



Life & Earth Sciences

January to April 2024

Table of Contents

Agriculture

Agricultural Engineering	1
Crops	1

Earth Science

Geology & Geophysics	1
Hydrological Sciences	1

Environmental Studies

Environmental Economics & Politics	2
Environmental Ethics	2
Environmental Management, Policy & Planning	2
Environmental Science	2

Life Sciences

Bioinformatics & Computational Biology	3
Cell & Molecular Biology	3
Ecology & Organismal Biology	3
Microbiology & Virology	3
Microscopy	4

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Soil Health and Sustainable Agriculture in Brazil

Mendes

A far-reaching survey showcasing the improvements made to soil health in Brazil

The maintenance of healthy soil resources provides the foundations for an array of global efforts and initiatives that affect humanity. Researchers, consultants, and farmers must be able to correctly examine and understand the complex nature of this essential, fragile resource. *Soil Health and Sustainable Agriculture in Brazil* provides a highly readable overview of the major cropping systems and management practices adopted in Brazil to improve soil health and sustain agricultural/forest production

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Glacier-Permafrost Interactions

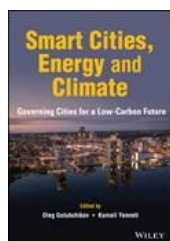
RI Waller

A systematic exploration of the interactions between glaciers and permafrost

In *Glacier-Permafrost Interactions*, distinguished glaciologist Richard Waller delivers a comprehensive discussion of the interaction between glaciers and permafrost. The book is extraordinarily relevant to contemporary debates regarding the rate of glacial retreat and the stability of permafrost in the face of global warming. By integrating modern-era observations with findings from Quaternary science, a compelling and robust model of the glacier-permafrost system is presented.

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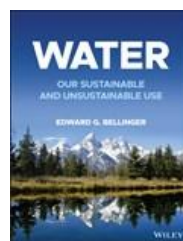
Smart Cities, Energy and Climate: Governing Cities for a Low-Carbon Future

O Golubchikov

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.

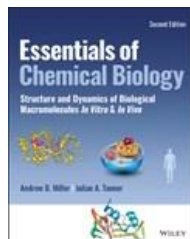
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Edward G. Bellinger

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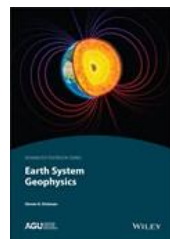
Essentials of Chemical Biology (2nd Edition)

Miller

Essentials of Chemical Biology Discover a detailed knowledge of concepts and techniques that shape this unique multi-discipline

Chemical Biology is devoted to understanding the way that Biology works at the molecular level. This is a problem-driven multi-discipline, incorporating as it does Organic, Physical, Inorganic, and Analytical Chemistry alongside newer emerging molecular disciplines. In recent years, Chemical Biology has emerged as a vibrant and growing multi-discipline distinct from Biochemistry that is focused on the quantitative analyses of the structures and functions of biological m...

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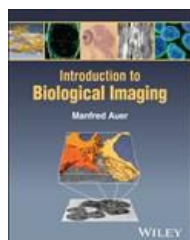
Dickman

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.

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 in geophysics

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M Auer

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Remediation of Heavy Metals: Sustainable Technologies and Recent Advances

R Selvasembian

Meet the challenge of contaminated soil with a range of sustainable tools

The remediation of soils which have been polluted by trace metals is an increasingly significant environmental challenge in an industrialized global economy. The ongoing revolution in green technologies, however, has seen a range of sustainable methods emerge for remediating soils, water, and other aspects of the environment polluted by trace metals. By putting them into practice, environmental researchers and industrial professionals will be able to improve soil and groundwater quality and public

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Rising Contagious Diseases: Basics, Management, and Treatments

Amponsah

This book presents important information on several emerging and re-emerging infectious diseases. It offers succinct, details into many aspects of 28 diverse infectious diseases including COVID-19, monkeypox, Ebola, Lyme disease, malaria, and bird and swine flu. Expert contributors from around the world explain these diseases over the course of 30 chapters of fundamental facts alongside practical and clinical data. As opposed to other published books, this stands out because of the featured infectious diseases, covering several which are not similarly addressed elsewhere.

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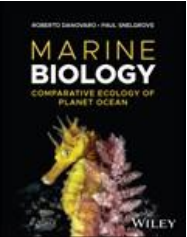
L Shang

Marine Biology: A Comparative Ecology Approach to Planet Ocean

R Danovaro

Marine Biology: A Comparative Ecology Approach to Planet Ocean provides a learning tool to those who love the ocean to help them understand and learn about the life that populates it, the extraordinary adaptations of marine organisms to their environment, and the spectacular variety of marine life forms that inhabit the many marine habitats and contribute to the life support system of Planet Ocean.

The book introduces marine biology by seeing the ocean through the eyes of its inhabitants, describing the properties of sea water, the surface waters and its



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R Attfield

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Thiele

The quest for sustainability has generated lifestyle changes for individuals across the globe, transformations within the arts, sciences, business, design, engineering, and agriculture, innovative policies and laws, and historic international agreements. Yet the meaning of and means to achieving sustainability remain unsettled and disputed, even as its crucial importance in the face of the climate crisis grows.

The third edition of this popular and lively text explores the concept and practice of sustainability across a broad range of issues and topics. Fully revised and updated, the book

Microbial Physiology: Unity and Diversity

Stevens

Explore the fascinating world of microbes with this comprehensive, advanced undergraduate-level textbook

Microbial Physiology: Unity and Diversity takes readers on a captivating journey through the intricate and often underappreciated world of microbial physiology, emphasizing both the common features that unify microbes and the diversity that makes them unique. In Part I: Unity, the book lays a strong foundation in the basics of microbial physiology. Delve into the three domains of life, get an intimate look at the metabolic pathways that fuel the microbial world, and take a deep

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Clinical Laboratory Management (3rd Edition)

Garcia

Clinical Laboratory Management, Third Edition, edited by an esteemed team of professionals under the guidance of editor-in-chief Lynne S. Garcia, is a comprehensive and essential reference for managing the complexities of the modern clinical laboratory. This newly updated and reorganized edition addresses the fast-changing landscape of laboratory management, presenting both foundational insights and innovative strategies.

Topics covered include:

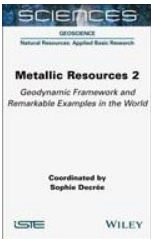
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Di Mauro



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