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NATO's New Strategic Concept. A Comprehensive Assessment Sten Rynning 2011

Handbook of Microalgae-Based Processes and Products Eduardo Jacob-Lopes 2020-07-23 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.

Encyclopedia of Lubricants and Lubrication Theo Mang 2014-01-22 The importance of lubricants in virtually all fields of the engineering industry is reflected by an increasing scientific research of the basic principles. Energy efficiency and material saving are just two core objectives of the employment of high-tech lubricants. The encyclopedia presents a comprehensive overview of the current state of knowledge in the realm of lubrication. All the aspects of fundamental data, underlying concepts and use cases, as well as theoretical research and last but not least terminology are covered in hundreds of essays and definitions, authored by experts in their respective fields, from industry and academic institutes.

China and the Global Economy P. Nolan 2001-05-09 This book tells the story of China's emergence as a major economic power and the huge impact this will have on world business. Over the last five years Peter Nolan has conducted a major investigation into Chinese industry, its economic structure, and the opportunities for growth in the future. As one of just four world experts invited by the Chinese Government to consult on their application to join the World Trade Organisation he has worked closely with the heads of Chinese industry and with many foreign multinationals operating in China. China and the Global Economy is an executive summary of the opportunities for business in one of the largest markets in the world, by one passionate about its possibilities for the future.

World Encyclopedia of Political Systems And Parties Schlager Group Inc. 2006 Describes systems of government and their organization, opposition parties, and history for each of the world's nations.

The Foreign Policy of the European Union Federiga M. Bindi 2012 "Explores European foreign policy and the degree of European Union success in proposing itself as a valid international actor, drawing from the expertise of scholars and practitioners in many disciplines. Addresses issues past and present, theoretical and practice-oriented, and country- and region-specific"--

Handbook on CSDP Jochen Rehr 2017 The handbook on CSDP gives a comprehensive overview of the state of affairs of the Common Security and Defence Policy of the European Union in 2017. Nine chapters and 35 articles cover the full spectrum of our Common Security and Defence Policy. The handbook is designed for 'students' of the European Security and Defence College. 36 authors, half of them coming from the EU institutions, the other half from academia, described in an open and frank manner the current challenges and possible ways forward.

Networking Communication and Data Knowledge Engineering Gregorio Martinez Perez 2017-11-02 Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25-26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

Interlibrary Loan Policy National Library of Medicine (U.S.) 1991

Prokaryotic Cell Wall Compounds Helmut König 2010-03-18 Microbial cell wall structures play a significant role in maintaining cells' shape, as protecting layers against harmful agents, in cell adhesion and in positive and negative biological activities with host cells. All prokaryotes, whether they are bacteria or archaea, rely on their surface polymers for these multiple functions. Their surfaces serve as the indispensable primary interfaces between the cell and its surroundings, often mediating or catalyzing important interactions. Prokaryotic Cell Wall Compounds summarizes the current state of knowledge on the prokaryotic cell wall. Topics concerning bacterial and archaeal polymeric cell wall structures, biological activities, growth and inhibition, cell wall interactions and the applications of cell wall components, especially in the field of nanobiotechnology, are presented.

EMT-Basic Exam 2 2002 Take the EMT-Basic Written Exam with confidence, so you can embark upon a rewarding career in the Emergency Medical Services. This online practice test will help you achieve the score you need.

Yearbook of International Organizations Union of International Associations 1981-12

Teledentistry Sajeesh Kumar 2014-09-10 Teledentistry is of growing interest to the healthcare world. Over the last few years, momentum is growing in research and service in Teledentistry - mostly carried out by tertiary medical institutes across the world. While Teledentistry is advanced in some sub-specialties, it has high potential to receive more attention from general communities, dentists, dental hygienists, physicians, nurses, researchers and students. For the first time, this book will present essential knowledge from experts in this field. They will discuss the current status of technology and service in various Teledentistry sub specialties and its future implications. Written by experts from around the globe, (i.e., from USA, Europe, Australia and Asia), this book presents technical issues and clinical applications. It includes collective experiences from dental service providers in different parts of the world practicing a wide range of Teledentistry applications. This book lays the foundations for the globalization of Teledentistry procedures, making it possible for dental service to be delivered anywhere in the world.

Innovation in the Community College Terry O'Banion 1989 A renaissance of innovation is taking place in America's community colleges. This book documents and analyzes stimulating changes that have marked the 1980s and points the way to new practices and structures that will continue to invigorate the community colleges during the 1990s. The 13 chapters offer a rich selection of possibilities for the future of the community college. Here are tested ideas and programs that make the community college such an important force in our changing society--the practices that serve students more fully, support faculty more effectively, and reach the community more extensively.

Quantum Mechanical Electronic Structure Calculations with Chemical Accuracy S. Langhoff 2012-12-06 The principal focus of this volume is to illustrate the level of accuracy currently achievable by ab initio quantum chemical calculations. While new developments in theory are discussed to some extent, the major emphasis is on a comparison of calculated properties with experiment. This focus is similar to the one taken in a book, Comparison of Ab Initio Quantum Chemistry with Experiment for Small Molecules, edited by Rodney Bartlett (Reidel, 1984). However, the phenomenal improvement in both theoretical methods and computer architecture have made it possible to obtain accurate results for rather large molecular systems. This is perhaps best illustrated in this volume by the chapter entitled 'Spectroscopy of Large Organic Molecules' by Bjorn Roos and coworkers. For example, the electronic spectra of the nucleic acid base monomer structures shown on the front cover have been obtained using a fully correlated ab initio study. For researchers, teachers and students in chemistry and physics.

Plant-Growth-Promoting Rhizobacteria (PGPR) and Medicinal Plants Dilfuza Egamberdieva 2015-02-07 This book describes the various applications of microorganisms in improving plant growth, health and the efficiency of phytochemical production. The chapters trace topics such as the role of PGPRs in improving salt stress and heavy metal tolerance in plants; the prevention and control of plant diseases; boosting soil fertility and agriculture productivity; the induction of secondary metabolite biosynthesis in medicinal and aromatic plants; the enhancement of phytochemical levels, and the action mechanisms, diversity and characterization of PGPRs. The reviews will be of interest for scientists in the fields of agriculture, microbiology, soil biology, plant breeding and herbal medicinal products.

College Transfer Success Donna Housman 2014-07-01

Computer Networks and Information Technologies Vinu V Das 2011-03-15 This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication, Network, and Computing, CNC 2011, held in Bangalore, India, in March 2011. The 41 revised full papers, presented together with 50 short papers and 39 poster papers, were carefully reviewed and selected for inclusion in the book. The papers feature current research in the field of Information Technology, Networks, Computational Engineering, Computer and Telecommunication Technology, ranging from theoretical and methodological issues to advanced applications.

Heat Pump Fundamentals J. Berghmans 2012-12-06 This book contains the texts of the lectures which were given at the Nato Advanced Study Institute on Advanced Heat Pumps which was held at Espinho, Portugal in September 1980. A previous NATO Advanced Study Institute on the topic of heat pumps had been held in 1975. The significance of heat pumps with respect to energy conservation was the main topic of this Institute. In 1980 it was felt that considerable research had to be done in order to be able to produce more energy efficient, less costly and more widely applicable heat pumps. This requires a good understanding of the functioning of the types of heat pumps available. The simultaneous coverage of the basic fundamentals of heat pumps of different drive in one lecture series therefore was the goal of the 1980 Advanced Study Institute. Only a few lectures were devoted to heat pump applications. The lectures on heat pump applications were intended to give only a short overview. They were supplemented by lectures on the latest developments on vapour compression as well as sorption systems.

Fundamentals of Mobile Heavy Equipment Tasksheet Manual Cdx Automotive 2021-04-14 Fundamentals of Mobile Heavy Equipment provides students with a thorough introduction to the diagnosis, repair, and maintenance of off-road mobile heavy equipment. With comprehensive, up-to-date coverage of the latest technology in the field, it addresses the equipment used in construction, agricultural, forestry, and mining industries. This Tasksheet Manual is designed to guide students and apprentices through the tasks necessary to meet AED Foundation's requirements for Construction Equipment Technology certification. Based on the AED's November 2017 Ninth Edition, this manual will assist students in demonstrating hands-on performance of the skills necessary for initial training to be equipment service technicians. It can also serve as a personal portfolio of documented experience for prospective employment. Organized by the six Foundation Standard areas, companion tasks are grouped together and clearly labeled with CDX Tasksheet number and AED Reference numbers to help students work efficiently and easily manage responsibilities. KEY FEATURES A list of the required and recommended materials and equipment for each task Critical safety considerations relevant to each task Time Card feature to allow students to track the time they spend on each task Performance rating and instructor sign-off for each task A correlation guide cross-referencing the tasks with their AED Accreditation Standard task numbers DYNAMIC TECHNOLOGY SOLUTIONS This text fully aligns with CDX Online Access for the Fundamentals of Mobile Heavy Equipment training program. With an easy-to-use interface and seamless integration with this resource, the online learning system reinforces key topics and expands upon core concepts to provide an interactive e-learning experience. Online resources include: A media gallery with hundreds of videos 200+ interactive animations Sophisticated reporting on student progress Improved Tasksheet management Mobile-ready course materials

Policy-making in the European Union Director Sussex European Institute and Professor of Contemporary European Studies Helen Wallace 1996 This is a fully revised edition of a well-established text for students. It offers an invaluable and up-to-date interpretation of the European policy process. Helen Wallace and William Wallace have assembled a team of internationally-renowned authors to present fourteen case studies --ranging from analyses of the CAP and environmental policy, to the politics of Economic and Monetary Union and the new World Trade Organisation. Helen Wallace also provides, in the two opening chapters, an introduction and overview of European politics, policy, and institutions. In concluding the volume, William Wallace reflects on the future for the EU as it faces calls for ever closer political integration. Policy-Making in the European Union provides the student with a timely and provocative insight into European integration in a period of critical change.

Bioenergetic Processes of Cyanobacteria Guenter A. Peschek 2011-05-26 This publication is unique among a number of books on cyanobacteria because it focuses on the bioenergetics of these widespread organisms which are the evolutionary prerequisite for the development of all higher forms of life on our "blue" planet. The book primarily addresses questions of energy conversion by the fundamental bioenergetic processes: (oxygenic) photosynthesis, (aerobic) respiration, and (anaerobic) fermentation which uniquely occur together in these prokaryotic cells. Thermophilic cyanobacteria offer the most suitable material for high resolution structure analyses of Photosystem I and II and other electron transport complexes by X-ray crystallography (for example, at present the structure of Photosystem II at atomic resolution is only known for these organisms). These achievements during the last decade represent a milestone in our understanding of the complexes which are crucial for solar energy exploitation through photosynthetic water splitting. The present work represents an ambitious attempt to achieve the goal of a synoptic state-of-the-art picture by casting together the mosaics of detailed knowledge described by leading experts in the field. It contains 24 chapters written by 35 authors from Europe, USA, India and Japan. The book is aimed at reaching a broad audience ranging from students to experienced scientists. The editors wish all readers a pleasant and stimulating journey through the fascinating "world" of the bioenergetics of cyanobacteria and sincerely hope that this book will not only be of great value for the experts but also entice young people into this exciting research area with the aim to address successfully the challenging problems of high relevance that are still waiting for a satisfactory answer.

Collective Management of Copyright and Related Rights - Brochure World Intellectual Property Organization 2000

z/OS Version 1 Release 12 Implementation Paul Rogers 2011-04-27 This IBM® Redbooks® publication describes changes in installation and migration when migrating from a current z/OS® V1R10 and z/OS V1R11 to z/OS V1R12. Also described are tasks to prepare for the installation of z/OS V1R12, including ensuring that driving system and target system requirements are met, and coexistence requirements are satisfied. New migration actions are introduced in z/OS V1R12. This book focuses on identifying some of the new migration actions that must be performed for selected elements when migrating to z/OS V1R12. This book describes the following enhancements: z/OS V1R12 installation, HiperDispatch, System Logger,

Auto-reply to WTORs, Real Storage Manager (RSM) DFSMS, DFSORT, Services aids, z/OS Infoprint Server, TSO/E, RMFTM, Language Environment®, BCP allocation XML System Services, z/OS UNIX® System Services, BCP supervisor, Extended Address Volumes HyperSwap®, BCPii, (de)ciphering, Predictive Failure Analysis, C language, Hardware instrumentation services FICON® dynamic channel-path management, Workload Manager, SDSF, JES2, JES3, SMF, GRS, XCF, HCD Unicode, Capacity provisioning, RRS, Parallel subsystems initialization z/OS Management Facility (z/OSMF)

Preparative Chromatography Techniques K. Hostettmann 2013-03-14 Over the past few years, increasing attention has been paid to the search for bioactive compounds from natural sources. The success of plant-derived products such as paclitaxel (Taxol) in tumor therapy or artemisinin in the treatment of malaria has provided the impetus for the introduction of numerous research programmes, especially in industry. A great deal of effort is being expended in the generation of novel lead molecules of vegetable, marine and microbial origin by the use of high throughput screening protocols. When interesting hits are found, it is essential to have methods available for the rapid isolation of target compounds. For this reason, both industry and academia need efficient preparative chromatographic separation techniques and experience in their application. Purified natural products are required for complete spectroscopic identification and full characterization of new compounds, for biological testing and for the supply of pharmaceuticals, standards, and starting materials for synthetic work. Obtaining pure products from an extract can be a very long, tedious and expensive undertaking, involving many steps. Sometimes only minute amounts of the desired compounds are at hand and these entities may be labile. Thus it is an advantage to have access to as many different methods as possible in order to aid the isolation process. Although a certain amount of trial and error may be involved, nowadays there is the possibility of devising suitable rapid separation schemes by a judicious choice of the different techniques available.

Handbook of Thermal Analysis and Calorimetry Michael E. Brown 2003-12-22 This is the second volume of a four volume set intended to describe the techniques and applications of thermoanalytical and calorimetric methods. The general techniques and methodology are covered extensively in Volume 1, along with the fundamental physicochemical background needed. Consequently the subsequent volumes dwell on the applications of these powerful and versatile methods, while assuming a familiarity with the techniques. Volume 2 covers major areas of inorganic materials and some related general topics, e.g., catalysis, geochemistry, and the preservation of art. The chapters are written by established practitioners in the field with the intent of presenting a sampling of the how thermoanalytical and calorimetric methods have contributed to progress in their respective areas. The chapters are not intended as exhaustive reviews of the topics, but rather, to illustrate to the readers what has been achieved and to encourage them to consider extending these applications further into their domains of interest. - Provides an appreciation for how thermal methods can be applied to inorganic materials and processes. - Provides an insight into the versatility of thermal methods. - Shares the experiences of experts in a variety of different fields. - A valuable reference source covering a huge area of materials coverage.

Attacking the Double Burden of Malnutrition in Asia and the Pacific Stuart R. Gillespie 2001

Extremophiles in Eurasian Ecosystems: Ecology, Diversity, and Applications Dilfuza Egamberdieva 2018-07-26 This book explores various aspects of thermophilic and halophilic microbes from Eurasian ecosystems, which have proved to offer a unique reservoir of genetic diversity and biological source of extremophiles. It also covers the biotechnological uses of extremophiles, and their potential use in agricultural and industrial applications. The topics addressed include but are not limited to: diversity and microbial ecology, microbe-environment interactions, adaptation and evolution, element cycling and biotechnological applications of thermophiles and halophiles in Eurasian ecosystems. In order to review the progress made in biology and biotechnological applications of thermophiles and halophiles, the book combines review papers and results of original research from various specialists and authorities in the field. It includes several chapters describing the microbial diversity and ecology of geothermal springs distributed among the territory of various Eurasian countries, such as Armenia, Bulgaria, China, Georgia, India, Italy, Pakistan and Turkey. A dedicated chapter discusses selected aspects of thermophilic chemolithotrophic bacteria isolated from mining sites (sulfide ores); detailed descriptions of various thermophile microbes isolated from high-temperature environments and their biotechnological potential are also provided. Subsequent chapters describe the diversity and ecology of halophilic microbes harbored in saline and hypersaline lakes in Iran, Turkey and China; soil and plant microbiomes in saline arid lands of Uzbekistan; microbial diversity in Asian deserts; and the potential applications of thermophilic and halophilic microbes as exopolysaccharide (EPS) producers, focusing on the chemistry and applications of the EPS they produce. We hope that this book will prove valuable as an up-to-date overview of the current state of research on Eurasian extremophiles in general and thermophiles and halophiles in particular. Many questions remain unanswered, and we hope that it will stimulate further studies in this intriguing and promising field.

Media, Journalism and Communication Vincent Fields 2020-09-08 The communication tools and outlets used for storing and delivering information are known as media. Some of its different types are print media, publishing, news media and broadcasting. The production as well as distribution of reports using different media is known as journalism. It generally serves as a fourth estate, providing opinions and critique on social issues as well as government policies. There are numerous forms of journalism such as gonzo journalism, sensor journalism and yellow journalism. Gonzo journalism makes use of a subjective and personalized style of reporting. Sensor journalism refers to the practice of using sensors to support journalistic enquiry. The writings which emphasize rumors and exaggerated claims are often termed as

yellow journalism. This book elucidates the concepts and innovative models around prospective developments with respect to media, journalism and communication. It presents researches and studies performed by experts across the globe. This book will prove to be immensely beneficial to students and researchers in this field.

Plutonium Handbook: Chemistry David L. Clark 2019 Fifty years after publication of the original Plutonium Handbook, this timely and authoritative 2nd edition provides unparalleled coverage of plutonium research. The greatly expanded 2nd edition contains six volumes of research content and a seventh volume as a complete index. (Each individual volume also has its own index). Topics span the history of the discovery of plutonium, properties of plutonium isotopes, chemistry and properties of plutonium metal and alloys, plutonium aging, thermodynamic trends of plutonium, plutonium in nuclear fuels, waste forms, and heat sources, packaging, storing, and transportation of plutonium, nuclear security and safeguards, and techniques for working with plutonium. With authorship from 13 countries, this truly international collaboration brings together an entire community of researchers from academia, national laboratories, and research institutions. The Plutonium Handbook (2nd edition) is expertly produced and will be a mainstay for generations.

European Security and Defence Policy Esra Bulut 2009 This book analyzes the first ten years of ESDP, from 1999 to 2009. It provides a comprehensive and detailed outline of different aspects of ESDP, including the ESDP institutions responsible for civilian and military crisis management; the civil and military resources available for ESDP operations; and the relationship between ESDP and the United Nations, NATO, the OSCE, and the African Union. ESDP operations, to date, are analyzed, and their implementation, challenges, and achievements are reviewed. It includes data on member state contributions to ESDP operations.

Applied Microbiology Sanjai Saxena 2015-03-19 The book is oriented towards undergraduates science and engineering students; postgraduates and researchers pursuing the field of microbiology, biotechnology, chemical - biochemical engineering and pharmacy. Various applications of microorganisms have been covered broadly and have been appropriately reflected in depth in 12 different chapters. The book begins with an insight to the diverse niche of microorganisms which have been explored and exploited in development of various biotechnological products and green processes. Further, how these microorganisms have been genetically modified to improve the desired traits for achieving optimal production of microbially derived products is discussed in the second chapter. Major route of production of microbially derived products and processes is through fermentation technology and therefore due emphasis on different aspects of fermentation technology has been given in the subsequent chapter. The development and deployment of biopesticides and biofertilizers which find tremendous application have been separately discussed under agricultural applications. Application of microbes for the removal of pollutants, recovery of metals and oils has also been discussed under environmental applications. The role of microbial systems in development of fermented foods and beverages have also been discussed in Chapter 6. The application of microbes in production of commodity chemicals and fine chemicals has also been discussed in separate chapters. A chapter has been dedicated to the tremendous applications of microbially produced enzymes in different industrial sectors. Another unique facet of this book is explaining the different methods by which desired traits of microorganisms have been improved for their efficacious and economical exploitation in the industry. A chapter is dedicated to exploitation of microorganisms in development of vaccines for human and veterinary use. Finally, the last chapter discusses the role of immobilization in optimization of industrial processes and development of microbial biosensors for industrial applications. Thus, this book is a holistic approach providing information on the present applications of microorganisms.

Solon the Athenian Ivan Mortimer Linforth 1918

Handbook of the Protists John M. Archibald 2017-02-26 Published in a modern, user-friendly format this fully revised and updated edition of The Handbook of Protoctista (1990) is the resource for those interested in the biology, diversity and evolution of eukaryotic microorganisms and their descendants, exclusive of animals, plants and fungi. With chapters written by leading researchers in the field, the content reflects the present state of knowledge of the cell and genome biology, evolutionary relationships and ecological/medical/economic importance each major group of protists, organized according to current protist systematics as informed by molecular phylogenetics and genomics.

Advances in Fresh-Cut Fruits and Vegetables Processing Olga Martin-Belloso 2010-10-21 Despite a worldwide increase in demand for fresh-cut fruit and vegetables, in many countries these products are prepared in uncontrolled conditions and have the potential to pose substantial risk for consumers. Correspondingly, researchers have ramped up efforts to provide adequate technologies and practices to assure product safety while keeping n

Philosophy and Methodology in the Social Sciences Barry Hindess 1977

Synthetic Biology of Cyanobacteria Weiwen Zhang 2018-08-08 This volume highlights recent breakthroughs in the interdisciplinary areas of synthetic biology, metabolic engineering and bioprocess engineering for the production of green chemicals. It also presents practical experimental and computational tools for the design, construction and manipulation of cyanobacteria cell factories. The respective contributions cover new technologies in the field, such as novel genetic transformation techniques and bioinformatics analysis methods and address various aspects of cyanobacterial synthetic biology, offering a valuable resource for students and researchers in the fields of industry microbiology and biomedical engineering.

Career Guide to Industries 2006