



# **Chemistry** **Material Science** **Life &** **Earth Sciences**

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May to August 2024

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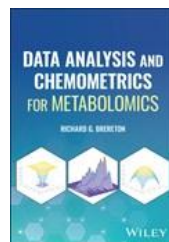
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### International Tables for Crystallography, Volume I: X-ray Absorption Spectroscopy and Related Techniques

Christopher Chantler, Bruce Bunker, Federico Boscherini

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### Data Analysis and Chemometrics for Metabolomics

Richard G. Brereton

#### Understand new modes of analyzing metabolomic data

Metabolomics is the study of metabolites, small molecules and chemical substrates within cells or larger structures which collectively make up the metabolome. The field of metabolomics stands to benefit enormously from chemometrics, an approach which brings advanced statistical techniques to bear on data of this kind.

*Data Analysis and Chemometrics for Metabolomics* constitutes an accessible introduction to chemometric techniques and their applications in the field of

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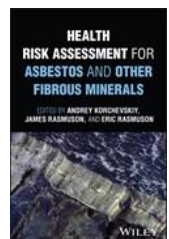
### Practical Gamma-ray Spectroscopy (3rd Edition)

Gordon Gilmore, David Joss

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

Gammy-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



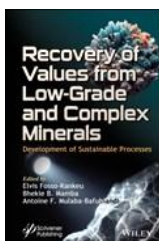
### Health Risk Assessment for Asbestos and Other Fibrous Minerals

Andrey Korchevskiy, James Rasmuson, Eric Rasmuson

#### Evaluates the risks and human health impacts of asbestos and other fibrous minerals

Despite continuous efforts to eliminate asbestos from commercial use, it remains a serious occupational and environmental hazard. *Health Risk Assessment for Asbestos and Other Fibrous Minerals* provides a rigorous discussion of risk assessment methodology for elongate mineral particles, covering basics, theory, models, and practical applications, enabling readers to participate in carrying out efficient and informed health risk assessments, to estimate potential adverse effects for

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### Recovery of Values from Low-Grade and Complex Minerals: Development of Sustainable Processes

Elvis Fosso-Kankeu, Bhekile B. Mamba, Antoine F. Mulaba-Bafubindi

#### Recovery of Values from Low-Grade and Complex Minerals

**The book elaborates on various physicochemical properties of minerals and technological developments to improve the recovery of metals while ensuring cost-effectiveness and minimal environmental impact.**

The mineral industry is undergoing significant cultural, organizational, and technological transformations to



### Airborne Biocontaminants and their Impact on Human Health

Rajeev Singh, Anamika Singh

This book explores the relationships between biological contaminants and human health, as well as providing in-depth information of numerous biological contaminants found in diverse settings such as homes, hospitals, businesses, and schools. The current literature study has provided qualitative and quantitative data on bio-contaminants in these diverse indoor contexts. The main objective of this book is to investigate the pattern of morbidity among the people living in industrial, commercial, and residential due to poor air quality. Furthermore, biological sampling data obtained from

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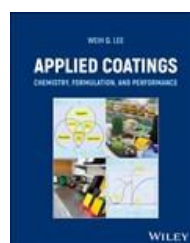


### Microbes Based Approaches for the Management of Hazardous Contaminants

Ajay Kumar, Livleen Shukla, Joginder Singh, Luiz Fernando Romanholo Ferreira

#### Learn the various microbiological aspects one deals with in environment management and the remediation of toxic contaminants in the environment

In recent years, the accumulation of hazardous contaminants has caused a broad-based deterioration in global environmental quality. These have had wide-ranging negative social impacts, affecting climate, soil and water ecosystems, and more. As traditional methods of contaminant mitigation have proven inadequate to the



### Applied Coatings: Chemistry, Formulation, and Performance

Weih Q. Lee

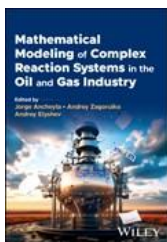
#### APPLIED COATINGS

**An integrated collection of case studies providing a concise guide for professionals working with coatings materials in academia and industry**

In *Applied Coatings: Chemistry, Formulation, and Performance*, distinguished scientist Dr. Weih Q. Lee delivers an illuminating collection of case studies designed to connect various elements of applied coatings technology. Going beyond generic discussions, the author describes the fundamental chemistry, formulations, and properties of applied coating materials – including the

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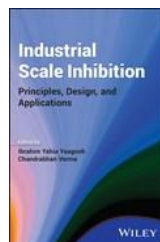
## Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry

Jorge Ancheyta, Andrey Zagoruiko, Andrey Elyshev

**Master the fundamentals of reaction systems modeling for the age of decarbonization**

Reactor design is one of the most important parts of the oil and gas industry, with reactor processes and the accompanying technologies constantly evolving to meet industry needs. A crucial component of effective reactor design is modelling complex reaction systems, which can help predict commercial performance, shape safety procedures, and more. At a time when decarbonization and clean energy transition are among the fundamental global technological challenges, it has never been more

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Ibrahim Yahia Yaagoob, Chandrabhan Verma

**Learn the synthesis, characterization, scaling mechanisms, and applications of green antiscalants to be utilized in modern industrial platforms**

Scale formation, or mineral accumulation on the interior surfaces of water lines and containers, is a serious and expensive hazard in numerous industries. The prevention and elimination of scales has long been a major project demanding the production of antiscalant materials; increasing awareness of the toxicity of traditional antiscalants, however, and rising environmental

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Lida Hashemi, Mohammad Yaser Masoomi



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Neil K. Garg

The current volume continues the tradition of the Organic Syntheses series, providing carefully checked and edited experimental procedures that describe important synthetic methods, transformations, reagents, and synthetic building blocks or intermediates with demonstrated utility in organic synthesis. These significant and interesting procedures should prove worthwhile to many synthetic chemists working in increasingly diverse areas. A trusted guide for professionals in organic and medicinal chemistry in academia, government, and industries, including pharmaceuticals, fine chemicals, agrochem...

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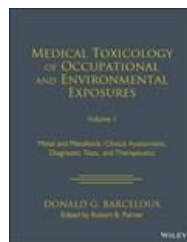
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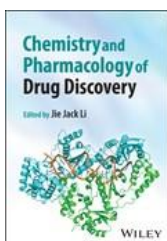


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Donald G. Barceloux, Robert B. Palmer

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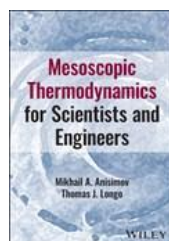
### Chemistry and Pharmacology of Drug Discovery

Jie Jack Li

**Case studies of 20 successful FDA-approved drugs, from biological rationale to clinical efficacy studies and state-of-the-art applications**

*Chemistry and Pharmacology of Drug Discovery* illustrates how chemistry, biology, pharmacokinetics, and a host of disciplines come together to produce successful medicines, discussing a total of 20 drugs that are all FDA-approved post 2021—some of which are first-in-class and revolutionary.

The four sections in this book cover Infectious Disease, Cancer Drugs, CNS Drugs, and Miscellaneous Drugs. Each

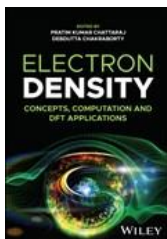


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Mikhail A. Anisimov, Thomas J. Longo

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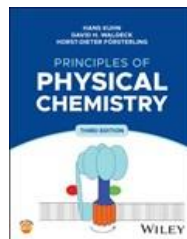
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Electron density or the single particle density is a 3D function even for a many-electron system. Electron density contains all information regarding the ground state and also about some excited states of an atom or a molecule. All the properties can be written as functionals of electron density, and the energy attains its minimum value for the true density. It has been used as the basis for a quantum chemical computational method called Density

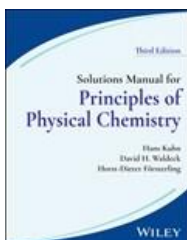


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This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry, which are the foundational principles of Chemistry. The book introduces the student to the principles underlying the essential 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



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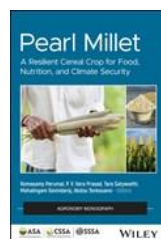
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**Pearl Millet: A Resilient Cereal Crop for Food, Nutrition, and Climate Security**

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

**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**

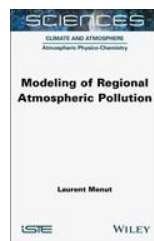
*Pearl millet*, a warm-season, dryland cereal crop, already serves as a staple food for over 90 million people in Africa and Asia. Its nutritional superiority relative to other cereal crops, such as rice, wheat, maize, and sorghum, and its hardiness and adaptability to harsh environments and poor soils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

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Laurent Menut

This book describes the main concepts used to develop and implement chemistry-transport models to calculate the evolution of regional air pollution.

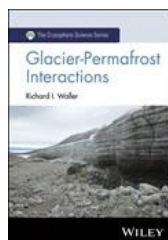
Since physico-chemical principles are already widely presented in various works, the perspective chosen for this book concerns the modeling of these processes. As modeling can be a simplification of reality in a particular study framework, we will try to show whether the processes represented are well modeled or not. For each process, we will discuss the simplifying assumptions that have been made, the various possible ways for improvement and the...

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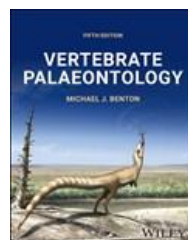
Richard I. Waller

**Glacier-Permafrost Interactions**  
**A systematic exploration of the interactions between glaciers and permafrost**

In *Glacier-Permafrost Interactions*, experienced glaciologist Richard I. Waller delivers a comprehensive discussion of the interactions between glaciers and permafrost. The book is highly relevant to contemporary debates regarding ongoing recession of glaciers and the degradation of permafrost in the face of global warming. By integrating modern-era observations with findings from Quaternary science, this book demonstrates how glaciers and permafrost can interact and behave as an integra...



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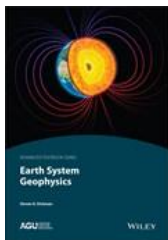
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Michael J. Benton

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Steve R. Dickman

### A textbook that approaches geophysics from an Earth System Science perspective

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

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Thomas M. DeSutter; David E. Clay, Girisha K. Ganjegunte, James D. Oster

### Explore the growing problem of soil salinity and sodicity and its impact on the environment, profitability, the human population, and soil resilience.

In *Salinity and Sodicity: A Growing Global Challenge to Food Security, Environmental Quality and Soil Resilience*, a team of distinguished educators delivers an expert discussion of salinity and sodicity management. The book is designed to improve the problem-solving capabilities of



## Rare Earth Elements: Sustainable Processing, Purification, and Recovery

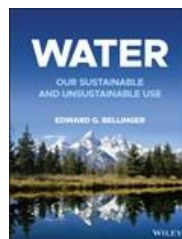
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### Explores innovations in the production of rare earths that would be more sustainable

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.

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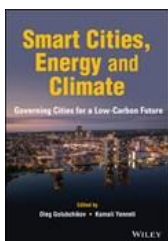
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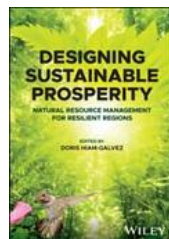
## Smart Cities, Energy and Climate: Governing Cities for a Low-Carbon Future

Oleg Golubchikov, Komali Yenneti

### Collective insight of key thought leaders in the field, combining theoretical, methodological, and empirical knowledge

*Smart Cities, Energy and Climate: Governing Cities for a Low-Carbon Future* is a seminal work that draws together representative insights and case studies on this emerging topic, combining and synthesizing important theoretical, methodological, and empirical debates on low-carbon urbanism across a variety of disciplines—including environmental and urban studies, sociology, geography, engineering and politics.

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## Designing Sustainable Prosperity: Natural Resource Management for Resilient Regions

Doris Hiam-Galvez

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The process focuses on regional economies. *Designing Sustainable Prosperity* (DSP) is a step by step blueprint for transforming economies from being dependent on short term natural resource extraction into long-term sustainable prosperity. The outcome is the creation of sustainable, circular economies that prioritise waste reduction and use recycling and renewable resources to actively implement climate change solutions and where

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## Planet Aqua: Rethinking Our Home in the Universe

Jeremy Rifkin

What would happen if we were to awaken one day and suddenly realize that the world we live in appeared eerily alien, as if we'd been teleported to some other distant world? That frightening prospect is now. Our planetary hydrosphere, which animates all of life on Earth, is rebelling in the wake of a global warming climate, spurring biblical spring floods, devastating summer droughts, heatwaves, and wildfires and powerful autumn hurricanes and typhoons, wreaking havoc on ecosystems and society.

For too long we have misjudged the very nature of our existence and to understand how our civilization will

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## Aquatic Biotechnologies: From Genetic Engineering to Enzymatic or Fermentation Engineering

Joël Fleurence

Developed over several decades, the concept of aquatic biotechnology refers to aquatic organisms, be they of animal or plant origin. It involves transforming biological resources into products for human and animal consumption. The emergence of transgenic fish (such as AquAdvantage salmon) and their use as foodstuffs has reopened the societal debate on the place of genetically modified organisms in our diet.

This new aquaculture based on genetic engineering is known as the "blue revolution." However, "blue"

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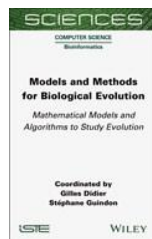


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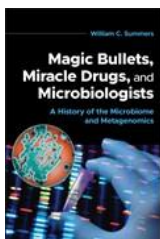
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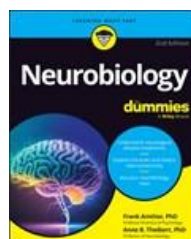
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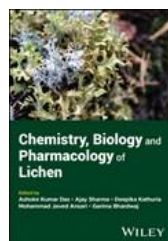
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