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Urban Ecology, Water Quality and Climate Change - Arup K. Sarma
2018-03-14

This unique book brings together high-quality research contributions on ecological aspects of urbanization, water quality concerns in an urban environment, and climate change issues with a strong Indian focus under one umbrella. It includes several case studies that discuss urban water management, particularly highlighting the quality aspects. Urbanization is an ecological disturbance that the modern world accepts as essential in the absence of a better alternative that could provide an equal level of comfort. The prohibitive costs of eco-friendly production technologies are forcing the developing world to generate industrial waste that is detrimental to the environment. At the same time, the availability of adequate fresh water is another challenge for our climate-change impacted world. The scientific community is, therefore, searching for ways towards ecologically sustainable urban development. Discussing all these issues, this book offers a useful guide for academicians, researchers, practicing engineers, and managers dealing with diverse water-related problems in urban areas.

Anatomy & Physiology - Tracey Greenwood 2013-06-15

"Anatomy and Physiology explores the essentials of human structure and function through engaging, generously illustrated activities. Much of the content in the first edition has been revised to include larger diagrams, more photographs, and greater depth of coverage in key areas. Sound biological principles are emphasised throughout, and key interactions between body systems are indicated using annotated introductory figures. Using key examples, students are encouraged to explore each body system within the contexts of disease, medicine and technology, aging, and exercise. The result is a rounded exploration of the functioning human."--Back cover.

Balkan Biodiversity - Huw I. Griffiths 2013-03-19

This is the first attempt to synthesize current understanding of biodiversity in the great European hot spot. A diverse group of international researchers offers perspective on biodiversity at the level of the gene, species and ecosystem, including contributions on temporal change. Biological groups include plants, mammals, spiders and humans, cave-dwelling organisms, fish, aquatic invertebrates and algae.

Environmental Science - Tracey Greenwood 2013

"Environmental Science introduces students to the Earth's physical and biological systems, and the interactions of humans with these. This revision introduces new content and aligns the workbook to its supporting digital resources. Content developments include updates on the Gulf of Mexico oil spill and the Fukushima Daiichi nuclear disaster, and in-depth coverage of energy extraction issues, pollution, and the wider environmental implications of urban development. The ideal companion to both the APES curriculum and the IB Environmental Systems and Societies"--Back cover.

Atlas of Plant Anatomy - Jaroslav Pazourek 1997

Practical and Theoretical Geoarchaeology - Paul Goldberg
2013-05-03

Practical and Theoretical Geoarchaeology provides an invaluable overview of geoarchaeology and how it can be used effectively in the study of archaeological sites and contexts. Taking a pragmatic and functional approach, this book presents: a fundamental, broad-based perspective of the essentials of modern geoarchaeology in order to demonstrate the breadth of the approaches and the depth of the problems that it can tackle. the rapid advances made in the area in recent years, but also gives the reader a firm grasp of conventional approaches. covers traditional topics with the emphasis on landscapes, as well as anthropogenic site formation processes and their investigation. provides guidelines for the presentation of field and laboratory methods and the reporting of geoarchaeological results. essential reading for archaeology undergraduate and graduate students, practicing

archaeologists and geoscientists who need to understand and apply geoarchaeological methodologies. Artwork from the book is available to instructors online at: www.blackwellpublishing.com/goldberg "This is one of the best textbooks that I have read in years. I enjoyed reviewing it, and found it well-written and thorough in its coverage of the traditional earth science aspects of geoarchaeology. The non-traditional aspects were intriguing and equally thorough... I predict that this book will become the textbook of choice for geoarchaeology classes for several years." *Geomorphology* 101 (2008) 740-743

The Sedimentary Record of Sea-Level Change - Dan W. J. Bosence
2003-05-22

This unique textbook describes how past changes in sea-level can be detected through an analysis of the sedimentary record. In particular, it concentrates on the current sequence stratigraphy model. It explains this model from basics and shows how the model can be applied to both siliciclastic and carbonate successions. Designed for undergraduate and graduate courses in sequence stratigraphy, as well as for professional courses within the petroleum industry, this full-colour textbook includes numerous features that will aid tutors and students alike. These include detailed case studies demonstrating the practical applications of sequence stratigraphy and set-aside boxes providing supplementary and background information. Bulleted questions and answers are interspersed throughout the text, encouraging students to test their understanding of the material. The book is supported by a website hosting sample pages from the book, selected illustrations to download, and worked exercises.

Smell and Taste Disorders - Christopher H. Hawkes 2018-01-25

This is a comprehensive and unique text that details the latest research on smell and taste disorders for use by clinicians and scientists.

Barron's AP Environmental Science With Online Tests - Gary S. Thorpe
2017-11-30

Learning—and remembering—everything you need to know about the AP Environmental Science test can seem overwhelming. With help from this updated test preparation manual, however, test-takers will learn all they need to succeed on this test, including: Two full-length practice exams with all questions answered and explained A detailed review of all test topics, including updates based on recent developments and changes in environmental laws, case studies that reflect topical environmental events, and practice questions and answers for each content area An overview of the format of the exam plus answers to frequently asked questions about this test Hundreds of diagrams and illustrations, including brand new tables, charts, and figures ONLINE PRACTICE TESTS: Students who purchase this book will also get access to three additional full-length online AP Environmental Science tests with all questions answered and explained.

Physical Geology - Steven Earle 2019

"Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"--BCcampus website.

Anatomy & Physiology - 2016

The Cambridge Dictionary of Human Biology and Evolution - Larry L. Mai
2005-01

The Dictionary of Human Biology and Evolution (DHBE) is an invaluable research and study tool for both professionals and students covering a broad range of subjects within human biology, physical anthropology, anatomy, auxology, primatology, physiology, genetics, paleontology and

zoology. Packed with 13000 descriptions of terms, specimens, sites and names, DHBE also includes information on over 1000 word roots, taxonomies and reference tables for extinct, recent and extant primates, geological and oxygen isotope chronologies, illustrations of landmarks, bones and muscles and an illustration of current hominid phylogeny, making this a must-have volume for anyone with an interest in human biology or evolution. DHBE is especially complete in its inventory of archaeological sites and the best-known hominid specimens excavated from them, but also includes up-to-date information on terms such as *in silico*, and those relating to the rapidly developing fields of human genomics.

Large Asian Lakes in a Changing World - Steffen Mischke 2020-05-11
Describing the natural state of eight important lakes in Asia and the human impact on these lake ecosystems, this book offers a valuable reference guide. Over the past several decades the Aral Sea, Dead Sea, Lake Balkhash and other major lakes in Asia have undergone significant changes with regard to their size, water level, chemical composition, and flora and fauna. Most of these changes resulted from the loss of water from tributaries (now used for irrigation farming) or increasing consumption in local industries and households. However, significant human impacts may have begun as early as 2000 years ago. In addition to the three lakes mentioned above, Lake Sevan (Armenia), the Caspian Sea (Azerbaijan, Iran, Kazakhstan, Russia, Turkmenistan), Lake Issyk-Kul (Kyrgyzstan), and Lake Lop Nur (China) are discussed as the most prominent examples of changing lake ecosystems. In contrast, an example of an almost pristine lake ecosystem is included with the report on Lake Uvs Nuur (Mongolia). For each lake, the book summarizes its origin and early geological history, and reconstructs its natural state and variability on the basis of proxy records from drilled or exposed lake sediments that have accumulated since the last ice age. The frequently observed reductions in lake level and size during most recent decades led often to significant environmental impacts in the respective lake catchments including vegetation deterioration, soil erosion and badland formation, soil salinization or the formation of sinkholes.

Biology for AP® Courses - Julianne Zedalis 2017-10-16
Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

History of the Australian Vegetation - Robert S. Hill 2017-03-01
The Australian vegetation is the end result of a remarkable history of climate change, latitudinal change, continental isolation, soil evolution, interaction with an evolving fauna, fire and most recently human impact. This book presents a detailed synopsis of the critical events that led to the evolution of the unique Australian flora and the wide variety of vegetational types contained within it. The first part of the book details the past continental relationships of Australia, its palaeoclimate, fauna and the evolution of its landforms since the rise to dominance of the angiosperms at the beginning of the Cretaceous period. A detailed summary of the palaeobotanical record is then presented. The palynological record gives an overview of the vegetation and the distribution of important taxa within it, while the complementary macrofossil record is used to trace the evolution of critical taxa. This book will interest graduate students and researchers interested in the evolution of the flora of this fascinating continent.

Cold Plasma in Food and Agriculture - NN Misra 2016-07-15
Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. Food scientists and food engineers interested in understanding the theory and application of nonthermal plasma for food will find this book valuable because it provides a roadmap for future developments in this emerging field. This reference is also useful for biologists, chemists, and physicists who wish to understand the fundamentals of plasma physics, chemistry, and technology and their biological interactions through applying novel plasma sources to food and other sensitive biomaterials. Examines the

topic of cold plasma technology for food applications Demonstrates state-of-the-art developments in plasma technology and potential solutions to improve food safety and quality Presents a solid introduction for readers on the topics of plasma physics and chemistry that are required to understand biological applications for foods Serves as a roadmap for future developments for food scientists, food engineers, and biologists, chemists, and physicists working in this emerging field

The Origin of Eukaryotic Cells - Betsey Dexter Dyer 1985

AP Biology 1 Student Workbook - Tracey Greenwood 2012-08-01

Geology of Millard County, Utah - Lehi F. Hintze 2003-01-01
This bulletin serves not only to introduce the non-geologist to the rich geology of Millard County, but also to provide professional geologists with technical information on the stratigraphy, paleontology, and structural geology of the county. Millard County is unique among Utah's counties in that it contains an exceptionally complete billion-year geologic record. This happened because until about 200 million years ago the area of present-day Millard County lay near sea level and was awash in shallow marine waters on a continental shelf upon which a stack of fossil-bearing strata more than 6 miles (10 km) thick slowly accumulated. This bulletin summarizes what is known about these strata, as well as younger rocks and surficial deposits in the county, and provides references to scientific papers that describe them in greater detail. Mountains North 30 x 60 (1:100,000-scale) quadrangles. These companion maps and this bulletin portray the geology of Millard County more completely and accurately than any previously published work.
Geodiversity - Murray Gray 2004-06-25

A counterpoint to biodiversity, geodiversity describes the rocks, sediments, soils, fossils, landforms, and the physical processes that underlie our environment. The first book to focus exclusively on the subject, *Geodiversity* describes the interrelationships between geodiversity and biodiversity, the value of geodiversity to society, as well as current threats to its existence. Illustrated with global case studies throughout, the book examines traditional approaches to protecting biodiversity and the new management agenda which is starting to be used instead.

The Global Carbon Cycle - Martin Heimann 2013-06-29
This book is the outcome of a NAill Advanced Study Institute on the contemporary global carbon cycle, held in n Ciocco, Italy, September 8-20, 1991. The motivation for this ASI originated from recent controversial findings regarding the relative roles of the ocean and the land biota in the current global balance of atmospheric carbon dioxide. Consequently, the purpose of this institute was to review, among leading experts in the field, the multitude of known constraints on the present day global carbon cycle as identified by the fields of meteorology, physical and biological oceanography, geology and terrestrial biosphere sciences. At the same time the form of an Advanced Study Institute was chosen, thus providing the opportunity to convey the information in tutorial form across disciplines and to young researchers entering the field. The first three sections of this book contain the lectures held in II Ciocco. The first section reviews the atmospheric, large-scale global constraints on the present day carbon cycle including the emissions of carbon dioxide from fossil fuel use and it provides a brief look into the past. The second section discusses the role of the terrestrial biosphere and the third the role of the ocean in the contemporary global carbon cycle.

Handbook of Cardiac Anatomy, Physiology, and Devices - Paul A. Iaizzo 2015-11-13

This book covers the latest information on the anatomic features, underlying physiologic mechanisms, and treatments for diseases of the heart. Key chapters address animal models for cardiac research, cardiac mapping systems, heart-valve disease and genomics-based tools and technology. Once again, a companion of supplementary videos offer unique insights into the working heart that enhance the understanding of key points within the text. Comprehensive and state-of-the-art, the *Handbook of Cardiac Anatomy, Physiology and Devices*, Third Edition provides clinicians and biomedical engineers alike with the authoritative information and background they need to work on and implement tomorrow's generation of life-saving cardiac devices.

Introduction to Paleobiology and the Fossil Record - Michael J. Benton 2013-04-25

This book presents a comprehensive overview of the science of the history of life. Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the book introduces the latest

techniques, from multivariate investigations of biogeography and biostratigraphy to engineering analysis of dinosaur skulls, and from homeobox genes to cladistics. All the well-known fossil groups are included, including microfossils and invertebrates, but an important feature is the thorough coverage of plants, vertebrates and trace fossils together with discussion of the origins of both life and the metazoans. All key related subjects are introduced, such as systematics, ecology, evolution and development, stratigraphy and their roles in understanding where life came from and how it evolved and diversified. Unique features of the book are the numerous case studies from current research that lead students to the primary literature, analytical and mathematical explanations and tools, together with associated problem sets and practical schedules for instructors and students. "...any serious student of geology who does not pick this book off the shelf will be putting themselves at a huge disadvantage. The material may be complex, but the text is extremely accessible and well organized, and the book ought to be essential reading for palaeontologists at undergraduate, postgraduate and more advanced levels—both in Britain as well as in North America." Falcon-Lang, H., Proc. Geol. Assoc. 2010 "...this is an excellent introduction to palaeontology in general. It is well structured, accessibly written and pleasantly informativeI would recommend this as a standard reference text to all my students without hesitation." David Norman Geol Mag 2010 Companion website This book includes a companion website at: www.blackwellpublishing.com/paleobiology The website includes: · An ongoing database of additional Practical's prepared by the authors · Figures from the text for downloading · Useful links for each chapter · Updates from the authors

Sedimentology and Stratigraphy - Gary Nichols 2013-04-30

This fully revised and updated edition introduces the reader to sedimentology and stratigraphic principles, and provides tools for the interpretation of sediments and sedimentary rocks. The processes of formation, transport and deposition of sediment are considered and then applied to develop conceptual models for the full range of sedimentary environments, from deserts to deep seas and reefs to rivers. Different approaches to using stratigraphic principles to date and correlate strata are also considered, in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy. The text and figures are designed to be accessible to anyone completely new to the subject, and all of the illustrative material is provided in an accompanying CD-ROM. High-resolution versions of these images can also be downloaded from the companion website for this book at: www.wiley.com/go/nicholssedimentology.

Assessing Iron Age Marsh-Forts - Shelagh Norton 2021-10-07

This volume assesses marsh-forts as a separate phenomenon within Iron Age society through an understanding of their landscape context and palaeoenvironmental development. These substantial monuments appear to have been deliberately constructed to control areas of marginal wetland and may have played an important role in the ritual landscape.

Introduction to Marine Biology - George Karleskint 2012-04-26

INTRODUCTION TO MARINE BIOLOGY sparks curiosity about the marine world and provides an understanding of the process of science. Taking an ecological approach and intended for non-science majors, the text provides succinct coverage of the content while the photos and art clearly illustrate key concepts. Studying is made easy with phonetic pronunciations, a running glossary of key terms, end-of-chapter questions, and suggestions for further reading at the end of each chapter. The open look and feel of INTRODUCTION TO MARINE BIOLOGY and the enhanced art program convey the beauty and awe of life in the ocean. Twenty spectacular photos open the chapters, piquing the motivation and attention of students, and over 60 photos and pieces of art are new or redesigned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

American Megafaunal Extinctions at the End of the Pleistocene - Gary Haynes 2008-12-23

The volume contains summaries of facts, theories, and unsolved problems pertaining to the unexplained extinction of dozens of genera of mostly large terrestrial mammals, which occurred ca. 13,000 calendar years ago in North America and about 1,000 years later in South America. Another equally mysterious wave of extinctions affected large Caribbean islands around 5,000 years ago. The coupling of these extinctions with the earliest appearance of human beings has led to the suggestion that foraging humans are to blame, although major climatic shifts were also taking place in the Americas during some of the extinctions. The last published volume with similar (but not identical)

themes -- Extinctions in Near Time -- appeared in 1999; since then a great deal of innovative, exciting new research has been done but has not yet been compiled and summarized. Different chapters in this volume provide in-depth resumés of the chronology of the extinctions in North and South America, the possible insights into animal ecology provided by studies of stable isotopes and anatomical/physiological characteristics such as growth increments in mammoth and mastodont tusks, the clues from taphonomic research about large-mammal biology, the applications of dating methods to the extinctions debate, and archeological controversies concerning human hunting of large mammals.

Geodynamics of the Indian Plate - Neal Gupta 2020-02-28

This book provides insights on new geological, tectonic, and climatic developments in India through a time progression from the Archean to the Anthropocene that are captured via authoritative entries from experts in earth sciences. This volume aims to bring graduate students and researchers up to date on the geodynamic evolution of the Indian Plate; concepts that have so far resulted in a rather uneven treatment of the subject at different institutions. The book is divided into 4 sections and includes perspectives such as the formation and evolution of the Indian crust in comparison to its neighbors such as Antarctica, Africa and Australia; the evolution of Precambrian cratons and sedimentary basins of India; and a summary account of early life reported in the Indian stratigraphic record. Readers will also discover the key recent research into the neotectonics, tectonic geomorphology, and paleoseismology of the Himalayan Front. Researchers and students in geology, earth sciences, sedimentology, paleobiology and geography will find this book appealing.

Late Cretaceous and Cenozoic History of North American Vegetation - Alan Graham 1999-03-25

This book is a unique and integrated account of the history of North American vegetation and paleoenvironments over the past 70 million years. It includes discussions of the modern plant communities, causal factors for environmental change, biotic response, and methodologies. The history reveals a North American vegetation that is vast, immensely complex, and dynamic.

Ecosystem Geography - Robert G. Bailey 2013-12-12

The analysis and management of ecosystems rely increasingly on sound geographical knowledge. Ecosystem Geography is a landmark contribution which brings the geographer's tools - maps, scales, boundaries, and units - to the study of ecosystems. The author, a senior geographer and program manager with the U.S. Forest Service, has distilled more than two decades of research on ecosystem mapping and classification. His work has had a growing influence on how government and academic scientists are using ecological data to monitor biodiversity, manage land holdings, and interpret the results of climatic change. Ecosystem Geography features spectacular graphics, including diagrams, photographs, and abundant maps. It will be welcomed by ecologists, geographers, land and resource specialists, and anyone involved in the study of ecosystems.

Concepts of Biology - Samantha Fowler 2018-01-07

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Biodegradation of Nitroaromatic Compounds - Jim C. Spain 2013-11-21

During the past five years increased awareness of environmental contamination by nitroaromatic compounds has led to a dramatic increase in research on their biodegradation. The resulting discoveries

have markedly extended our understanding of degradation mechanisms and pathways in bacteria and fungi. Furthermore, this new basic knowledge promises the development of field applications of biodegradation systems for nitroaromatic compounds. In May of 1994, an International Symposium on the Biodegradation of Nitroaromatic Compounds was held in Las Vegas, Nevada. This symposium brought together the scientists at the frontiers of research into the biodegradation of nitroaromatic compounds. The invited speakers were asked to review their area of expertise and write a critical, comprehensive synthesis of their work and related work by others. This book is the result of their efforts. The emphasis of the reviews is on basic research in biodegradation and biotransformation. Therefore, the reactions of nitroaromatic compounds in plants, animals, bacteria, fungi, soil, and even nonbiological systems are considered. The goal of the work is to provide the reader with an appreciation of the tremendous range of possibilities for metabolism of aromatic nitro compounds and the experimental approaches used to understand them. This volume should be of interest to biochemists, microbiologists, engineers, toxicologists, and anyone interested in the behavior of synthetic chemicals in the environment or in living systems. Furthermore, a variety of commercial applications can be envisioned for some of the reactions described here.

Conceptual Physics - Paul G. Hewitt 1992

Biology for the IB Diploma - C. J. Clegg 2014-09-18

Provide clear guidance to the 2014 changes and ensure in-depth study with accessible content, directly mapped to the new syllabus and approach to learning. This second edition of the highly regarded textbook contains all SL and HL content, which is clearly identified throughout. Options are available free online, along with appendices and data and statistics. - Improve exam performance, with exam-style questions, including from past papers - Integrate Theory of Knowledge into your lessons and provide opportunities for cross-curriculum study - Stretch more able students with extension activities - The shift to concept-based approach to learning, Nature of Science, is covered by providing a framework for the course with points for discussion - Key skills and experiments included

How's Life? - Marta Dal Corso 2019-07-18

This book examines Bronze Age and Iron Age developments such as metalworking, social structure, food production, nutrition, diet, the intensification of European networks and human impact on the environment. What influence did these developments have on daily life?

Biology for the IB Diploma Study and Revision Guide - Andrew Davis 2017-07-10

Exam Board: IB Level: IB Subject: Biology First Teaching: September 2014 First Exam: Summer 16 Stretch your students to achieve their best grade with these year round course companions; providing clear and concise explanations of all syllabus requirements and topics, and practice

questions to support and strengthen learning. - Consolidate revision and support learning with a range of exam practice questions and concise and accessible revision notes - Practise exam technique with tips and trusted guidance from examiners on how to tackle questions - Focus revision with key terms and definitions listed for each topic/sub topic
AP Biology 1 - Tracey Greenwood 2017-09

The Double Helix - James D. Watson 2011-08-16

The classic personal account of Watson and Crick's groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of *A Beautiful Mind*. By identifying the structure of DNA, the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has a scientist been so truthful in capturing in words the flavor of his work.

STROMATOLITES: Interaction of Microbes with Sediments - Vinod Tewari 2011-03-23

STROMATOLITES: Interaction of Microbes with Sediments provides an overview and latest information about the formation of Stromatolites as a result of interaction of microbes with sediments. Eighty-three expert scientists from twenty-seven countries present the chapters in this volume which have been reviewed by thirty four referees. The volume deals with ancient to modern examples of stromatolites and microorganisms which are observed in various diverse environments, such as: marine, nonmarine, lacustrine and extreme geographical areas covering almost the whole earth. The reviews are original articles written by leading experienced experts, some chapters deal with latest instrumental techniques used for the study of microbes and Stromatolites. Other chapters have been contributed by young researchers who revealed updated data on Stromatolites. The astrobiological implications of early microbiota, sulfur isotopic ratios, microbialites in extreme conditions on earth has opened up new vistas in the search of extraterrestrial life.

Essentials of Ecology, 4th Edition - Michael Begon 2014-09-29

Essentials of Ecology presents introductory ecology in an accessible, state-of-the-art format designed to cultivate the novice student's understanding of, and fascination with, the natural world. This new edition has been updated throughout, with new, full-color illustrations, and comes with an accompanying website with downloadable illustrations, multiple-choice questions, and interactive models.