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The Marine Microbiome IWA Publishing
This book describes the state-of-the-art concerning the ‘marine microbiome’ and its uses in biotechnology. The first part discusses the diversity and ecology of marine microorganisms and viruses, including all three domains of life: Bacteria, Archaea, and Eukarya. It discusses whether marine microorganisms exist and, if so, why they might be unique. The second part presents selected marine habitats, their inhabitants and how they influence biogeochemical cycles, while the third discusses the utilization of marine microbial resources, including legal aspects, dissemination, and public awareness. The marine microbiome is the total of microorganisms and viruses in the ocean and seas and in any connected environment, including the seafloor and marine animals and plants. The diversity of microbial life remains unquantified and largely unknown, and could represent a hidden treasure for human society. Accordingly, this book is also intended to connect academics and industry, providing essential information for microbiologists from both fields.

Bibliographic Guide to Latin American Studies Springer
Contaminated land has been one of the last major environmental concerns to be taken seriously in the UK. It lags far behind air and water quality in terms of statutory and technical approach to control. However, the increasing focus on environmental safety by both government and the public means that land contamination is no longer an issue that need only be considered during redevelopment of abandoned or derelict sites. When land is contaminated it can affect human health, the environment and buildings and structures and can sometimes cause unacceptable risk. Good practice in the management of contaminated land involves assessment of the risk that the contamination might be posing. This training pack examines the risk assessment of contaminated land and explains the key elements of the necessary practices and procedures. It is intended to assist all practitioners to align their abilities at a common level so as to promote industry-wide consistency. The training course will be of particular benefit to geotechnical and environmental engineers, developers, regulators and lawyers, but the pack itself can be used by non-technical trainers.It includes delegate and facilitator notes for seven training modules, a copy of CIRIA C552 (2001), Contaminated land risk assessment. A guide to good practice, a PowerPoint presentation on floppy disc, and various group exercises.

Bibliography of Agriculture with Subject Index CRC Press
Biochemistry: The Chemical Reactions of Living Cells is a well-integrated, up-to-date reference for basic biochemistry, associated chemistry, and underlying biological phenomena. Biochemistry is a comprehensive account of the chemical basis of life, describing the amazingly complex structures of the compounds that make up cells, the forces that hold them together, and the chemical reactions that allow for recognition, signaling, and movement. This book contains information on the human body, its genome, and the action of muscles, eyes, and the brain. * Thousands of literature references provide introduction to current research as well as historical background * Contains twice the number of chapters of the first edition * Each chapter contains boxes of information on topics of general interest

Bibliography of Agriculture Academic Press
Discussing methods of enzyme purification, characterization, isolation, and identification, this book details the chemistry, behavior, and physicochemical properties of enzymes to control, enhance, or inhibit enzymatic activity for improved taste, texture, shelf-life, nutritional value, and process tolerance of foods and food products. The book cov

Biomolecular NMR Spectroscopy Springer
The 5th International Symposium on Microbial Growth on C Compounds was held at the Biological 1 Center of the University of Groningen, Haren, The Netherlands, 11-16 August 1986. The meeting attracted well over 200 participants from 15 countries. This volume contains the formal presentations made at that time, which, because of the breadth of topics covered, were divided into seven sections of related papers. This meeting, under the chairmanship of Wim Harder, was both scientifically and socially very successful. This success cannot only be credited to the main presentations, but also to the well cared for 121 poster presentations, whereof the abstracts have been published separately. The series of Symposia will be continued in 1989, in the Federal Republic of Germany. We wish to acknowledge the invaluable help of Joke Daniels, Roberta Stroer-Schneider, Karin Uyldert, Hansje Bartelson and Josine van Verseveld-Stroer, who retyped the manuscripts resulting in a uniform presentation of these proceedings.

Structure and Reactivity CRC Press
The Encyclopedia of Plant Physiology series has turned several times to the topic of photosynthesis. In the original series, two volumes edited by A. PIRSON and published in 1960 provided a broad overview of the entire field. Although the New Series has devoted three volumes to the same topic, the overall breadth of the coverage

has had to be restricted to allow for greater in-depth treatment of three major areas of modern photosynthesis research: I. Photosynthetic Elec tron Transport and Photophosphorylation (Volume 5 edited by A. TREBST and M. AvRON, and published in 1977); II. Photosynthetic Carbon Metabolism and Related Processes (Volume 6 edited by M. GIBBS and E. LATZKO, and published in 1979); and III. Photosynthetic Membranes and Light-Harvesting Systems (this volume). As we approached the organization of the current volume, we chose a set of topics for coverage that would complement the earlier volumes, as well as provide updates of areas that have seen major advances in recent years. In addition, we wanted to emphasize the following changes in the study of photo synthetic systems which have become increasingly important since 1977: the trend toward increased integration of biochemical and biophysical approaches to study photosynthetic membranes and light-harvesting systems, and a renewed appreciation of the structural parameters of membrane organization.

An Untapped Source of Biodiversity and Biotechnological Potential University Science Books

The European Union (EU) is a continuously evolving entity. Starting with six member states in the late 1950s, the EU currently encompasses fifteen states of Western Europe. It is expected to almost double in size in the near future, however, taking in a number of states located in Central and Eastern Europe, in addition to Cyprus and Malta. This dramatic increase has lead to an intensive debate on how the institutions of the EU should be adapted in order to cope with this growth. This book addresses the challenges that EU enlargement and institutional change imply for various policy fields, such as EU trade policy, agriculture and monetary policy in the framework of European economic and monetary union. It will be of interest to economists and political scientists seeking an up-to-date overview of institutional challenges facing the European Union

Biological Inorganic Chemistry Bibliography of AgricultureBibliography of Agriculture with Subject IndexSodium-NaK Engineering Handbook

First multi-year cumulation covers six years: 1965-70.

Photosynthesis III Cambridge University Press

Bioinorganic Chemistry of Copper focuses on the vital role of copper ions in biology, especially as an essential metalloenzyme cofactor. The book is highly interdisciplinary in its approach--the outstanding list of contributors includes coordination chemists, biochemists, biophysicists, and molecular biologists. Chapters are grouped into major areas of research interest in inorganic copper chemistry, spectroscopy, oxygen chemistry, biochemistry, and molecular biology. The book also discusses basic research of great potential importance to pharmaceutical scientists. This book is based on the first Johns Hopkins University Copper Symposium, held in August 1992. Researchers in chemistry, biochemistry, molecular biology, and medicinal chemistry will find it to be an essential reference on its subject.

Bioinorganic Chemistry of Copper Springer Science & Business Media

A guide to some 3,000 holidays, festivals, celebrations, commemorative days, feasts, and fasts held in countries around the world, as found in 26 well-known and widely held dictionaries, encyclopedias, and other reference works on special days and observances. The main text is an alphabetical arrangement of events by name. Entries may include name of event, person or event named for or honored, location, ethnic or religious group, date established, date of observance, and sources with page numbers. Also included is a section explaining the different calendars of the world and tables of state and national public holidays. An annotated bibliography lists a wide range of books for all ages. Ethnic and geographic, name, religion, and chronological indexes follow the main index. Annotation copyright by Book News, Inc., Portland, OR

World wide edition CRC Press

This book presents a review and in-depth analyses of improved biotechnological processes emphasizing critical aspects and challenges of lignocellulosic biomass conversion into biofuels and value-added products especially using extremophiles and recombinant microorganisms. The book specifically comprises extremophilic production of liquid and gaseous biofuels (bioethanol, biobutanol, biodiesel, biohydrogen, and biogas) as well as value added products (e.g. single cell protein, hydrocarbons, lipids, exopolysaccharides, and polyhydroxyalkanoates). The book also provides the knowledge on how to develop safe, more efficient, sustainable, and economical integrated processes for enhanced conversion of lignocellulosic feedstocks to liquid and gaseous biofuels. Finally the book describes how to perform the techno-economical and life-cycle assessments of new integrated processes involving extremophiles. These modeling exercises are critical in addressing any deficiencies associated with the demonstration of an integrated biofuels and value-added products production process at pilot scale as well as demonstration on the commercialization scale.

Institutional Challenges in the European Union Omnigraphics Incorporated

An Introduction that describes the origin of cytochrome notation also connects to the history of the field, focusing on research in England in the pre-World War II era. The start of the modern era of studies on structure-function of cytochromes and energy-transducing membrane proteins was marked by the 1988 Nobel Prize in Chemistry, given to J. Deisenhofer, H. Michel, and R. Huber for determination of the crystal structure of the bacterial photosynthetic reaction center. An ab initio logic of presentation in the book discusses the evolution of cytochromes and hemes, followed by theoretical perspectives on electron transfer in proteins and specifically in cytochromes. There is an extensive description of the molecular structures of cytochromes and cytochrome complexes from eukaryotic and prokaryotic sources, bacterial, plant and animal. The presentation of atomic structure information has a major role in these discussions, and makes an important contribution to the broad field of membrane protein structure-function.

Adaption of Microbial Life to Environmental Extremes Springer

Part A.: Overviews of biological inorganic chemistry : 1. Bioinorganic chemistry and the biogeochemical cycles -- 2. Metal ions and proteins: binding, stability, and folding -- 3. Special cofactors and metal clusters -- 4. Transport and storage of metal ions in biology -- 5. Biominerals and biomineralization -- 6. Metals in medicine. -- Part B.: Metal ion containing biological systems : 1. Metal ion transport and storage -- 2. Hydrolytic chemistry -- 3. Electron transfer, respiration, and photosynthesis -- 4. Oxygen metabolism -- 5. Hydrogen, carbon, and sulfur metabolism -- 6. Metalloenzymes with radical intermediates -- 7. Metal ion receptors and signaling. -- Cell biology, biochemistry, and evolution: Tutorial I. -- Fundamentals of coordination chemistry: Tutorial II.

Handbook of Food Enzymology Springer Science & Business Media

Presents an introduction to Objective-C, covering such topics as classes and objects, data types, program looping, inheritance, polymorphism, variables, memory management, and archiving.

Cumulated Index Medicus Springer Science & Business Media

Nuclear Magnetic Resonance (NMR) spectroscopy is the most powerful technique for characterization of biomolecular structures at atomic resolution in the solution state. This timely book, entitled "Biomolecular NMR Spectroscopy," focuses on the latest state-of-the-art NMR techniques for characterization of biological macromolecules in the solid and solution state. The editors, Dr. Andrew Dingley (University of Auckland, New Zealand) and Dr. Steven Pascal (Massey University, New Zealand) have organized the book into four sections, covering the following topics: sample preparation, structure and dynamics of proteins, structure and dynamics of nucleic acids and protein-nucleic acid complexes, and rapid and hybrid techniques--

The Chemical Reactions of Living Cells Springer Science & Business Media

An Invaluable Reference for Members of the Drilling Industry, from Owner–Operators to Large Contractors, and Anyone Interested In Drilling Developed by one of the world’s leading authorities on drilling technology, the fifth edition of The Drilling Manual draws on industry expertise to provide the latest drilling methods, safety, risk management, and management practices, and protocols. Utilizing state-of-the-art technology and techniques, this edition thoroughly updates the fourth edition and introduces entirely new topics. It includes new coverage on occupational health and safety, adds new sections on coal seam gas, sonic and coil tube drilling, sonic drilling,

Dutch cone probing, in hole water or mud hammer drilling, pile top drilling, types of grouting, and improved sections on drilling equipment and maintenance. New sections on drilling applications include underground blast hole drilling, coal seam gas drilling (including well control), trenchless technology and geothermal drilling. It contains heavily illustrated chapters that clearly convey the material. This manual incorporates forward-thinking technology and details good industry practice for the following sectors of the drilling industry: Blast Hole Environmental Foundation/Construction Geotechnical Geothermal Mineral Exploration Mineral Production and Development Oil and Gas: On-shore Seismic Trenchless Technology Water Well The Drilling Manual, Fifth Edition provides you with the most thorough information about the "what," "how," and "why" of drilling. An ideal resource for drilling personnel, hydrologists, environmental engineers, and scientists interested in subsurface conditions, it covers drilling machinery, methods, applications, management, safety, geology, and other related issues.

Extremophilic Microbial Processing of Lignocellulosic Feedstocks to Biofuels, Value-Added Products, and Usable Power Pearson Education

The basic information supervisors and managers in Iowa state government need to carry out their personnel responsibilities.

Contaminated Land Risk Assessment: Training Pack New Age International

This entirely updated second edition provides an overview on the biology, ecology and biodiversity of extremophiles. Unusual and less explored ecosystems inhabited by extremophiles such as marine hypersaline deeps, extreme cold, desert sands, and man-made clean rooms for spacecraft assembly are presented. An additional focus is put on the role of these highly specialized microorganism in applied research fields, ranging from biotechnology and nanotechnology to astrobiology. Examples such as novel psychrophilic enzymes, compounds from halophiles, and detection strategies for potential extraterrestrial life forms are discussed in detail. The book addresses researchers and advanced students in the fields of microbiology, microbial ecology and biotechnology.

A Resource Guide for Personnel Information & Decisions Springer Science & Business Media

Recent determination of genome sequences for a wide range of bacteria has made in-depth knowledge of prokaryotic metabolic function essential in order to give biochemical, physiological, and ecological meaning to the genomic information. Clearly describing the important metabolic processes that occur in prokaryotes under different conditions and in different environments, this advanced text provides an overview of the key cellular processes that determine bacterial roles in the environment, biotechnology, and human health. Prokaryotic structure is described as well as the means by which nutrients are transported into cells across membranes. Glucose metabolism through glycolysis and the TCA cycle are discussed, as well as other trophic variations found in prokaryotes, including the use of organic compounds, anaerobic fermentation, anaerobic respiratory processes, and photosynthesis. The regulation of metabolism through control of gene expression and control of the activity of enzymes is also covered, as well as survival mechanisms used under starvation conditions.

A Textbook of Bioenergetics Routledge

Phosphorus in Environmental Technology: Principles and Applications provides a definitive and detailed presentation of state-of-the-art knowledge on the environmental behaviour of phosphorus and its applications to the treatment of waters and soils.