

Life & Earth Sciences

January to April 2021





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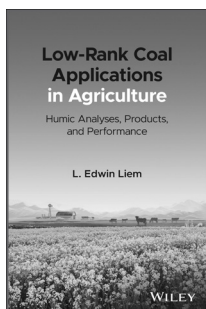
Lead Title



Adoptable Textbook

All information are correct at press time but are subject to change without prior notice.

AGRICULTURE SPECIAL TOPICS

**Low-Rank Coal Applications in Agriculture**

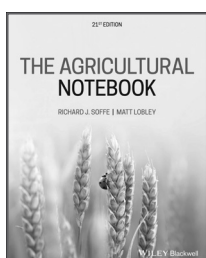
Humic Analyses, Products, and Performance

L. Edwin Liem

Low-Rank Coal Applications in Agriculture explores the commercialization and marketing potential of low-rank coal, which is rich in organic matter and humic substances. The author—a noted expert on the topic—clearly shows from a practical perspective, that rather than using it as an energy source, this material can be applied for the agricultural sector. He further investigates low-rank coal's potential as used in dry and liquid humic products, and provides data on improved soil quality, crop yields, and livestock productivity.

Reference • Wiley • 9781119734758 • Apr 2021 • Cloth • 528pp • US\$164.95

GENERAL & INTRODUCTORY AGRICULTURE

**The Agricultural Notebook**

21st Edition

Richard J. Soffe

The 21st edition of the quintessential reference book on agriculture is filled with updated and new material that provides those in the farming profession with everything they need to know about today's agricultural industry. Filled with contributions from top experts in the field, *The Agricultural Notebook* features new chapters that address wildlife, the fundamentals of agricultural production, and the modern techniques critical to the industry. It offers new chapters on sheep, goats, ruminant nutrition, monogastric nutrition, and resource management. It also takes a more in-depth approach to plant nutrition, and greater attention to environmental elements.

Reference • Wiley-Blackwell • 9781119560364 • Feb 2021 • Cloth • 880pp • US\$115.00 • Previous ed: 9780632058297



ATMOSPHERIC SCIENCES

**Reconstructing Earth's Climate History**

Inquiry-Based Exercises for Lab and Class, 2nd Edition

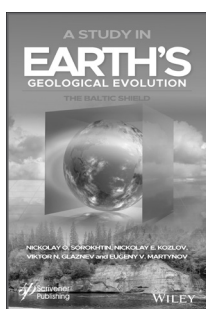
Kristen St. John

The context for understanding global climate change today lies in the records of Earth's past. This is demonstrated by decades of paleoclimate research by scientists in organizations such as the Integrated Ocean Drilling Program (IODP), the Antarctic Geological Drilling Program (ANDRILL), and many others. The purpose of this textbook is to put key data and published case studies of past climate change at your fingertips, so that you can experience the nature of paleoclimate reconstruction. *Reconstructing Earth's Climate History* is intended for earth science students at a variety of levels studying paleoclimatology, oceanography, Quaternary science, or earth-system science.

Reference • Wiley-Blackwell • 9781119544111 • Apr 2021 • Paper • 400pp • US\$95.00 • Previous ed: 9781118232941



GEOLOGY & GEOPHYSICS

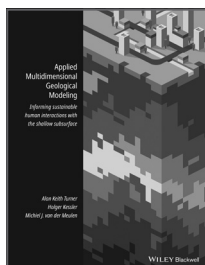
**A Study in Earth's Geological Evolution**

The Baltic Shield

Nikolay O. Sorokhtin, Nikolay E. Kozlov, Viktor N. Glaznev & Eugeny V. Martynov

A valuable resource for geologists, geophysicist, engineers in mining or petroleum engineering, and students across multiple disciplines, this is the most comprehensive and in-depth study of the development of the Baltic Shield, its features as a representative of other similar areas around the world, and the implications for practical applications, such as oil and ore production.

Reference • Wiley-Scrivener • 9781119650973 • Sep 2020 • Cloth • 608pp • US\$224.95 • Print-on-demand

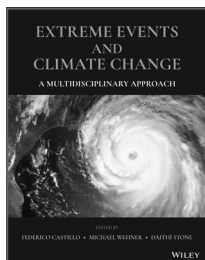


Applied Multidimensional Geological Modeling

A Keith Turner, Michiel Van der Meulen & Holger Kessler

Applied Multidimensional Geological Modeling provides a citable central source that documents the current capabilities and contributions of leading geological survey organization and other practitioners in industry and academia that are producing multidimensional geological models. This book 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 • Wiley-Blackwell • 9781119163121 • Jan 2021 • Cloth • 672pp • US\$97.95



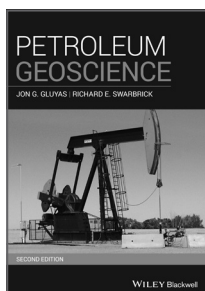
Extreme Events and Climate Change

A Multidisciplinary Approach

Federico Castillo, Michael Wehner & Dáithí Stone

Extreme Events and Climate Change provides a timely, multidisciplinary examination of the impacts of extreme weather under a warming climate. Offering wide-ranging coverage of the methods and analysis that relate changes in extreme events to their societal impacts, this volume helps readers understand the methodological challenges associated with extreme event analysis. Contributions from leading experts from across disciplines describe the theoretical requirements for analyzing the complex interactions between meteorological phenomena and the resulting outcomes, discuss new approaches for analyzing the impacts of extreme events on society, and illustrate how empirical and theoretical concepts merge to form a unified plan that enables informed decision making.

Reference • Wiley • 9781119413622 • Mar 2021 • Cloth • 256pp • US\$TBA



Petroleum Geoscience

2nd Edition

Jon Gluyas & Richard E. Swarbrick

Petroleum Geoscience is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas. This book is structured to reflect the sequential and cyclical processes of exploration, appraisal, development and production. Chapters dedicated to each of these aspects are further illustrated by case histories drawn from the authors' experiences. *Petroleum Geoscience* has a global and 'geo-temporal' backdrop, drawing examples and case histories from around the world and from petroleum systems ranging in age from late-Pre-Cambrian to Pliocene.

Reference • Wiley-Blackwell • 9781405199605 • Jan 2021 • Paper • 472pp • US\$104.00 • Previous ed: 9780632037674



Reservoir Management

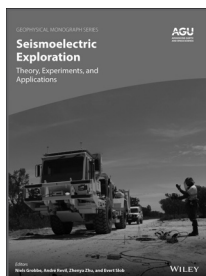
A Practical Guide

Steve Cannon

Summary of Content: 1. Introduction • 2. Reservoir Management Process • 3. Reservoir Description • 4. Building An Integrated Reservoir Model • 5. Performance, Monitoring And Forecasting • 6. Improving Hydrocarbon Recovery • 7. Development Economics • 8. Tales Of The Unexpected • Appendix 1 – Guide To Reservoir Simulation • Index

Reference • Wiley-Blackwell • 9781119619369 • Feb 2021 • Cloth • 300pp • US\$130.00





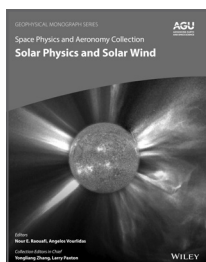
Seismoelectric Exploration

Theory, Experiments, and Applications

Niels Grobbe, André Revil, Zhenya Zhu & Evert Slob

Seismoelectric coupling and its current and potential future applications. The seismoelectric method—the naturally-occurring coupling of seismic waves to electromagnetic fields—can provide insight into important properties of porous media. With a variety of potential environmental and engineering uses, as well as larger scale applications such as earthquake detection and oil and gas exploration, it offers a number of advantages over conventional geophysical methods. *Seismoelectric Exploration* explores the coupling between poroelastic and electromagnetic disturbances, discussing laboratory experiments, numerical modeling techniques, recent theoretical developments, and field studies.

Reference • American Geophysical Union • 9781119127376 • Sep 2020 • Cloth • 496pp • US\$219.95

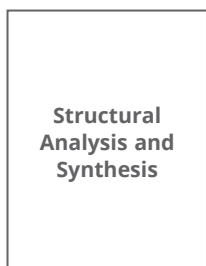


Space Physics and Aeronomy, 5 Volumes Set

Yongliang Zhang & Larry J. Paxton

The edited five volumes capture the most recent advances, applications and reviews in space physics research in a dynamic way with cutting edge contributions from world leading experts in the field. They provide a comprehensive picture of how the solar activities impact interplanetary space, the magnetosphere/ionosphere/thermosphere of planets, and application or space weather that affects life on Earth and space travel. A valuable comprehensive resource for scientists, researchers, students and instructors in the field of space physics, heliophysics, atmospheric science, earth science and environmental science.

Reference • American Geophysical Union • 9781119507482 • Mar 2021 • Cloth • 2570pp • US\$1049.95



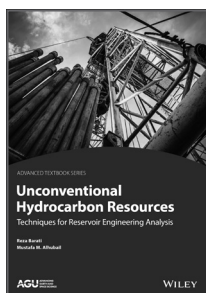
Structural Analysis and Synthesis

A Laboratory Course in Structural Geology, 4th Edition

Stephen M. Rowland, Ernest M. Duebendorfer & Alexander Gates

Summary of Content: Attitudes of Lines and Planes • Outcrop Patterns and Structure Contours • Stereographic Projection • Folds and Cross Sections • Stereographic Analysis of Folded Rocks • Rotations and Determining Original Directions in Folded Rocks • Foliations, Parasitic Folds, and Superposed Folds • Strain Measurements in Ductile Rocks • Advanced Strain Measurements • Brittle Failure • Analysis of Fracture Systems • Faults • Dynamic and Kinematic Analysis of Faults • Structural Synthesis • Deformation Mechanisms in Mylonites • Construction of Balanced Cross Sections • Introduction to Plate Tectonics • Virtual Fieldtrip

Reference • Wiley-Blackwell • 9781119535454 • Feb 2021 • Paper • 206pp • US\$70.00 • Previous ed: 9781405116527



Unconventional Hydrocarbon Resources

Techniques for Reservoir Engineering Analysis

Reza Barati & Mustafa M. Alhubail

An interdisciplinary text covering a wide range of topics including the reservoir engineering aspects of geochemistry, geomechanics, geophysics, and economics of unconventional shale plays. The text uses a step-by-step approach to demonstrate industry-standard workflows for calculating resource volume and optimizing the extraction process.

Reference • American Geophysical Union • 9781119420323 • Jan 2021 • Paper • 608pp • US\$129.95



Urban Remote Sensing

Urban Remote Sensing

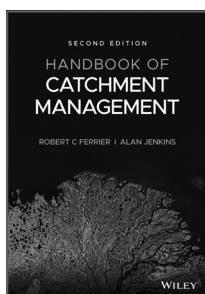
2nd Edition

Xiaojun X. Yang

Urban Remote Sensing focuses on the development of remote sensing technology for monitoring, synthesis and modeling in the urban environment. It covers four major areas: the use of high-resolution satellite imagery for urban feature extraction; the development of improved image processing algorithms and techniques for deriving accurate and information on urban attributes from remote sensor data; analytical techniques and methods for deriving indicators of socioeconomic and environmental conditions within the urban landscape; and the development of remote sensing and spatial analytical techniques for urban growth simulation.

Reference • Wiley-Blackwell • 9781119625841 • Apr 2021 • Cloth • 300pp • US\$155.00 • Previous ed: 9780470749586

HYDROLOGICAL SCIENCES



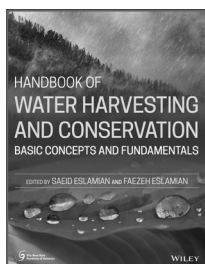
Handbook of Catchment Management

2nd Edition

Robert C. Ferrier & Alan Jenkins

Summary of Content: Introduction to Catchment Management in 2020 • Water Diplomacy • Water Financing and Pricing Mechanisms • Defining 'Smart Water' • Water, Food Energy Nexus • Groundwater Management • Diffuse Pollution Management • Emerging Contaminants and Pollutants of Concern • Flood Management • Ecological Restoration • Water, Sanitation and Health • Managing River Basins • Scotland the "Hydro Nation" • Yorkshire Integrated Catchment Solutions Programme (iCASP) • Integrated Management in Singapore • Flood and Drought Emergency Management • The River Chief System in China • Water Resources Management in the Colorado River Basin • Development in the Northern Rivers of Australia • Catchment Management of Lake Simcoe, Canada • Management of Water Resources on the Han River, Korea • Dispute Resolution in the Cauvery Basin, India • The Future for Catchment Management

Reference • Wiley • 9781119531227 • Apr 2021 • Cloth • 560pp • US\$175.00



Handbook of Water Harvesting and Conservation

Saeid Eslamian

Handbook of Water Harvesting and Conservation is the most comprehensive, up-to-date and applied handbook on water harvesting and conservation yet published. The book's 30 chapters – written by 84 outstanding international experts from approximately 20 selected countries faced by drought – explore, critique and develop concepts and systems for water harvesting. The editors bring together many perspectives into a synthesis that is both academically based and practical in its potential applications.

Reference • Wiley • 9781119478959 • Jan 2021 • Cloth • 528pp • US\$295.00

OCEANOGRAPHY & PALEOCEANOGRAPHY

Oceans For Dummies

Oceans For Dummies

Ashlan Cousteau & Philippe Cousteau

Take a deep dive into the watery, blue beyond with *Oceans For Dummies*. Swim with the fishes, float on a boat, or snorkel through seaweed as world-famous authors Ashlan and Philippe Cousteau provide readers with a simple, easy to understand guide about our ocean, how it works, and what creatures live there. It features fun facts about some of the most incredible, bizarre, and fascinating creatures in the ocean, from mantis shrimp that can strike things with the speed of a .22 caliber bullet to fish with clear heads that can see out of the top of their skulls.

Trade • For Dummies • 9781119654438 • Feb 2021 • Paper • 384pp • US\$26.95

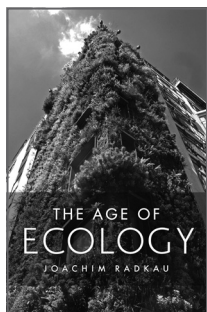
ENVIRONMENTAL CHANGE


Ecosystem Crises Interactions
Ecosystem Crises Interactions
Human Health and the Changing Environment

Merrill Singer

A timely reference textbook for advanced undergraduate and graduate students, professionals and researchers in medical geology, medical ecology, medical anthropology, public health, geohealth, and environmental studies capturing the human impacts on environment leading to serious ecological crisis. The diverse ecological calamities humans face are not presented as standalone threats, which has been the conventional perspective, but rather a novel framework is developed for understanding how negative human impacts on the environment interact and magnify their hazardous effects.

Reference • Wiley • 9781119569541 • Feb 2021 • Cloth • 400pp • US\$124.95

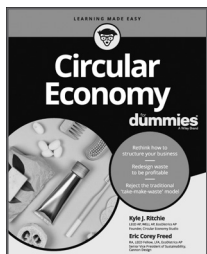

The Age of Ecology

Joachim Radkau

The first global history of environmentalism—from its origins in romanticism and the nature cults of the late 18th century to the global environmental movements of today. While the history can be traced back several centuries, environmentalism has flourished since the environmental revolution of 1970, spurred on by the Chernobyl nuclear disaster in 1986 and the growing concern about global warming. While environmentalists often opposed the scientific mainstream, they were also often led by scientific knowledge. Environmentalism is the true Enlightenment of our time—so much so that we can call our era the age of ecology.

Reference • Polity • 9780745662176 • Nov 2020 • Paper • 600pp • US\$26.00

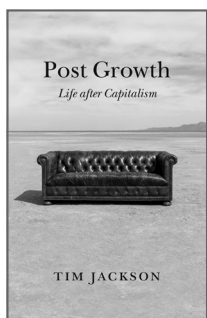
ENVIRONMENTAL ECONOMICS & POLITICS


Circular Economy For Dummies

Kyle J. Ritchie & Eric Corey Freed

We currently live in a linear economy (Make>Use>Dispose). A circular economy aims to enable goods to be used longer and recycled more efficiently (Make>Use>Recycle>Remake>Reuse). *Circular Economy For Dummies* will explain what a circular economy is, its benefits, and how businesses and organizations can align their practices within circularity.

Trade • For Dummies • 9781119716389 • Apr 2021 • Paper • 362pp • US\$26.95

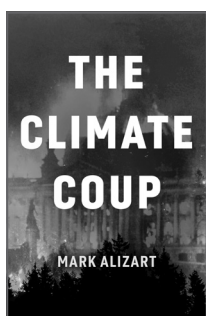

Post Growth
Life after Capitalism

Tim Jackson

Weaving together philosophical reflection, economic insight and social vision, Tim Jackson's provocative thesis is that a post growth society is a richer, not a poorer one. Material progress has changed our lives – in many ways for the better. But the luxury of having can too easily obscure the happiness of belonging, the satisfaction of achieving and the simple lightness of being. A genuine prosperity demands a deeper respect for relationship and meaning than capitalism allows. Jackson's far-reaching essay is both a manifesto for system change and an invitation to rekindle a deeper conversation about the nature of the human condition.

Reference • Polity • 9781509542512 • Mar 2021 • Cloth • 224pp • US\$64.95

Reference • Polity • 9781509542529 • Mar 2021 • Paper • 224pp • US\$19.95



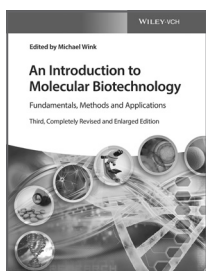
The Climate Coup

Mark Alizart

In this new book, Mark Alizart offers a fresh perspective on the climate crisis by focusing the spotlight sharply on those individuals and organizations that stand to benefit from the climate catastrophe – for these actors, the climate crisis is not something to be avoided but rather something to be encouraged as they stand to benefit from it either financially or politically. This book also aims to show how we can fight back against this climate coup by refocusing ecological activism on government's responsibilities and pragmatic ways of tackling the crisis.

Reference • Polity • 9781509546138 • Feb 2021 • Cloth • 120pp • US\$45.00
Reference • Polity • 9781509546145 • Feb 2021 • Paper • 120pp • US\$12.95

CELL & MOLECULAR BIOLOGY



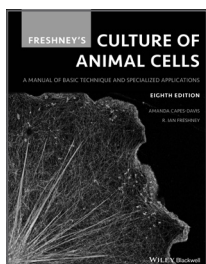
An Introduction to Molecular Biotechnology

Fundamentals, Methods and Applications, 3rd Edition

Michael Wink

A thoroughly updated edition of this well-known textbook that teaches fundamental concepts of molecular biotechnology from an academic as well as from an industrial perspective; covering fundamentals, techniques and key applications. *An Introduction to Molecular Biotechnology* addresses powerful new methods and concepts in biotechnology, such as genome editing, reprogrammed stem cells, and personalized medicine, and the contents are beautifully illustrated throughout, with hundreds of full color diagrams and photographs – providing students and professionals in life sciences, pharmacy and biochemistry with everything they need to know about molecular biotechnology.

Reference • Wiley-VCH • 9783527344147 • Feb 2021 • Paper • 544pp • US\$102.23 • Previous ed: 9783527326372



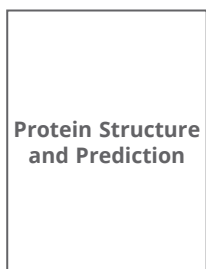
Freshney's Culture of Animal Cells

A Manual of Basic Technique and Specialized Applications, 8th Edition

Amanda Capes-Davis & R. Ian Freshney

Updated throughout, this eighth edition keeps pace with the latest techniques and emerging new applications in cell culture, including the use of CRISPR for gene editing, new materials for three-dimensional culture, and new techniques to induce stem cell proliferation and differentiation. The revised edition features a brand new chapter that examines the origin and evolution of cell cultures and cell lines, and another new, dedicated chapter discusses irreproducible research, its causes, and the importance of good cell culture.

Reference • Wiley-Blackwell • 9781119513018 • Apr 2021 • Cloth • 800pp • US\$115.00 • Previous ed: 9781118873656



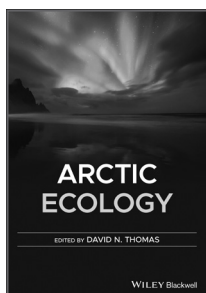
Protein Structure and Prediction

Geoffrey J Barton

Summary of Content: 1 Introduction • 2 Protein Structure - What to Predict? • 3 Comparison of Sequence and Structure • 4 Sequence Alignment & Database Searching • 5 Protein Structure Prediction by Similarity • 6 Protein Secondary Structure Prediction • 7 How Useful is Structure Prediction – Perspectives for the Future • A Structure Determination Methods • B Storage of Information on Macromolecular Structure • C Internet Resources for the Structure Predictor • D References • E Figures • F Tables

Reference • Wiley-Blackwell • 9780865427631 • Nov 2020 • Paper • 192pp • US\$37.50

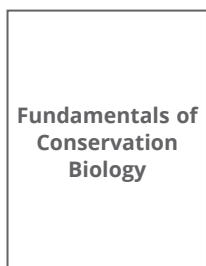
ECOLOGY & ORGANISMAL BIOLOGY

**Arctic Ecology**

David N. Thomas

The Arctic is often portrayed as being isolated, but the reality is that the connectivity with the rest of the planet is huge – be it through weather patterns, global ocean circulation, and large-scale migration patterns. Undoubtedly the Arctic is at the forefront of the international environmental science agenda, both from a scientific, and from a policy/environmental management perspective. *Arctic Ecology* aims to stimulate a wide audience to think about the Arctic by highlighting the remarkable breadth of what it means to study its ecology. It is also designed to provide graduate students of environmental science, ecology and climate change with a source where Arctic ecology is addressed specifically, with issues due to climate change clearly discussed.

Reference • Wiley-Blackwell • 9781118846544 • Jan 2021 • Cloth • 350pp • US\$60.00

**Fundamentals of Conservation Biology**

4th Edition

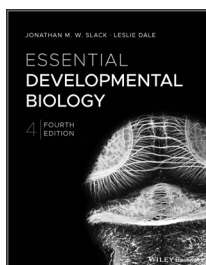
Malcolm L. Hunter Jr. & James P. Gibbs

Summary of Content: Preface • Conservation and Conservation Biology • What is Biodiversity? • Species Diversity • Ecosystem Diversity • Genetic Diversity • Global Change: Past and Future • Extinction Processes • Ecosystem Degradation and Loss • Overexploitation • Exotic Species • Protecting Ecosystems • Sustaining Ecosystems • Managing Populations • Conservation near people • Social Factors • Economics • Taking action • Glossary • Literature cited and author index • Species index • Subject index

Reference • Wiley-Blackwell • 9781119144168 • Mar 2021 • Cloth • 640pp • US\$95.00 • Previous ed: 9781405135450



GENERAL & INTRODUCTORY LIFE SCIENCES

**Essential Developmental Biology**

4th Edition

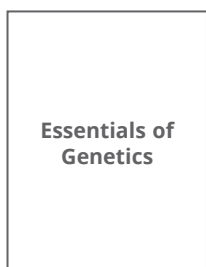
Jonathan M. W. Slack & Leslie Dale

Essential Developmental Biology is a comprehensive, richly illustrated introduction to all aspects of developmental biology. Written in a clear and accessible style, the fourth edition of this popular textbook has been expanded and updated to include new findings in hot fields such as stem cells, regeneration, and aging.

Reference • Wiley • 9781119512851 • Mar 2021 • Paper • 496pp • US\$120.00 • Previous ed: 9780470923511



GENETICS

**Essentials of Genetics**

R. Scott Hawley

This text is a distinctive and engaging introduction to genetics for advanced undergraduates and above. Written by the author of the best-selling human genome textbook (*The Human Genome*, 1999), Hawley presents a concise overview of general genetics for a 10-14 week course. His selection of examples comes from all major system categories.

Reference • Wiley-Blackwell • 9781405103718 • Nov 2020 • Paper • 500pp • US\$84.95



Genetic Analysis of Complex Disease

Genetic Analysis of Complex Disease

3rd Edition

Bill Scott & Marylyn Ritchie

Genetic Analysis of Complex Disease provides a comprehensive introduction to the various strategies, designs, and methods of analysis for the study of human complex genetic disease. Chapters present clear and easily referenced overviews of the broad range of considerations involved in genetic analysis of human complex genetic disease. This updated third edition includes a new chapter on next-generation sequencing, copy-number variants and epigenetic analysis, increased emphasis on bioinformatics tools, and a new expanded chapter on complex genetic interactions.

Reference • Wiley-Blackwell • 9781118123911 • Mar 2021 • Paper • 512pp • US\$129.95 • Previous ed: 9780471089520



Genetic Disorders and the Fetus

Genetic Disorders and the Fetus

Diagnosis, Prevention and Treatment, 8th Edition

Aubrey Milunsky & Jeff M. Milunsky

Genetic Disorders and the Fetus continues the long-established tradition of excellence that has become synonymous with this text. The book builds on the foundations of preconception and prenatal genetic counseling and the original pillars of prenatal diagnosis while also providing authoritative coverage of exciting developments in non-invasive genetic testing and rapidly developing molecular techniques, including microarray analysis and next generation sequencing, that are revolutionizing the field. Chapters are authored by recognized authorities in the field, and the broad-ranging coverage and international scope ensure that the new edition maintains its role as the major repository for information on all aspects of prenatal diagnosis.

Reference • Wiley-Blackwell • 9781119676935 • Apr 2021 • Cloth • 1216pp • US\$290.00 • Previous ed: 9781118981528

Population Genetics and Microevolutionary Theory

Population Genetics and Microevolutionary Theory

2nd Edition

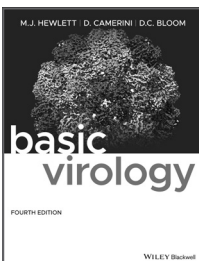
Alan R. Templeton

Population Genetics and Microevolutionary Theory provides a solid basis in population genetics, with an emphasis on comprehending the biological implications of population genetic theory. Building on the success of the first edition, the book is now revised and expanded with coverage of the exciting new developments in the field, including new discoveries in epigenetics and genome-wide studies. Emphasizing that population structure forms the underlying template upon which quantitative genetics and natural selection operate, the book prepares students to successfully apply population genetics analytical tools by providing a solid foundation in microevolutionary theory.

Reference • Wiley-Blackwell • 9781118504239 • Mar 2021 • Cloth • 720pp • US\$134.95 • Previous ed: 9780471409519



MICROBIOLOGY & VIROLOGY



Basic Virology

4th Edition

Martinez J. Hewlett, David Camerini & David C. Bloom

The foundational textbook on the study of virology. *Basic Virology's* easily read style, outstanding figures, and comprehensive coverage of fundamental topics in virology all account for its immense popularity. This undergraduate-accessible book covers all the foundational topics in virology, and the revised fourth edition includes new information on the SARS, MERS and COVID-19 coronaviruses, hepatitis C virus, influenza virus, as well as HIV and Ebola. New virological techniques including bioinformatics and advances in viral therapies for human disease are also explored in-depth. The book also includes entirely new sections on metapneumoviruses, dengue virus, and the chikungunya virus.

Reference • Wiley-Blackwell • 9781119314059 • Jan 2021 • Paper • 600pp • US\$TBA • Previous ed: 9781405147156



Cyanobacteria
Biotechnology**Cyanobacteria Biotechnology***Paul Hudson, Sang Yup Lee, Jens Nielsen & Gregory Stephanopoulos*

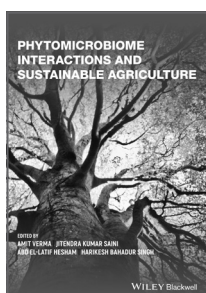
Systematic and clear, *Cyanobacteria Biotechnology* does not only unite a biological as well as biotechnological perspective on cyanobacteria, it also provides the reader with the necessary considerations in regard to industrial aspects and applications of cyanobacteria.

Reference • Wiley-VCH • 9783527347148 • Feb 2021 • Cloth • 450pp • US\$170.16

Introduction to
Bacterial
Pathogenesis**Introduction to Bacterial Pathogenesis***Ferric C Fang*

Designed to provide a balanced and up-to-date presentation of bacterial-host interactions, including both current paradigms and areas of controversy. This book will highlight not only current knowledge but what is left to be discovered. The author presents in depth explanation of major concepts in an intelligent and accessible style while providing examples of clinical manifestation in boxes for interest and comprehension.

Reference • Wiley-Blackwell • 9781405148924 • Nov 2020 • Paper • 600pp • US\$64.95

**Phytomicrobiome Interactions and Sustainable Agriculture***Amit Verma, Jitendra Kumar Saini, Harikesh Bahadur Singh & Abd El-Latif Hesham*

This book will help plant biologists and microbiologists to understand the importance of microbes in overall plant growth and development, leading to enhanced production and productivity to feed our growing population. *Phytomicrobiome Interactions and Sustainable Agriculture* explores the key benefits of plant development such as nutrient availability, amelioration of stress and defense to plant disease, as well as newly emerging technical concept of Phytomicrobiome engineering. Throughout the book, the authors introduce and classify the corresponding Phytomicrobiome components and then present a detailed discussion related to its effect on plant development.

Reference • Wiley-Blackwell • 9781119644620 • Jan 2021 • Cloth • 324pp • US\$199.99

Soil
Bioremediation**Soil Bioremediation****An Approach Towards Sustainable Technology***Javid A. Parray, Abeer Hashem & Riyaz Sayyed*

Presents effective and sustainable technological approaches for remediation of contaminants via the eco-friendly usage of microbes. *Soil Bioremediation focuses on the role of microbes for the degradation and removal of various xenobiotic substances in the environment* emphasizes 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, the potential of microbes for various techniques of bioremediation, including bio-sorption, bio-augmentation, bio-stimulation, to clean contaminated environments are discussed.

Reference • Wiley-Blackwell • 9781119547952 • Feb 2021 • Cloth • 480pp • US\$175.00

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**Practical Guide to
Diagnostic
Parasitology**
Practical Guide to Diagnostic Parasitology

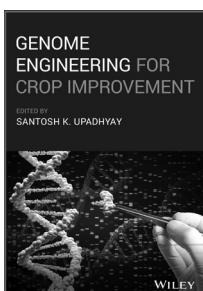
3rd Edition

Lynne Shore Garcia

Designed as a training aid and rapid reference for laboratorians, this volume supplements the large standard textbooks in clinical parasitology, providing comprehensive information for practicing microbiologists, physicians, medical technologists, and students. The book contains brief and easily accessible summaries of diagnostic procedures and organism morphology and offers descriptions of the parasites with clear illustrations, both diagrammatic and photographic. Diagnostic algorithms, tables, identification keys and extensive information on method selection and clinical relevance make this an essential guide.

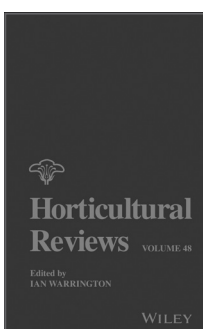
Reference • ASM Press • 9781683670391 • Mar 2021 • Paper • 520pp • US\$89.95 • Previous ed: 9781555814540

PLANT SCIENCE

**Genome Engineering for Crop Improvement***Santosh Upadhyay*

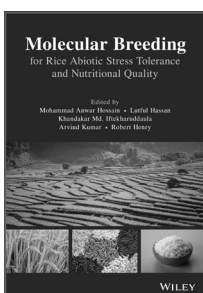
Genome Engineering for Crop Improvement compiles the recent knowledge and developments in nutritional value, mineral and nutrient localization, and engineering for nutritional improvement of crop plants and provides an up-to-date view of the use of genome editing for crop bio-fortification, improved bioavailability of minerals and nutrients, and enhanced hypo-allergenicity and hypo-immunogenicity. This volume examines a diversity of important topics including mineral and nutrient localization, metabolic engineering of carotenoids and flavonoids, genome engineering of zero calorie potatoes and allergen-free grains, engineering for stress resistance in crop plants, and more.

Reference • Wiley • 9781119672364 • Feb 2021 • Cloth • 448pp • US\$190.00

**Horticultural Reviews, Volume 48***Ian Warrington*

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Reference • Wiley • 9781119750772 • Mar 2021 • Cloth • 300pp • US\$244.95

**Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality***Mohammad Anwar Hossain, Lutful Hassan, Khandakar Md. Ifterkharuddaula, Arvind Kumar & Robert Henry*

Various abiotic stresses—currently impacting an estimated 60% of crop yields—are projected to increase in severity and frequency due to climate change. In light of the threat of global food grain insecurity, interest in molecular rice breeding has intensified in recent years. This is the first book to provide comprehensive and up-to-date coverage of this critical topic, containing the physiological, biochemical, and molecular information required to develop effective engineering strategies for enhancing rice yield. Authoritative and in-depth chapters examine the molecular and genetic bases of abiotic stress tolerance, discuss yield and quality improvement of rice, and explore new approaches to better utilize natural resources through modern breeding.

Reference • Wiley • 9781119633112 • Apr 2021 • Cloth • 480pp • US\$200.00



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Reference • Wiley • 9781119716914 • Dec 2020 • Cloth • 336pp • US\$244.95

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