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The Book of GNS3 Academic Press

The Handbook of Microalgae-based Processes and Products provides a complete overview of all aspects involved in the production and utilization of microalgae resources at commercial scale. Divided into four parts (fundamentals, microalgae-based processes, microalgae-based products, and engineering approaches applied

to microalgal processes and products), the book explores the microbiology and metabolic aspects of microalgae, microalgal production systems, wastewater treatment based in microalgae, CO2 capture using microalgae, microalgae harvesting techniques, and extraction and purification of biomolecules from microalgae. It covers the largest number of microalgal products of commercial relevance, including biogas, biodiesel, bioethanol, biohydrogen, single-cell protein, single-cell oil, biofertilizers, pigments, polyunsaturated fatty acids, bioactive proteins, peptides and amino acids, bioactive polysaccharides, sterols, bioplastics, UV-screening compounds, and volatile organic compounds. Moreover, it presents and discusses the available engineering tools applied to microalgae biotechnology, such as process integration, process intensification, and techno-economic analysis applied to microalgal processes and products, microalgal biorefineries, life cycle assessment, and exergy analysis of microalgae-based processes and products. The coverage of a broad range of potential microalgae processes and products in a single volume makes this handbook an indispensable reference for

engineering researchers in academia and industry in the fields of bioenergy, sustainable development, and high-value compounds from biomass, as well as graduate students exploring those areas. Engineering professionals in bio-based industries will also find valuable information here when planning or implementing the use of microalgal technologies. - Covers theoretical background information and results of recent research. - Discusses all commercially relevant microalgae-based processes and products. - Explores the main emerging engineering tools applied to microalgae processes, including techno-economic analysis, process integration, process intensification, life cycle assessment, and exergy analyses.

Saline Lakes BoD – Books on Demand Reprint of the original, first published in 1882.

A Concise Guide to Market Research

Paraclete 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

The field of additive manufacturing has seen explosive growth in recent years due largely in part to renewed interest from the manufacturing sector. Conceptually, additive manufacturing, or industrial 3D printing, is a way to build parts without using any part-specific tooling or dies from the computer-aided design (CAD) file of the part. Today, mo

Advanced Everyday English Springer Nature

Biosensors offer clear and distinct advantages over standard analytical methods for the direct monitoring of environmental pollutants in the field, such as real-time detection with minimum sample preparation and handling. The present book highlights recent advantages that will be of great value to a range of scientists, researchers and students dealing with analytical and environmental

chemistry and biosensor technology. It presents recent trends in analytical methodology for the determination of indoor and outdoor pollutants, advances in DNA, biological and recognition-based sensors, examples of biosensors for use in field and water analysis, biosensors based on non-aqueous systems, and recent advances in the miniaturisation and micromachining of biosensors.

Handbook of Microalgae-Based Processes and Products Springer Science & Business Media

Cyanobacteria have existed for 3.5 billion years, yet they are still the most important photosynthetic organisms on the planet for cycling carbon and nitrogen. The ecosystems where they have key roles range from the warmer oceans to many Antarctic sites. They also include dense nuisance growths in nutrient-rich lakes and nitrogen-fixers which aid the fertility of rice-fields and many soils, especially the biological soil crusts of arid regions. Molecular biology has in recent years provided major advances in our understanding of cyanobacterial ecology. Perhaps for more than any other group of organisms, it is possible to see how the ecology, physiology, biochemistry, ultrastructure and molecular biology interact. This all helps to deal with practical problems such as the control of nuisance blooms and the use of cyanobacterial inocula to manage semi-desert soils. Large-scale culture of several organisms, especially "Spirulina" (Arthrospira), for health food and specialist products is increasingly being expanded for a much wider range of uses. In view of their probable contribution to past oil deposits, much attention is currently focused on their

potential as a source of biofuel. Please visit http://extras.springer.com/ to view Extra Materials belonging to this volume. This book complements the highly successful Ecology of Cyanobacteria and integrates the discoveries of the past twelve years with the older literature.

Bioenergetics

Springer

Fundamentals of 5G Mobile Networks provides an overview of the key features of the 5th Generation (5G) mobile networks, discussing the motivation for 5G and the main challenges in developing this new technology. This book provides an insight into the key areas of research that will define this new system technology paving the path towards future research and development. The book is multi-disciplinary in nature, and aims to cover a whole host of intertwined subjects that will predominantly influence the 5G landscape, including the future Internet, cloud computing, small cells and self-organizing networks (SONs), cooperative communications, dynamic spectrum management and cognitive radio, Bro adcast-Broadband convergence , 5G security challenge, and green RF. This book aims to be the first of its kind towards painting a holistic perspective on 5G Mobile, allowing 5G stakeholders to capture key technology trends on different layering domains and to identify potential inter-disciplinary design aspects that need to be solved in order to deliver a 5G Mobile system that operates seamlessly.

The EACVI Echo Handbook

Springer Science & Business Media This book presents a comprehensive overview and analysis of mangrove ecological processes, structure, and function at the local, biogeographic, and global scales and how these properties interact to provide key ecosystem services to society. The analysis is based on an international collaborative effort that focuses on regions and countries holding the largest mangrove resources and encompasses the major biogeographic and socio-economic settings of mangrove distribution. Given the economic and ecological importance of mangrove wetlands at the global scale, the chapters aim to integrate ecological and socio-economic perspectives on mangrove function and management using a system-level hierarchical analysis framework. The book explores the nexus between mangrove ecology and the capacity for ecosystem services, with an emphasis on thresholds, multiple stressors, and local conditions that determine this capacity. The interdisciplinary approach and illustrative study cases included in the book will provide valuable resources in data, information, and knowledge about the current status of one of the most productive coastal ecosystem in the world. *Advances in Communication Systems and Networks* Springer Science & Business Media "Maps to Microsoft Office Specialist

(MOS) exam objectives for Excel 2013. Realistic, hands-on exercises. Downloadable ancillaries at 30bird.com"--Cover.

Unearthly Disclosure Univ of California Press

This accessible, practice-oriented and compact text provides a hands-on introduction to market research. Using the market research process as a framework, it explains how to collect and describe data and presents the most important and frequently used quantitative analysis techniques, such as ANOVA, regression analysis, factor analysis and cluster analysis. The book describes the theoretical choices a market researcher has to make with regard to each technique, discusses how these are converted into actions in IBM SPSS version 22 and how to interpret the output. Each chapter concludes with a case study that illustrates the process using real-world data. A comprehensive Web appendix includes additional analysis techniques, datasets, video files and case studies. Tags in the text allow readers to quickly access Web content with their mobile device. The new edition features: Stronger emphasis on the gathering and analysis of secondary data (e.g., internet and social networking data) New material on data description (e.g., outlier detection and missing value analysis) Improved use of educational elements such as learning objectives, keywords, self-assessment tests, case studies, and much more Streamlined and simplified coverage of the data analysis techniques with more rules-of-thumb Uses IBM SPSS version 22

Introduction to Attic Greek Random House Publications from 7th International Conference on Salt Lakes, held in Death Valley National Park, California, USA, September 1999

Dark Thirst No Starch Press

Thoroughly revised and expanded, Introduction to Attic Greek, 2nd Edition gives student and instructors the most

comprehensive and accessible presentation of ancient Greek available. The text features: • Full exposure to the grammar and morphology that students will encounter in actual texts • Self-contained instructional chapters, with challenging, carefully tailored exercises • Progressively more complex chapters to build the student's knowledge of declensions, tenses, and constructions by alternating emphasis on morphology and syntax • Readings based on actual texts and include unadapted passages from Xenophon, Lysias, Plato, Aristophanes, and Thucydides. • Concise introduction to the history of the Greek language • Composite list of verbs with principal parts, and an appendix of all paradigms • Greek-English and English-Greek glossaries Additional Resources: • Robust online supplements for teaching and learning available at atticgreek.org • Answer Key to exercises also available from UC Press (978-0-520-27574-4)

Azolla Utilization

Kensington Books

Columba Marmion believes that Christian discipleship means imitating Christ the Monk no matter your walk or way of life. Christ is the divine model presented by God himself , the ideal of all holiness. By faith, we accept this holiness into our lives—but we must also allow Christ Jesus to become “ the very life of our souls. ” This book, an abridged edition of the original, explores how this is possible by examining the writings of St. Paul and St. John in the light of the Gospels and, offering spiritual understanding to any Christian ’ s religious life. Christ, the Ideal of the Monk sold 100,000 copies when it was published 90 years ago, one of many bestselling books written by the popular Irish-born monk, Columba

Marmion, OSB, (1858-1923). He was beatified by Pope John Paul II in 2000.

Fundamentals of 5G Mobile Networks Springer

Trace metals occur as natural constituents of the earth's crust, and are ever present constituents of soils, natural waters and living matter. The biological significance of this disparate assemblage of elements has gradually been uncovered during the twentieth century; the resultant picture is one of ever-increasing complexity. Several of these elements have been demonstrated to be essential to the functions of living organisms, others appear to only interact with living matter in a toxic manner, whilst an ever-decreasing number do not fall conveniently into either category. When the interactions between trace metals and plants are considered, one must take full account of the known chemical properties of each element. Consideration must be given to differences in chemical reactivity, solubility and to interactions with other inorganic and organic molecules. A clear understanding of the basic chemical properties of an element of interest is an essential pre-requisite to any subsequent consideration of its biological significance. Due consideration to basic chemical considerations is a theme which runs through the collection of chapters in both volumes.

Allelopathy Springer Science & Business Media

Iron is a major constituent of the

earth crust. However, under alkaline conditions commonly found in arid and semi-arid environments iron becomes unavailable to plants. When plants are affected by a shortage of iron their leaves become yellow (chlorotic), and both plant growth and crop yield are reduced. The roots of plants affected by iron deficiency may develop a series of responses directed to improve iron uptake, such as increased proton excretion and iron reduction capabilities or excretion of iron chela tors called siderophores. Iron deficiency affects major crops worldwide, including some of major economic importance such as fruit trees and others. Correction of iron deficiency is usually implemented through costly application of synthetic chelates. Since these correction methods are very expensive, the competitivity of farmers is often reduced and iron deficiency may become a limiting factor for the maintenance, introduction or expansion of some crops. In spite of the many years devoted to the study of iron deficiency, the knowledge of iron deficiency in soils and plants is still fragmentary in many aspects. We have only incomplete information on the processes at the molecular level that make some plant species and cultivars unable to take and utilize iron from the soil, whereas other plants grow satisfactorily under the same conditions.

Biosensors for Direct Monitoring of Environmental Pollutants in Field

Int. Rice Res. Inst.

Principles of Chemical Engineering Processes: Material and Energy Balances introduces the basic principles and calculation techniques used in the field of chemical engineering, providing a solid understanding of the fundamentals of the application of material and energy balances. Packed with illustrative examples and case studies, this book: Discusses problems in material and

energy balances related to chemical reactors Explains the concepts of dimensions, units, psychrometry, steam properties, and conservation of mass and energy Demonstrates how MATLAB ® and Simulink ® can be used to solve complicated problems of material and energy balances Shows how to solve steady-state and transient mass and energy balance problems involving multiple-unit processes and recycle, bypass, and purge streams Develops quantitative problem-solving skills, specifically the ability to think quantitatively (including numbers and units), the ability to translate words into diagrams and mathematical expressions, the ability to use common sense to interpret vague and ambiguous language in problem statements, and the ability to make judicious use of approximations and reasonable assumptions to simplify problems This Second Edition has been updated based upon feedback from professors and students. It features a new chapter related to single- and multiphase systems and contains additional solved examples and homework problems. Educational software, downloadable exercises, and a solutions manual are available with qualifying course adoption.

The Species Directory of the Marine Fauna and Flora of the British Isles and Surrounding Seas Springer Science & Business Media

Algae, generally held as the principal primary producers of aquatic systems, inhabit all conceivable habitats. They have great ability to cope with a harsh environment, e.g. extremely high and low temperatures, suboptimal and supraoptimal light intensities, low availability of essential nutrients and other resources, and high

concentrations of toxic chemicals, etc. A multitude of physiological, biochemical, and molecular strategies enable them to survive and grow in stressful habitats. This book presents a critical account of various mechanisms of stress tolerance in algae, many of which may occur in microbes and plants as well.

Introduction to Biophotonics Springer Science & Business Media

When she encounters Brandon Noble, a man from her past who harbors a horrifying secret, cop Angelina Jones falls in love with this tormented soul who vows to protect her from his enemies and his own dark thirst. Original.

The A.R.R.L. Antenna Book Springer Science & Business Media

This book closes the gap for beginners who want to study the Amharic language and had difficulties in finding the right grammar for this purpose: The first grammar of Amharic, the national language of Ethiopia, was published by Hiob Ludolf in 1698. The Amharic grammar published by Praetorius in 1879 is based on Amharic religious texts and on scattered material, usually composed by missionaries. A milestone in the study of Amharic is Marcel Cohen's Traite de langue amharique (1936), but this grammar, too is not completely suited for beginners since the author's generalizations are at times aimed at linguists. The grammar that comes closest to the concept of a beginner's grammar is that of C.H. Dawkin (1960), yet this grammar is extremely short, does not give examples and does not introduce the student to the intricacies of the language.The new book gives all the grammatical forms and the sentences of the present grammar in Amharic script and in phonetic transcription. The illustrative examples have a free and a literal translation. This procedure should likewise prove to be useful for the Semitist as well as for the general linguist.

Additive Manufacturing Springer Nature

Carotenoids are of great interest due to

their essential biological functions in both plants and animals. However, the properties and functions of carotenoids in natural systems are surprisingly complex. With an emphasis on the chemical aspects of these compounds, Carotenoids: Physical, Chemical, and Biological Functions and Properties presents a b