781118884805
Pub Date: 10/24/24
208 pages • Hardcover
Science / Life Sciences / Zoology



Transposable Elements and Genome Evolution

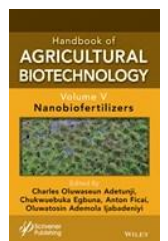
Aurélie Hua-Van, Pierre Capy

Since their discovery by Barbara McClintock in the mid-20th century, the importance of transposable elements in shaping the architecture, function and evolution of genomes has gradually been unveiled.

These DNA sequences populate nearly all genomes and are viewed as genomic parasites. They are mobile, capable of proliferating within genomes and also commonly travel between species.

These elements are mutagenic and are responsible for several human genetic disorders, but they also constitute a major source of genetic diversity. Some insertions have

9781789451788
Pub Date: 9/24/24
304 pages • Hardcover
Science / Life Sciences / Developmental Biology

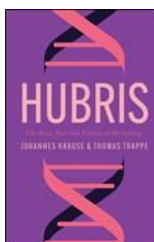


Handbook of Agricultural Biotechnology, Volume 5: Nanobiofertilizers (2nd Edition)

Charles Oluwaseun Adetunji, Chukwuebuka Egbuna, Anton Fica, Oluwatosin Ademola Ijabadeniyi

The Handbook of Agricultural Biotechnology, Volume 5: Nanobiofertilizers will be a reference manual for different industries for mass production of sustainable, eco-friendly, and cheaper nanobiofertilizers. Climate change has imposed a lot of dangers to increasing agriculture productivity, especially in temperature-limited environments. The study of nanobiofertilizers provides insights into the applications of metabolomics techniques and their impact on the environment. This book heavily encourages research, development, and

9781394211494
Pub Date: 10/22/24
592 pages • Hardcover
Technology & Engineering / Agriculture



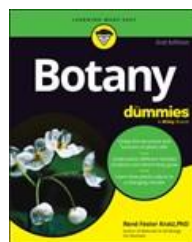
Hubris: The Rise, Fall, and Future of Humanity

Johannes Krause, Sharon Howe

Humans are the most intelligent beings this planet has ever produced. But how is it that we can travel into space, cure diseases and decode the fundamentals of life and, at the same time, find ourselves faced with an existential crisis that threatens to overwhelm us? What lies behind this uncharacteristic failure to master the most important challenge of our existence?

In this compelling book, the leading archaeogeneticist Johannes Krause and journalist Thomas Trappe investigate what DNA can tell us about how we got to where we are and what our future might be. They show how the first

9781509562619
Pub Date: 2/3/25
264 pages • Hardcover
Science / Life Sciences / Evolution



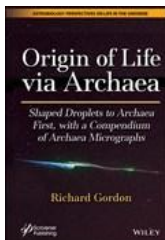
Botany For Dummies (2nd Edition)

Rene Fester Kratz

Harvest basic botany knowledge from this abundant book

Botany For Dummies gives you a thorough overview of the fundamentals of botany, but in simple terms that anyone can understand. Great for supplementing your botany coursework or brushing up before an exam, this book covers plant evolution, the structure and function of plant cells, and plant identification. Plus, you'll learn about how plants of different types are changing and adapting in response to changing climates. This new edition goes into more detail on fungi—not technically plants, but no one is holding that against them. Regardle...

9781394273898
Pub Date: 11/5/24
384 pages • Paperback
Science / Life Sciences / Botany



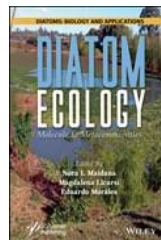
Origin of Life via Archaea: Shaped Droplets to Archaea First, with a Compendium of Archaea Micrographs

Richard Gordon

This book surveys the models for the origin of life and presents a new model starting with shaped droplets and ending with life as polygonal Archaea; it collects the most published micrographs of Archaea (discovered only in 1977), which support this conclusion, and thus provides the first visual survey of Archaea.

Origin of Life via Archaea's purpose is to add a new hypothesis on what are called "shaped droplets", as the starting point, for flat, polygonal Archaea, supporting the

9781119901020
Pub Date: 10/1/24
1264 pages • Hardcover
Science / Life Sciences / Microbiology

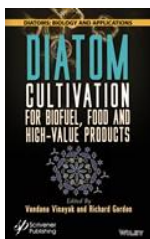


Diatom Ecology: Molecule to Metacommunities

Eduardo Morales, Nora I. Maidana

This book concentrates on diatom ecology. In recent years, there has been a considerable increase in the amount of research devoted to diatom ecology, with a wide spectrum of approaches. Currently, there are no competing books concentrating solely on diatom ecology that deal with the most current topics, methods, or techniques in the field. The book explores the benefits and progress in diatom ecology. The topics chosen discuss diversity, environmental indicators, and climate change. With the inclusion of questions about diatom ecology, each chapter contains suitable tools and features for eco...

9781394174454
Pub Date: 10/8/24
464 pages • Hardcover
Science / Life Sciences / Biology



Diatom Cultivation for Biofuel, Food and High-Value Products

Vandana Vinayak, Richard Gordon

Diatom Cultivation for Biofuel, Food, and High-Value Products covers the scientific, economic, and practical aspects of using diatoms for multiple purposes. This book is an integrated approach to diatom cultivation, including discussions on techniques, harvesting methods, and innovative technologies. Diatom research has spawned more interest in biofuel production, serving as smart containers for biosensing pollutants and components of interest when integrated with different nanomaterials.

A unique set of features and topics about diatom products

9781394174485
Pub Date: 11/12/24
432 pages • Hardcover
Science / Life Sciences / Biology

Wiley Offices in Asia

China

Beijing

Room 805-808, Floor 8, Sun Palace,
No. 12A, Taiyanggong Middle Road
Chaoyang District, Beijing, P.R. China
Postal code 100028
Tel: (86) 10 8541 9300
Fax: (86) 10 8541 9400
china_marketing@wiley.com

Shanghai

Units A&B, 15th Floor, Office Building Phase
II, Shinmay Union Square, No. 506 Shang
Cheng Road, Pudong New District, Shanghai
200120, P.R. China
Tel: (86) 21 8036 1200
Fax: (86) 21 6160 1661
china_marketing@wiley.com
www.wileychina.com

India

Corporate office

1402, 14th Floor,
World Trade Tower
Plot No. C-1, Sector - 16,
Noida - 201301
Tel: 0120-6291100
csupport@wiley.com
delsales@wiley.com

Bengaluru

14, Dr. Raj Kumar Road,
4th N Block, Rajaji Nagar,
Bengaluru - 560010
Tel: 91-80-23132383
blrsales@wiley.com

Mumbai

Wework Vijay Diamond
No. A3 & B2, Cross Road B,
Marol, Industrial Area,
Mumbai, Maharashtra 400093
mumsales@wiley.com

Japan

Nomura Fudosan Nishi Shinjuku Bldg.
8F 8-4-2 Nishi Shinjuku Shinjuku-ku,
Tokyo 160-0023, Japan
Tel: (81) 3 4520 9060
Fax: (81) 3 4520 9059
edu-japan@wiley.com
www.wiley.co.jp

Malaysia

Tingkat 8 & 9,
Menara UAC (Room 911)
No 12, JLN PJU 7/5,
Mutiar Damansara
47800 Petaling Jaya, Selangor
Tel: (60) 3 7666 5033
Fax: (60) 3 7722 5901
cswileymalaysia@wiley.com

Singapore

13 Stamford Road
#02-11, No18 Capitol Singapore
Singapore 178905
Tel: (65) 6643 8000
Fax: (65) 6643 8008
asiaorders@wiley.com

South Korea

#4007 Concordian, 76,
Saemunan-ro, Jongno-gu,
Seoul, Republic of Korea
Tel: (82) 2 739 7908
Fax: (82) 2 337 1929
akorea@wiley.com

Taiwan

B1, 97 Fuxing North Road
Songshan District
Taipei 105, Taiwan
Fax: (886) 2 6602 1235
ataiwan@wiley.com

For orders in all other countries in Asia, please contact:

Customer Hotline: (65) 6643 8333
Fax: (65) 6643 8397
Email: asiaorders@wiley.com

Returns Centre (Asia)

returناسيا@wiley.com