

Life & Earth Sciences

May to August 2020



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Table of Contents

Agriculture

Agricultural Economics & Resource Management	1
Agriculture & Ecology	1
Crops	6

Earth Science

Atmospheric Sciences	7
Geology & Geophysics	7

Environmental Studies

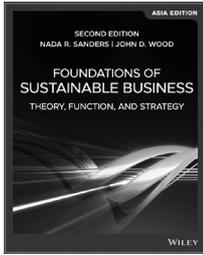
Environmental Science	8
-----------------------	---

Life Sciences

Cell & Molecular Biology	10
Ecology & Organismal Biology	10
General & Introductory Life Sciences	11
Genetics	11
Microbiology & Virology	11
Neuroscience	12
Plant Science	13



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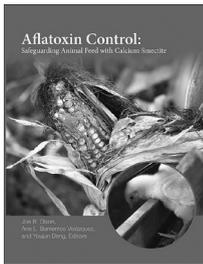
Sustainable Business

2nd Edition Asia Edition

Nada Sanders

The second edition of *Sustainable Business* prepares future business leaders to tackle the most crucial social and environmental issues of our time. This engaging textbook provides students with a comprehensive, balanced introduction to integrating sustainable business policies into all core business functions and processes. The text employs a qualitative-based learning process to help students understand how leadership, finance, accounting, risk management, marketing, supply chain management, and operations can be adapted to meet the sustainability goals of the 21st century.

Textbook • 9781119667414 • Dec 2019 • Paper • 352pp • US\$80.00



Aflatoxin Control

Safeguarding Animal Feed With Calcium Smectite

Joe Dixon, Ana L. Barrientos Velázquez & Youjun Deng

Aflatoxin contamination represents a serious threat to a healthy food supply. Resulting from mold on corn, peanuts, and other grains and grain products, aflatoxins are extremely toxic. Understanding the nature of fungi infection and the factors that favor aflatoxin formation is important to grain producers, dealers, and other professionals who control grain from the field to the site of consumption to prevent serious loss of large quantities of grain or grain products. Producers of poultry, cattle, sheep, pigs, and even pet food need to be aware of the threat of aflatoxin. Participants in the grain industry who grow, store, or process corn and other grains subject to potential infection by aflatoxin should be aware of the risks of fungal infection and aflatoxin contamination, and proper management strategies.

Reference • 9780891183419 • Jan 2020 • Paper • 80pp • US\$29.95



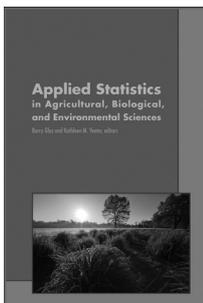
Animal Manure

Production, Characteristics, Environmental Concerns, and Management

Heidi Waldrip, Paulo H. Pagliari & Zhongqi He

Animal manure, when used according to best management practices, is considered one of the most economically profitable source of nutrients required for crop production. By recycling manure back to the land, farmers reduce the cost of purchased inorganic fertilizers for feed and forage production, while adding essential organic matter to the soil, which improves soil health via various mechanisms for long-term cropland productivity. The goal of this monograph is to address the environmental concerns of modern animal manure systems while simultaneously pinpointing areas where manure management can be improved. The overall objective is the production of a timely, comprehensive reference that is applicable and useful for the scientific community, regulatory agencies, environmental advocacy groups, and animal farm managers.

Reference • 9780891183709 • Jan 2020 • Paper • 448pp • US\$107.95

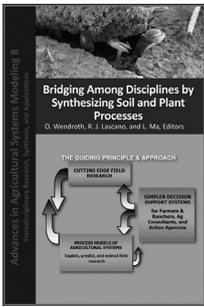


Applied Statistics in Agricultural, Biological, and Environmental Sciences

Barry Glaz & Kathleen M. Yeater

Better experimental design and statistical analysis make for more robust science. A thorough understanding of modern statistical methods can mean the difference between discovering and missing crucial results and conclusions in your research, and can shape the course of your entire research career. With *Applied Statistics*, Barry Glaz and Kathleen M. Yeater have worked with a team of expert authors to create a comprehensive text for graduate students and practicing scientists in the agricultural, biological, and environmental sciences. The contributors cover fundamental concepts and methodologies of experimental design and analysis, and also delve into advanced statistical topics, all explored by analyzing real agronomic data with practical and creative approaches using available software tools.

Reference • 9780891183594 • Jan 2020 • Cloth • 672pp • US\$179.95 • Print-on-demand

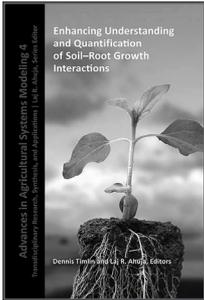


Bridging Among Disciplines by Synthesizing Soil and Plant Processes

Ole Wendroth, Robert J. Lascano & Liwang Ma

In the 8th book of Dr. Ahuja's innovative "Advances in Agricultural Systems Modeling" series, authors give a look into the future of climatesmart agricultural systems, emphasizing the integration of soil, weather, vegetation and management information to predict relevant agro-ecosystem processes. Expansion of data availability, improvement of sensors, and computational power have opened opportunities in modeling and exploration of management impact. Authors give a background on model development and explain soil, plant, and climate processes and their interactions that encompass the wide range of applications of simulation models to address challenges in managing our resources and complex agricultural systems.

Reference • 9780891183648 • Jan 2020 • Cloth • 304pp • US\$74.95 • Print-on-demand

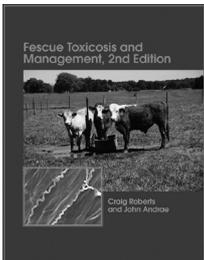


Enhancing Understanding and Quantification of Soil-Root Growth Interactions

Dennis Timlin & Lajpat R. Ahuja

Research progress in soil-root growth interactions has been slow due to the relative inaccessibility of roots in their natural environment and because root research cuts across the boundaries of soil science, ecology, crop science, and plant physiology, among others. *Enhancing Understanding and Quantification of Soil-Root Growth Interactions* takes on this challenge to solve society's growing problems in the conservation of quality water and soil resources. Researchers must come together and leverage our understanding of the rhizosphere to maximize efficient, sustainable use of limited water and soil nutrient resources. This is a serious calling—from addressing the critical needs in nations who cannot afford costly fertilizers, to the global challenge of enhancing soil carbon storage to reduce climate change effects of elevated carbon dioxide.

Reference • 9780891183389 • Jan 2020 • Cloth • 336pp • US\$79.95 • Print-on-demand



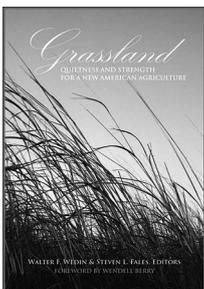
Fescue Toxicosis and Management

2nd Edition

C Roberts & John Andrae

Fescue toxicosis continues to be one of the most devastating problems in forage-livestock agriculture. Because there is presently no cure, using the most up-to-date management and prevention approaches are crucial. The 2nd edition of this important guide presents an easy-to-understand description of this complex problem, along with recommendations that are practical for real farm use.

Reference • 9780891186304 • Jan 2020 • Paper • 32pp • US\$15.95



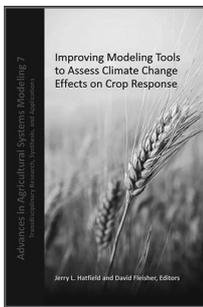
Grassland

Quietness and Strength for a New American Agriculture

Walter Wedin & Steven L. Fales

Grassland: Quietness and Strength for a New American Agriculture takes on the task of increasing our awareness of the vital role grass and grassland plants have in ensuring a sustainable future for America. Geared toward agriculturists, students, the public, and policy makers, *Grassland* aims to inspire and provide the reader the foundation needed to move into the future. As Wendell Berry so eloquently argues in the foreword to *Grassland*, "True farmers have minds that are complex and responsible.... They understand and honor their debts to nature. They understand and honor their obligations to neighbors and consumers. They understand and respect the land's need to be protected from washing.... In the time that is coming, we are going to need many more such farmers than we have, and we will need them much sooner than we can expect to get them. We will get them only to the extent that young people come along who are willing to fit their farming to the nature of their farms and their home landscapes, and who recognize the paramount importance of grass and grazing animals to good farming everywhere." This book will help that happen.

Reference • 9780891181712 • Jan 2020 • Cloth • 288pp • US\$79.95

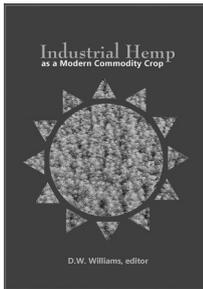


Improving Modeling Tools to Assess Climate Change Effects on Crop Response

J.L Hatfield, David Fleisher

Crop model intercomparison and improvement are required to advance understanding of the impact of future climate change on crop growth and yield. The initial efforts undertaken in the Agriculture Model Intercomparison and Improvement Project (AgMIP) led to several observations where crop models were not adequately simulating growth and development. These studies revealed where enhanced efforts should be undertaken in experimental data to quantify the carbon dioxide × temperature × water interactions in plant growth and yield. International leaders in this area held a symposium at the 2013 ASA, CSSA, and SSSA Annual Meeting to discuss this topic. This volume in the Advances in Agricultural Systems Modeling series presents experimental observations across crops and simulation modeling outcomes and addresses future challenges in improving crop simulation models.

Reference • 9780891183518 • Jan 2020 • Cloth • 240pp • US\$89.95 • Print-on-demand

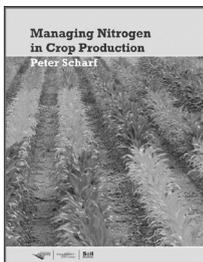


Industrial Hemp as a Modern Commodity Crop, 2019

David Williams

Industrial Hemp as a Modern Commodity Crop, 2019 provides an overview of industrial hemp as an agronomic crop in western cropping systems. Emphasis is given to the long history of hemp, mostly in the United States, and to current production issues pertinent in the US as well as Europe and Canada. There are many questions still to be answered – starting with those to be addressed by the most basic classical plant breeding techniques and continuing to the most modern analytical techniques of plant tissues and genetics.

Reference • 9780891186328 • Jan 2020 • Paper • 144pp • US\$44.95

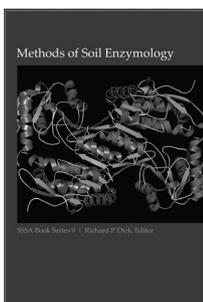


Managing Nitrogen for Crop Production

Peter Scharf

Among crop nutrients, nitrogen has the most complex chemistry and behavior in soil, gives the largest yield responses, and is the most difficult to manage. *Managing Nitrogen in Crop Production* condenses the latest research and thinking from leading experts in nitrogen. The result will increase your understanding of nitrogen and your odds of managing it successfully.

Reference • 9780891186236 • Jan 2020 • Paper • 80pp • US\$29.95 • Print-on-demand

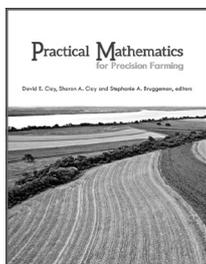


Methods of Soil Enzymology

Richard Dick

Methods of Soil Enzymology provides the first comprehensive set of vetted methods for studying enzymes in soils. Readers will especially benefit from the step-by-step explanation of the lab procedures, as well as background information for using these methods effectively and analyzing data. Main topics include activity assays, enzyme extraction, and synthetic enzyme complexes. Each method covered includes background information, step-by-step descriptions of the procedure, and special comments regarding nuances, pitfalls, and interpretation of the method. Learn the latest research methods, including enzyme extraction methods and procedures for creating synthetic enzyme complexes, as well as the newest ways to use small-scale and high-throughput methods for enzyme activity assays.

Reference • 9780891188544 • Jan 2020 • Cloth • 416pp • US\$119.95 • Print-on-demand

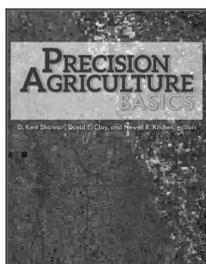


Practical Mathematics for Precision Farming

D.E. Clay, Sharon A. Clay & Stephanie A. Bruggeman

As the public and producers becomes more aware of the environmental and economic benefits of precision farming, there has been increased demand for quality training to accurately evaluate spatial variability within fields. *Practical Mathematics in Precision Farming* provides hand-on training and examples for certified crop consultants (CCAs), farmers, crop consultants, and students (both undergraduate and graduate) on how to conduct to conduct and analyze on-farm studies, write simple programs, use precision techniques to scout for pests and collect soil samples, develop management zones, determine the cost of production, assess the environmental consequences of precision techniques, understand soil test results, and develop site-specific nutrient and plant population algorithms. Using real agronomic examples, the reader is taught the crucial task of managing products and inputs for application at the right rate, place, and time.

Reference • 9780891183617 • Jan 2020 • Cloth • 272pp • US\$79.95

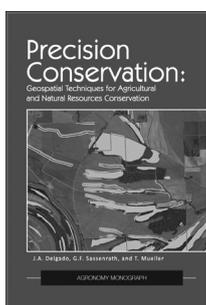


Precision Agriculture Basics

DK Shannon, David E. Clay & Newell R. Kitchen

With the growing popularity and availability of precision equipment, farmers and producers have access to more data than ever before. With proper implementation, precision agriculture management can improve profitability and sustainability of production. *Precision Agriculture Basics* is geared at students, crop consultants, farmers, extension workers, and practitioners that are interested in practical applications of site-specific agricultural management. Using a multidisciplinary approach, readers are taught to make data-driven on-farm decisions using the most current knowledge and tools in crop science, agricultural engineering, and geostatistics. *Precision Agriculture Basics* also features a stunning video glossary including interviews with agronomists on the job and in the field.

Reference • 9780891183662 • Jan 2020 • Paper • 272pp • US\$89.95 • Print-on-demand

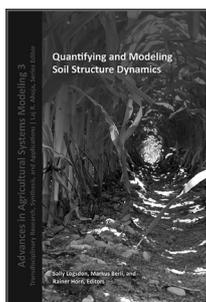


Precision Conservation

J.A. Delgado, Gretchen F. Sassenrath & Tom Mueller

Precision conservation is a reality, and we are moving towards improved effectiveness of conservation practices by accounting for temporal and spatial variability within and off field. This is the first book to cover the application of the principles of precision conservation to target conservation practices across fields and watersheds. It has clearly been established that the 21st century will present enormous challenges, from increased yield demands to climate change. Without improved conservation practices it will not be possible to ensure food security and conservation effectiveness. Readers will appreciate the application of the precision conservation concept to increase conservation effectiveness in a variety of contexts, with a focus on recent advances in technology, methods, and improved results.

Reference • 9780891183556 • Jan 2020 • Paper • 400pp • US\$99.95

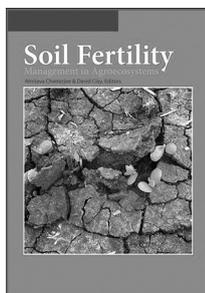


Quantifying and Modeling Soil Structure Dynamics

Sally Logsdon, Markus Berli & Rainer Horn

Quantifying and Modeling Soil Structure Dynamics emphasizes a systems approach to how soil structure changes in response to inputs and to the environment. Soil structure is a dynamic, complex system affected by tillage, wheel traffic, roots, soil life, shrink–swell, and freeze–thaw. In turn, soil structure affects root growth and function, soil fauna, solute transport, water infiltration, gas exchange, thermal and electrical conductivities, traffic bearing capacity, and more. Ignoring soil structure or viewing it as “static” can lead to poor predictions and management. Readers will especially appreciate the description of soil structure influence on endpoints, such as environmental contamination and efficient water use, and how models should be adjusted to include dynamic soil structure components for accurate outputs.

Reference • 9780891189565 • Jan 2020 • Cloth • 208pp • US\$69.95 • Print-on-demand

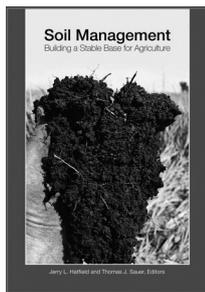


Soil Fertility Management in Agroecosystems

Amitava Chatterjee & David E. Clay

In *Soil Fertility Management in Agroecosystems*, Editors Amitava Chatterjee and David Clay provide a thoughtful survey of important concepts in soil fertility management. For the requirements of our future workforce, it is imperative that we evolve our understanding of soil fertility. Agronomists and soil scientists are increasingly challenged by extreme climatic conditions. Farmers are experimenting with integrating cover crops into rotations and reducing the use of chemical fertilizers. In other words, there is no such a thing as a simple fertilizer recommendation in today's agriculture. Topics covered include crop-specific nutrient management, program assessment, crop models for decision making, optimization of fertilizer use, cover crops, reducing nitrous oxide emissions, natural abundance techniques, tile-drained conditions, and soil biological fertility.

Reference • 9780891183532 • Jan 2020 • Cloth • 160pp • US\$29.95



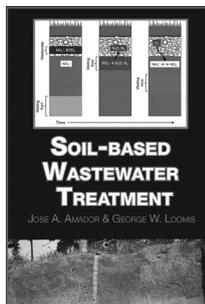
Soil Management

Building a Stable Base for Agriculture

Jerry Hatfield & Thomas J. Sauer

Degradation of soils continues at a pace that will eventually create a local, regional, or even global crisis when diminished soil resources collide with increasing climate variation. It's not too late to restore our soils to a more productive state by rediscovering the value of soil management, building on our well-established and ever-expanding scientific understanding of soils. Soil management concepts have been in place since the cultivation of crops, but we need to rediscover the principles that are linked together in effective soil management. This book is unique because of its treatment of soil management based on principles—the physical, chemical, and biological processes and how together they form the foundation for soil management processes that range from tillage to nutrient management.

Reference • 9780891188537 • Jan 2020 • Cloth • 432pp • US\$99.95

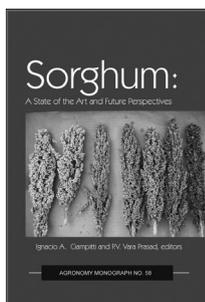


Soil-Based Wastewater Treatment

J Amador & George Loomis

Our book addresses the needs of practitioners, engineers, scientists, regulators, resource managers, planners, and others with a need to know about septic systems. It arose after discussions about the need for a text that integrated current understanding of the hydrologic, physical, chemical, and biological processes involved in the treatment of wastewater using soil. In our experience, people working with septic systems – ourselves included – have a fragmented understanding of what these systems are, how they function, how wastewater moves through soil, how and which pollutants are removed, and how these systems impact the environment and public health. The relevant information is scattered across disciplines, information sources and audiences. This book is an attempt to collect and integrate this information in one place, and provide a scientific framework for understanding soil-based wastewater treatment.

Reference • 9780891189688 • Jan 2020 • Cloth • 368pp • US\$89.95



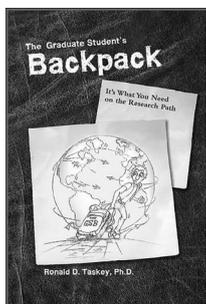
Sorghum

State of The Art and Future Perspectives

Ignacio Ciampitti, P. V. Vara Prasad

Sorghum is among the top five cereals and one of the key crops in global food security efforts. Sorghum is a resilient crop under high-stress environments, ensuring productivity and access to food when other crops fail. Scientists see the potential of sorghum as a main staple food in a future challenged by climate change. The contributors provide a comprehensive review of sorghum knowledge. The discussion covers genetic improvements, development of new hybrids, biotechnology, and physiological modifications. Production topics include water and nutrient management, rotations, and pest control. Final end uses, sorghum as a bioenergy crop, markets, and the future of sorghum are presented.

Reference • 9780891186274 • Jan 2020 • Cloth • 528pp • US\$119.95 • Print-on-demand



The Graduate Student's Backpack

It's What You Need on The Research Path

Ronald Taskey

The new graduate student must select a graduate committee, plan course work, find an original research topic, and design a research plan that ultimately leads to a defensible thesis or series of publishable research articles. Whether a graduate student plans a research career or not, he or she typically must complete an original, independent, analytical study, even though few beginning students know how or where to begin. A little help would be good, right? This process-oriented manual holds the fundamentals students in the sciences need to trek the graduate school path—it is their “backpack.” Open it and see what it can do for you.

Reference • 9780891183341 • Jan 2020 • Paper • 208pp • US\$29.95



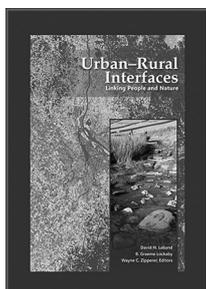
Turfgrass

Biology, Use, and Management

John Stier, Brian P. Horgan & Stacy A. Bonos

Sustainability is a key framework for analyzing biological systems—and turfgrass is no exception. It is part of a complex that encompasses turfgrass interactions with different environments and the suitability of different turfgrasses for specific environments. In addition to its biological role, turfgrass—in the form of lawns, green spaces, and playing surfaces—brings beneficial sociological effects to an increasingly urbanized society. This book presents a comprehensive overview of current knowledge and issues in the field of turfgrass research and management, including the genetics and breeding, the diseases and pests, and the ecology of turfgrasses, and will appeal to a broad spectrum of readers.

Reference • 9780891186137 • Jan 2020 • Cloth • 1344pp • US\$209.95



Urban-Rural Interfaces

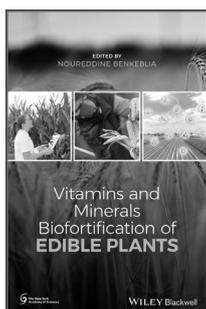
Linking People and Nature

David Laband, B. Graeme Lockaby & Wayne C. Zipperer

What is the urban–rural interface? Is it a visual phenomenon, a place where country gives way to neighborhoods and shopping areas in a startling way? Is it a simple factor of population density? There is nothing simple about the urban–rural interface—editors David Laband, Graeme Lockaby, and Wayne Zipperer present the broad spectrum of interdisciplinary complexities at play. Organized into three sections on changing ecosystems, changing human dimensions, and the dynamic integration of human and natural systems, this book is a must read for anyone who works in the real world, where natural and human systems are joined. This is the new sustainability science, an emerging discipline that integrates social and economic values with the physical, chemical, and ecological functions of ecosystems. The goal is optimal management, since our human impact is often significant and far-reaching in both space and time.

Reference • 9780891186151 • Jan 2020 • Cloth • 352pp • US\$114.95

CROPS



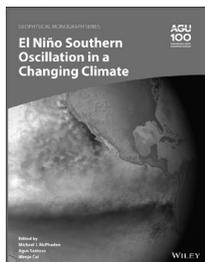
Vitamins and Minerals Bio-Fortification of Edible Plants

Noureddine Benkeblia

A detailed reference on how modern biotechnology and omics technologies can be used to improve the vitamin and mineral content of edible plants. In *Vitamins and Minerals Bio-Fortification of Edible Plants*, authors cover new territory on phytonutrients, focusing on the enhancement and modification of edible crops. This book presents techniques and research findings from modern biotechnology to educate readers on the newest tools and research in the field. Readers will learn how groundbreaking scientific advances have contributed to the nutritional content of edible plants and crops for animals and humans.

Reference • 9781119511113 • Apr 2020 • Cloth • 256pp • US\$200.00

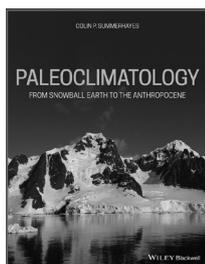
ATMOSPHERIC SCIENCES

**El Niño Southern Oscillation in A Changing Climate**

Agus Santoso, Michael J. McPhaden & Wenju Cai

The El Niño Southern Oscillation (ENSO) in the Pacific Ocean has major worldwide social and economic consequences through its global scale effects on atmospheric and oceanic circulation, marine and terrestrial ecosystems, and other natural systems. Ongoing climate change is projected to significantly alter ENSO's dynamics and impacts. *El Niño Southern Oscillation in a Changing Climate* presents the latest theories, models, and observations, and explores the challenges of forecasting ENSO as the climate continues to change.

Reference • 9781119548126 • Aug 2020 • Cloth • 528pp • US\$TBA

**Paleoclimatology**

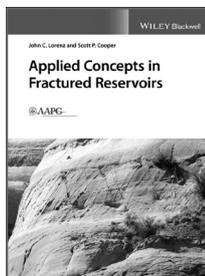
From Snowball Earth to The Anthropocene

Colin Summerhayes

Paleoclimatology describes Earth's passage through the greenhouse and icehouse worlds of the past 800 million years, including the glaciations of Snowball Earth in a world that was then free of land plants. It describes the operation of the Earth's thermostat, which keeps the planet fit for life, and its control by interactions between greenhouse gases, land plants, chemical weathering, continental motions, volcanic activity, orbital change and solar variability. It explains how we arrived at our current understanding of the climate system, by reviewing the contributions of scientists since the mid-1700s, showing how their ideas were modified as science progressed. And it includes reflections based on the author's involvement in palaeoclimatic research.

Reference • 9781119591382 • Aug 2020 • Paper • 400pp • US\$85.00

GEOLOGY & GEOPHYSICS

**Applied Concepts in Fractured Reservoirs**

John Lorenz & Scott P. Cooper

Authored by renowned experts in the field, this book covers the understanding, evaluation, and effects of fractures in reservoirs. It offers a comprehensive yet practical discussion and description of natural fractures, their origins, characteristics, and effects on hydrocarbon reservoirs. It starts by introducing the reader to basic definitions and classifications of fractures and fractured reservoirs. It then provides an outline for fractured-reservoir characterization and analysis, and goes on to introduce the way fractures impact operational activities. *Applied Concepts in Fractured Reservoirs* is an invaluable reference for geologists and engineers who need to understand naturally fractured reservoirs in order to efficiently extract hydrocarbons.

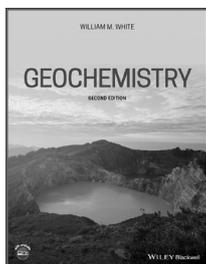
Reference • 9781119055860 • Jan 2020 • Cloth • 240pp • US\$130.00

**Applied Multidimensional Geological Modeling**

A. Keith Turner, Michiel Van der Meulen & Holger Kessler

Over the past decades, geological survey organizations have digitized their data handling and holdings, unlocking vast amounts of data and information for computer processing. They have undertaken 3-D modeling alongside, and in some cases instead of, conventional geological mapping and begun delivering both data and interpretations to increasingly diverse stakeholder communities. *Applied Multidimensional Geological Modeling* focuses on applications related to human interactions with conditions in the shallow subsurface, within 100-200 m of the surface. The 26 chapters, developed by 100 contributors associated with 37 organizations, discuss topics relevant to any geologist, scientist, engineer, urban planner, or decision maker whose practice includes assessment or planning of underground space.

Reference • 9781119163121 • Apr 2020 • Cloth • 450pp • US\$97.95



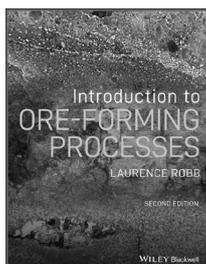
Geochemistry

2nd Edition

William White

A Comprehensive Introduction to the "Geochemist Toolbox" – the Basic Principles of Modern Geochemistry. In the new edition of William M. White's *Geochemistry*, undergraduate and graduate students will find each of the core principles of geochemistry covered. From defining key principles and methods to examining Earth's core composition and exploring organic chemistry and fossil fuels, this definitive edition encompasses all the information needed for a solid foundation in the earth sciences for beginners and beyond.

Reference • 9781119438052 • Jun 2020 • Paper • 750pp • US\$84.95 • Previous ed: 9780470656686



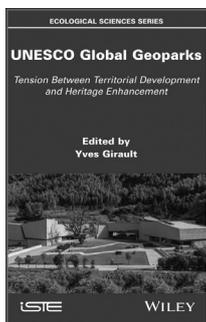
Introduction to Ore-Forming Processes

2nd Edition

Laurence Robb

The revised edition of *Introduction to Ore-Forming Processes* offers a guide to the multiplicity of geological processes that result in the formation of mineral deposits. This second edition contains new information about global tectonic processes and crustal evolution that continues to influence the practice of economic geology and maintains the supply of natural resources in a responsible and sustainable way. The replenishment of depleted natural resources is becoming more difficult and environmentally challenging. There is also a change in the demand for mineral commodities and the concern around the non-sustainable supply of 'critical metals' is now an important consideration for planners of the future.

Reference • 9781119967507 • Apr 2020 • Paper • 496pp • US\$70.00 • Previous ed: 9780632063789



Unesco Global Geoparks

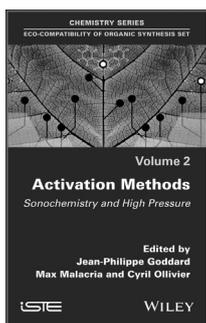
Tension Between Territorial Development and Heritage Enhancement

Yves Girault

Recently, UNESCO has gradually started to recognize world geoparks - territorial spaces with a geological heritage of international importance. This classification presents real challenges. Development strategies must align with the recommendations advocated by various non-governmental organizations, and involve the local actors, both in the preparation of application forms and in the implementation of a management plan that is suitable for sustainable global development. Managing the tensions and asymmetries between the different groups of actors (politicians, managers, scientists, local populations) constitutes another major issue. It is in this context and through various case studies that this book questions the aims of the UNESCO global geoparks - in terms of heritage inventory and conservation, the participation of local populations, the local development of a territory and its enhancement through heritage interpretation.

Reference • 9781786304858 • Oct 2019 • Cloth • 278pp • US\$144.95

ENVIRONMENTAL SCIENCE



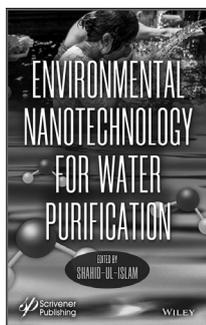
Activation Methods

Sonochemistry and High Pressure

Jean-Philippe Goddard, Max Malacria & Cyril Ollivier

Activation Methods examines recent improvements in the utilization of ultrasonic waves and pressurized gases to generate reactions. A straightforward method to use, sonochemistry allows chemical reactions to be carried out under ultrasound without the need for external heat, reagents or catalysts – leading to high yields and the production of a minimum amount of waste. This book presents an overview of the main applications of sonochemistry in green organic chemistry, with an emphasis on texts published within the last few years. High-pressure chemical reactions offer innovative solutions to problems relating to synthesis. They allow access to new products and a further understanding of reaction mechanisms.

Reference • 9781786305107 • Feb 2020 • Cloth • 166pp • US\$119.95

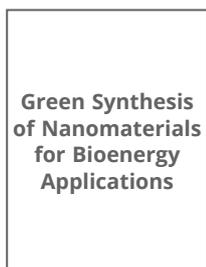


Environmental Nanotechnology for Water Purification

Shahid Ul-Islam

Dyes, pigments and metals are extensively used in food, paper, carpet, rubber, plastics, cosmetics, and textile industries, in order to color and finish products. As a result, they generate a considerable amount of coloured wastewater rich in organic, inorganic, and mineral substances which are continuously polluting the water bodies and affecting human and aquatic life. Currently a number of methods are in operation to decontaminate the polluted waters. Among several purification technologies, use of nanoparticles/composites have gained much attention as efficient purification technology due to its many advantages. *Environmental Nanotechnology for Water Purification* comprehensively covers research and provides new insights on all nanoparticles, composites and advanced methods employed in water purification.

Reference • 9781119640455 • Apr 2020 • Cloth • 450pp • US\$224.95

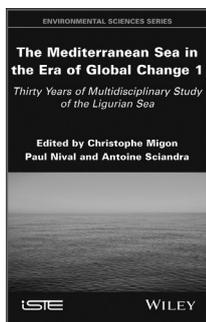


Green Synthesis of Nanomaterials for Bioenergy Applications

Neha Srivastava, Manish Srivastava, P. K. Mishra & Vijai Kumar Gupta

Green Synthesis of Nanomaterials for Bioenergy Applications is an important guide for researchers, academics and students of nanotechnology, nanosciences, bioenergy, material science, environmental sciences, and pollution control. It provides information on the fabrication of nanomaterial and the application of low cost, green methods. The book also explores the impact on various existing bioenergy approaches. Throughout the book, the contributors-noted experts on the topic-offer a reliable summary of the quest for an environmentally sustainable synthesis process of nanomaterials and their application to the field of environmental sustainability.

Reference • 9781119576815 • Aug 2020 • Cloth • 304pp • US\$TBA



The Mediterranean Sea in The Era of Global Change 1

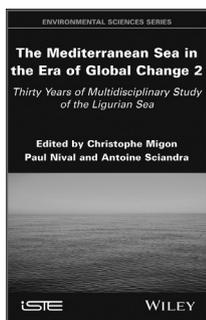
30 Years of Multidisciplinary Study of The Ligurian Sea

Christophe Migon, Paul Nival & Antoine Sciandra

Due to its particular characteristics, the Mediterranean Sea is often viewed as a microcosm of the World Ocean. Its proportionally-reduced dimensions and peculiar hydrological circulation render it susceptible to environmental and climatic constraints, which are rapidly evolving. The Mediterranean is therefore an ideal site to examine, in order to better understand a number of key oceanographic phenomena. This is especially true of the Ligurian Sea where, due to its geology, oceanic conditions are found close to the coast.

As such, 30 years ago, an offshore time-series site provided a fresh impetus to a long history of marine biology research, which has generated a very important body of data and knowledge. This is the first volume, in a two-volume series, that summarizes this research.

Reference • 9781786304285 • Mar 2020 • Cloth • 240pp • US\$134.95



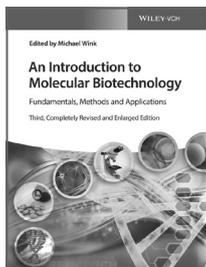
The Mediterranean Sea in The Era of Global Change 2

30 Years of Multidisciplinary Study of The Ligurian Sea

Christophe Migon, Paul Nival, Antoine Sciandra

This is the second volume, in a two-volume series, that summarizes this research. Across these two books, the reader will find 13 chapters that examine the geology, physics, chemistry and biology of the Ligurian Sea – always with the goal of providing key elements of oceanography in a changing world.

Reference • 9781786305862 • Mar 2020 • Cloth • 260pp • US\$144.95



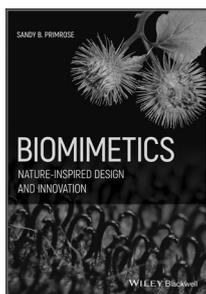
An Introduction to Molecular Biotechnology

Fundamentals, Methods and Applications, 3rd Edition

Michael Wink

Completely updated in line with the rapid progress made in the field, this new edition of the highly-praised textbook addresses powerful new methods and concepts in biotechnology, such as genome editing, reprogrammed stem cells, and personalized medicine. It covers fundamentals, techniques and key applications from an industrial perspective, and an entire portion dedicated to insights into the burgeoning biotech industry. The contents are beautifully illustrated throughout, with hundreds of full color diagrams and photographs. Provides students and professionals in life sciences, pharmacy and biochemistry with everything they need to know about molecular biotechnology.

Reference • 9783527344147 • Aug 2020 • Paper • 566pp • US\$102.23 • Previous ed: 9783527326372



Biomimetics

Nature-Inspired Design and Innovation

Sandy Primrose

This book covers the field of biomimicry, an area of science where researchers look to mimic aspects of plants or animals in order to solve problems in aerospace, shipping, building, electronics, and optics, among others. It presents the latest developments in biomimicry and gives readers sufficient grounding to help them understand the current, and sometimes technically complex, research literature. Different themes are covered throughout and text boxes deal with the relevant physics for readers who may lack this knowledge.

Biomimetics: Nature-Inspired Design and Innovation is an excellent book for senior undergraduates and post-graduate students in the life sciences, material sciences, and bioengineering. It will also appeal to lay readers with an interest in nature as well as scientists in general.

Reference • 9781119683322 • Aug 2020 • Cloth • 128pp • US\$90.00

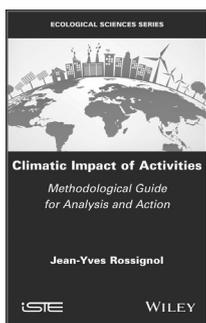


Encyclopedia of Marine Biotechnology

Se-Kwon Kim

Featuring contributions from 100 international experts in the field, this five-volume encyclopedia provides comprehensive coverage of topics in marine biotechnology. Each topic in the encyclopedia is followed by 10-30 subtopics. It starts with the history of the field and delivers a complete overview of marine biotechnology. It then offers information on marine organisms, bioprocess techniques, marine natural products, biomaterials, bioenergy, and algal biotechnology. The encyclopedia also covers marine food and biotechnology applications in areas such as pharmaceuticals, cosmeceuticals, and nutraceuticals. This a must-have resource for researchers, scientists, and marine biologists in the industry, as well as for students at the postgraduate and graduate level. It will also benefit companies focusing on marine biotechnology, pharmaceutical and biotechnology, and bioenergy. Editor Professor Se-Kwon Kim is Distinguished Professor, Department of Marine-Bio. Convergence Science, and Director, Marine Bioprocess Research Center, Pukyong National University, South Korea.

Reference • 9781119143772 • Jul 2020 • Cloth • 3248pp • US\$950.00



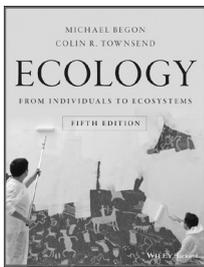
Climatic Impact of Activities

Methodological Guide for analysis and Action

Jean-Yves Rossignol

Climatic Impact of Activities provides valuable methodological and practical support for establishing a complete and reliable diagnosis of the greenhouse effect, and for planning the corresponding corrective actions. This book guides the reader step by step in developing an informed emissions assessment with realistic and advanced case studies, in full compliance with official methodological recommendations.

Reference • 9781786305121 • Feb 2020 • Cloth • 240pp • US\$134.95



Ecology

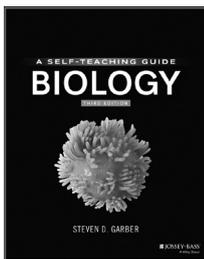
From Individuals to Ecosystems, 5th Edition

Michael Begon & Colin R. Townsend

The previous editions of this book earned the authors the prestigious 'Exceptional Life-time Achievement Award' of the British Ecological Society – the aim for the fifth edition is not only to maintain standards but indeed to enhance its coverage of Ecology. The revised and updated fifth edition of *Ecology: From Individuals to Ecosystems* – now in full colour – offers students and practitioners a review of the ecological sciences. The definitive textbook provides depth and breadth across the ecological sciences, detailing the levels of ecological organization and management in individuals, the population, whole communities and ecosystems.

Reference • 9781119279358 • Aug 2020 • Paper • 912pp • US\$71.95 • Previous ed: 9781405111171

GENERAL & INTRODUCTORY LIFE SCIENCES



Biology

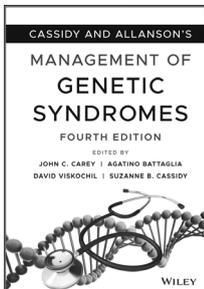
A Self-Teaching Guide, 3rd Edition

Steve Garber

The latest edition has been updated of *Biology: A Teaching Guide* includes the most up-to-date information on everything from photosynthesis to physiology, and with self-teaching practice exams and questions. For students preparing for exams or individuals who want to review material from years past, the step-by-step format is designed to help students and teachers alike easily understand complex concepts, key terms, and frequently asked questions. The guide includes a comprehensive glossary and self-test questions in each chapter, allowing students to reinforce their knowledge and better understand the concepts.

Trade • 9781119645023 • Jul 2020 • Paper • 432pp • US\$24.95 • Previous ed: 9780471223306

GENETICS



Cassidy and Allanson's Management of Genetic Syndromes

4th Edition

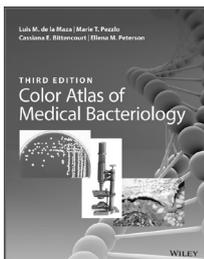
John Carey, Suzanne B. Cassidy, Agatino Battaglia & David Viskochil

This fourth edition of the book *Cassidy's and Allanson's Management of Genetic Syndromes* will be unchanged in character but will be current in its content. It will include updated information on identification (including newly-developed diagnostic criteria), genetic basis and diagnostic testing, and management for each of the 59 included disorders. The aim of this book remains to provide a resource on diagnosis, genetic counseling and management for medical professionals (medical geneticists, genetic counselors, and primary care providers) caring for individuals of all ages affected by relatively common genetic syndromes. It will continue to exclude traditional metabolic disorders, which are well-covered in other resources. In addition, there will be an increase in the number of disorders slightly to approximately 60 as a result of new expertise, newly recognized conditions, and conditions whose frequency has recently been recognized to be higher than previously realized.

Reference • 9781119432678 • Aug 2020 • Cloth • 1518pp • US\$249.95 • Previous ed: 9780470191415



MICROBIOLOGY & VIROLOGY



Color Atlas of Medical Bacteriology

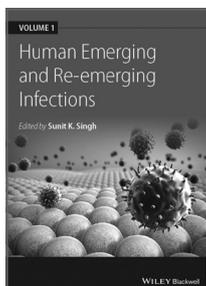
3rd Edition

Luis de la Maza, Marie T. Pezzlo, Cassiana E. Bittencourt & Ellena M. Peterson

Conceived by a team of authors with decades of classroom and laboratory experience, the *Color Atlas of Medical Bacteriology* includes more than 730 brilliant, four-color images of common pathogenic bacteria and descriptions of the methods used to identify them, including microscopic and phenotypic characteristics, colonial morphology, and biochemical properties. Each chapter, organized by pathogen and taxonomic group, begins with a brief introduction that provides a contextual framework for the images. This second edition embraces the latest developments in molecular biology methodology in the diagnostic laboratory with a new chapter examining the breadth and possibilities of these new techniques. Also, in light of the alarming emergence of antibiotic resistance, antimicrobial susceptibility testing is addressed in another new chapter. A valuable illustrative supplement for lectures and laboratory presentations, this easy-to-use atlas was written for laboratorians, clinicians, students, and anyone interested in the field of diagnostic medical bacteriology.

Reference • 9781683670353 • Jun 2020 • Cloth • 464pp • US\$199.95



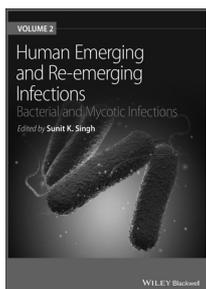


Human Emerging and Re-emerging Infections Volume 1

Sunit Singh

Emerging and re-emerging pathogens pose several challenges to diagnosis, treatment, and public health surveillance, primarily because pathogen identification is a difficult and time-consuming process due to the "novel" nature of the agent. Proper identification requires a wide array of techniques, but the significance of these diagnostics is anticipated to increase with advances in newer molecular and nanobiotechnological interventions and health information technology. *Human Emerging and Re-emerging Infections* covers the epidemiology, pathogenesis, diagnostics, clinical features, and public health risks posed by new viral and microbial infections. The first of two volumes addresses viral and parasitic infections.

Reference • 9781119074380 • Dec 2019 • Cloth • 560pp • US\$224.95

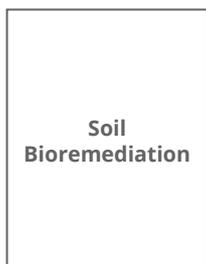


Human Emerging and Re-emerging Infections Volume 2

Sunit Singh

Human Emerging and Re-emerging Infections covers the epidemiology, pathogenesis, diagnostics, clinical features, and public health risks posed by new viral and microbial infections. The book includes detailed coverage on the molecular mechanisms of pathogenesis, development of various diagnostic tools, diagnostic assays and their limitations, key research priorities, and new technologies in infection diagnostics. Volume 2 delves into bacterial and mycotic infections. *Human Emerging and Re-emerging Infections* is an invaluable resource for researchers in parasitologists, microbiology, Immunology, neurology and virology, as well as clinicians and students interested in understanding the current knowledge and future directions of infectious diseases.

Reference • 9781119074489 • Dec 2019 • Cloth • 512pp • US\$224.95



Soil Bioremediation

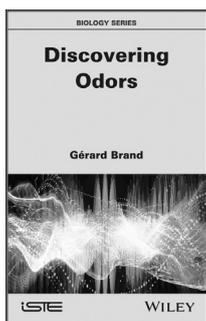
An Approach Towards Sustainable Technology

Javid Parrray, Reyaz Sayyed & Elsayed Abdallah

This book will discuss the effective and sustainable technological approaches for remediation of contaminates via eco-friendly usage of microbes. The primary focus will be on the role of microbes, particularly bacteria and fungi, for the degradation and removal of various xenobiotic substances in the environment. The book will also emphasize molecular approaches and biosynthetic pathways of microbes, and present gene and protein expression studies for bio-deterioration techniques. New innovative and sophisticated green technologies for waste minimization and waste control will be presented, as well as the potential of microbes for various techniques of bioremediation, including bio-sorption, bio-augmentation, bio-stimulation, to clean contaminated environments.

Reference • 9781119547952 • Aug 2020 • Cloth • 480pp • US\$199.99

NEUROSCIENCE

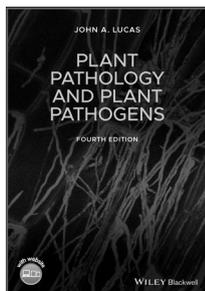


Discovering Odors

Gérard Brand

Often taken for granted, the sense of smell has seldom been discussed or understood. However, since the start of the 20th Century, studies in this area have grown exponentially and today there is a greater understanding of the olfactory system – at both structural and functional levels. Scientists now concern themselves with questions about the holistic nature of our sense of smell and are investigating the role of odors in interpersonal relations, in food intake processes, in the diagnosis of certain illnesses, and many other areas. The beginnings of this knowledge are as fascinating as they are abundant and numerous disciplines are involved: psychology, physiology, genetics, neuroscience, engineering, etc. This book illustrates and analyzes the current state of advances in research about the smells around us, and the way in which they influence our relationship with the world.

Reference • 9781786305213 • Feb 2020 • Cloth • 236pp • US\$134.95



Plant Pathology and Plant Pathogens

4th Edition

John Lucas

The impact of plant disease is far-reaching. Its effects are felt not only in the spheres of agriculture and horticulture, but also in human health and wellbeing. The challenges of population growth, climate change and global food security all increase the need to protect crops from disease and reduce the losses caused by plant pathogens. Striking a balance between laboratory- and field-based aspects of its subject, this revised fourth edition of the text places plant disease in a wide biological context. Its contents cover causal agents and diagnosis, host-pathogen interactions, and disease management, including breeding for resistance, chemical, biological and integrated control. New to this edition are updated sections on molecular epidemiology, biosecurity, pathogenomics, and the biotechnological advances that are helping scientists make great strides in the fight against plant disease.

Reference • 9781118893869 • May 2020 • Paper • 384pp • US\$54.95



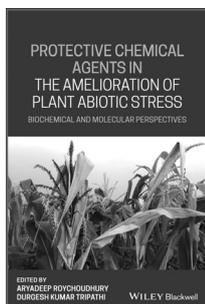
Principles of Plant Genetics and Breeding

3rd Edition

George Acquaah

Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders, marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices. Substantial updates have been made to its molecular genetics and breeding sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding, genome editing, and others.

Reference • 9781119626329 • Jul 2020 • Paper • 775pp • US\$99.99 • Previous ed: 9780470664766



Protective Chemical Agents in The Amelioration of Plant Abiotic Stress

Biochemical and Molecular Perspectives

Aryadeep Roychoudhury & Durgesh Kumar Tripathi

Protective Chemical Agents in the Amelioration of Plant Abiotic Stress offers a guide to the diverse chemical agents that have the potential to mitigate different forms of abiotic stresses in plants. Edited by two experts on the topic, the book explores the role of novel chemicals and shows how using such unique chemical agents can tackle the oxidative damages caused by environmental stresses.

Written for researchers, academicians, and scientists, this reference details the wide range of protective chemical agents, their applications, and their intricate biochemical and molecular mechanism of action within the plant systems during adverse situations.

Reference • 9781119551638 • May 2020 • Cloth • 576pp • US\$225.00

Earth & Environmental Sciences

May to August 2020 New Titles

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
Activation Methods: Sonochemistry and High Pressure	Goddard, Malacria, Ollivier	9781786305107	8	Cloth	119.95	
Aflatoxin Control: Safeguarding Animal Feed With Calcium Smectite	Dixon, Velázquez, Deng	9780891183419	1	Paper	29.95	
An Introduction to Molecular Biotechnology: Fundamentals, Methods and Applications, 3rd Edition	Wink	9783527344147	10	Paper	102.23	
Animal Manure: Production, Characteristics, Environmental Concerns, and Management	Waldrip, Pagliari, He	9780891183709	1	Paper	107.95	
Applied Concepts in Fractured Reservoirs	Lorenz, Cooper	9781119055860	7	Cloth	130.00	
Applied Multidimensional Geological Modeling	Turner, Van der Meulen, Kessler	9781119163121	7	Cloth	97.95	
Applied Statistics in Agricultural, Biological, and Environmental Sciences	Glaz, Yeater	9780891183594	1	Cloth	179.95	
Biology: A Self-Teaching Guide, 3rd Edition	Garber	9781119645023	11	Paper	24.95	
Biomimetics: Nature-Inspired Design and Innovation	Primrose	9781119683322	10	Cloth	90.00	
Bridging Among Disciplines by Synthesizing Soil and Plant Processes	Wendroth, Lascano, Ma	9780891183648	2	Cloth	74.95	
Cassidy and Allanson's Management of Genetic Syndromes, 4th Edition	Carey, Cassidy, Battaglia, Viskochil	9781119432678	11	Cloth	249.95	
Climatic Impact of Activities: Methodological Guide for analysis and Action	Rosignol	9781786305121	10	Cloth	134.95	
Color Atlas of Medical Bacteriology, 3rd Edition	de la Maza, Pezzlo, Bittencourt, Peterson	9781683670353	11	Cloth	199.95	
Discovering Odors	Brand	9781786305213	12	Cloth	134.95	
Ecology: From Individuals to Ecosystems, 5th Edition	Begon, Townsend	9781119279358	11	Paper	71.95	
EL Niño Southern Oscillation in A Changing Climate	Santoso, McPhaden, Cai	9781119548126	7	Cloth	TBA	
Encyclopedia of Marine Biotechnology	Kim	9781119143772	10	Cloth	950.00	
Enhancing Understanding and Quantification of Soil-Root Growth Interactions	Timlin, Ahuja	9780891183389	2	Cloth	79.95	
Environmental Nanotechnology for Water Purification	Ul-Islam	9781119640455	9	Cloth	224.95	
Fescue Toxicosis and Management: 2nd Edition	Roberts, Andrae	9780891186304	2	Paper	15.95	
Geochemistry, 2nd Edition	White	9781119438052	8	Paper	84.95	
Grassland: Quietness and Strength for a New American Agriculture	Wedin, Fales	9780891181712	2	Cloth	79.95	
Green Synthesis of Nanomaterials for Bioenergy Applications	Srivastava, Srivastava, Mishra, Gupta	9781119576815	9	Cloth	TBA	
Human Emerging and Re-Emerging Infections Volume 1	Singh	9781119074380	12	Cloth	224.95	
Human Emerging and Re-Emerging Infections Volume 2	Singh	9781119074489	12	Cloth	224.95	
Improving Modeling Tools to Assess Climate Change Effects on Crop Response	Hatfield, Fleisher	9780891183518	3	Cloth	89.95	
Industrial Hemp as A Modern Commodity Crop, 2019	Williams	9780891186328	3	Paper	44.95	
Introduction to Ore-Forming Processes, 2nd Edition	Robb	9781119967507	8	Paper	70.00	
Managing Nitrogen for Crop Production	Scharf	9780891186236	3	Paper	29.95	
Methods of Soil Enzymology	Dick	9780891188544	3	Cloth	119.95	
Paleoclimatology: From Snowball Earth to The Anthropocene	Summerhayes	9781119591382	7	Paper	85.00	
Plant Pathology and Plant Pathogens, 4th Edition	Lucas	9781118893869	13	Paper	54.95	

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
Practical Mathematics for Precision Farming	Clay, A. Clay, Bruggeman	9780891183617	4	Cloth	79.95	
Precision Agriculture Basics	Shannon, Clay, Kitchen	9780891183662	4	Paper	89.95	
Precision Conservation	Delgado, Sassenrath, Mueller	9780891183556	4	Paper	99.95	
Principles of Plant Genetics and Breeding, 3rd Edition	Acquaah	9781119626329	13	Paper	99.99	
Protective Chemical Agents in The Amelioration of Plant Abiotic Stress: Biochemical and Molecular Perspectives	Roychoudhury, Tripathi	9781119551638	13	Cloth	225.00	
Quantifying and Modeling Soil Structure Dynamics	Logsdon, Berli, Horn	9780891189565	4	Cloth	69.95	
Soil Bioremediation: An Approach Towards Sustainable Technology	Parray, Sayyed, Abdallah	9781119547952	12	Cloth	199.99	
Soil Fertility Management in Agroecosystems	Chatterjee, Clay	9780891183532	5	Cloth	29.95	
Soil Management: Building a Stable Base for Agriculture	Hatfield, Sauer	9780891188537	5	Cloth	99.95	
Soil-Based Wastewater Treatment	Amador, Loomis	9780891189688	5	Cloth	89.95	
Sorghum: State of The Art and Future Perspectives	Ciampitti, Prasad	9780891186274	5	Cloth	119.95	
Sustainable Business, 2nd Edition Asia Edition	Sanders	9781119667414	1	Paper	80.00	
The Graduate Student's Backpack: It's What You Need on The Research Path	Taskey	9780891183341	6	Paper	29.95	
The Mediterranean Sea in The Era of Global Change 1: 30 Years of Multidisciplinary Study of The Ligurian Sea	Migon, Nival, Sciandra	9781786304285	9	Cloth	134.95	
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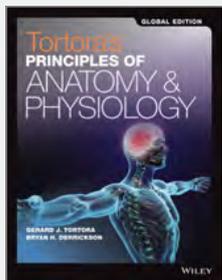
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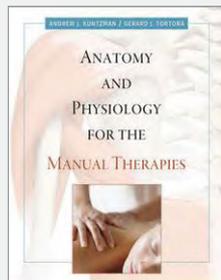
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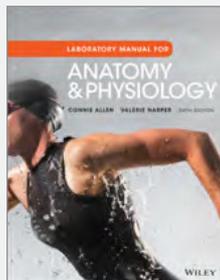
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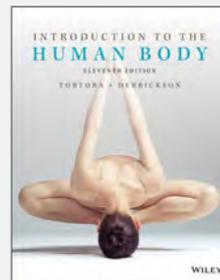
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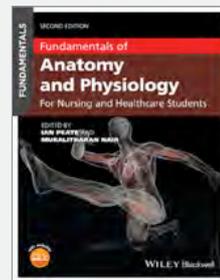
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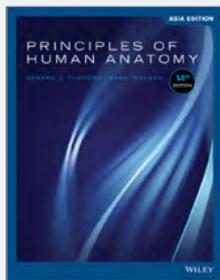


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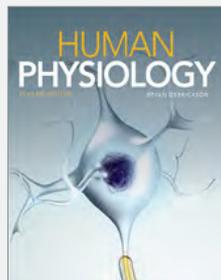


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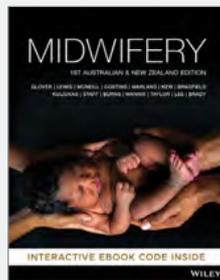


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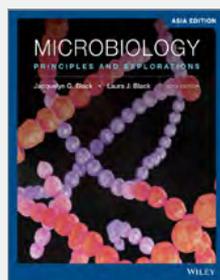
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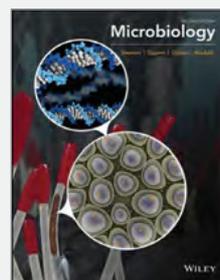
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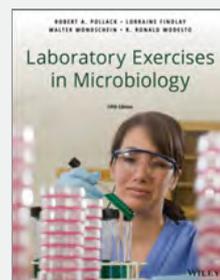
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