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CARNEY BLAKE

Metal-Contaminated Soils Springer

This Brief provides a concise review of the potential use of microalgae for biofuel production. The following topics are highlighted: the advantages of microalgae over conventional biofuel-producing crops; technological processes for energy production using microalgae; microalgal biomass production systems, production rates and costs; algae cultivation strategies and main culture parameters; biomass harvesting technologies and cell disruption; CO₂ sequestration; life cycle analysis; and algal biorefinery strategies. The conclusions section discusses the contribution of the technologies described to environmental sustainability and future prospects.

Clinical, Metabolic and Inflammatory Facets Springer Science & Business Media

The culmination of over a decade's worth of research by the Pond Dynamics/Aquaculture Collaborative Research Support Program (CRSP), Dynamics of Pond Aquaculture not only explains the physical, chemical, and biological processes that interact in pond culture systems, but also presents real-world research findings and considers the people who depend on these systems. This book uses data from CRSP field research sites in East Africa, Southeast Asia, Central America, and North America to present a complete picture of the pond system and the environment in which it exists. A thorough study of the principles and practices of aquaculture, the book reflects the state of the art in pond aquaculture and incorporates recent advances that have changed the science in the last decade or so. It provides a thorough review of the many methods, techniques, and ideas that comprise this complex and fascinating area of study.

Proceedings of the 3rd International Halal Conference (INHAC 2016) Springer

Are you looking for creative ways to lower your energy costs, generate more of your own power, or become less reliant on the grid? Paul Scheckel offers practical advice for taking matters into your own hands. Explaining the fundamentals of solar, wind, water, and biofuel energy production, Scheckel shows you how to build and maintain a wide variety of energy-saving and energy-producing equipment, ranging from thermosiphon solar hot water collectors to bicycle-powered generators. Use less energy, save money, and help preserve the environment.

The Health Consequences of Smoking Springer Science & Business Media

The consumption of functional foods has emerged as a major consumer-driven trend, based on the needs of an ever-growing health conscious population that wants to exercise greater control over its health. Focusing on an important sector of this rapidly growing field, Asian Functional Foods discusses the theoretical and practical aspects of functional foods found in the traditional Asian diet, from fundamental concepts of biochemistry, nutrition, and physiology to food science and technology. The book covers a wide range of topics, beginning with an introduction to the source, history, functionality, and chemical, physical, and physiological properties of traditional Asian functional foods, followed by the health benefits, mechanisms of antioxidant action, anticancer and antiaging properties, supported by clinical and epidemiological evidence. The chapter authors discuss processing technology and process systems, equipment, material preparation, food preparation, and quality control during processing. They explore stability, shelf life, and storage criteria for traditional functional food products, industrial production, home-made products, consumer and marketing issues, and social and economical impact. As Asian functional foods continue to gain popularity worldwide, a solid understanding of these functional foods will help food scientists take advantage of them to better maintain and promote health. Examining the scientific and social issues impacting their development, this book provides that understanding.

Soil Science and Management Cengage Learning

Current Protocols Essential Laboratory Techniques Current Protocols

Microalgae as a Feedstock for Biofuels John Wiley & Sons

Master the principles, analysis, and design in pavement engineering This student-friendly textbook offers comprehensive coverage of pavement design and highways. Written by two seasoned civil engineering educators, the book contains precise explanations of traditional and computerized mechanistic design methods along with detailed examples of real-world pavement and highway projects. Pavement Design: Materials, Analysis, and Highways shows, step by step, how to apply the latest, software-based AASHTOWare Pavement Mechanistic-Empirical Design method. Each design topic is covered in separate, modular chapters, enabling you to tailor a course of study.

Fundamentals of Engineering (FE) sample questions are also provided in each chapter. Coverage includes: Stress-strain in pavement Soils, aggregates, asphalt, and portland cement concrete Traffic analysis for pavement design Distresses and distress-prediction models in flexible and rigid pavement Flexible and rigid pavement design by AASHTO 1993 and AASHTOWare Overlay and

drainage design Sustainable and rehabilitation pavement design, pavement management, and recycling Geometric design of highways

Bioactive Components in Milk and Dairy Products Springer Science & Business Media

As antibacterial compounds, bacteriocins have always lived in the shadow of those medically important, efficient and often broad-spectrum low-molecular mass antimicrobials, well known even to laypeople as antibiotics. This is despite the fact that bacteriocins were discovered as early as 1928, a year before the penicillin saga started. Bacteriocins are antimicrobial proteins or oligopeptides, displaying a much narrower activity spectrum than antibiotics; they are mainly active against bacterial strains taxonomically closely related to the producer strain, which is usually immune to its own bacteriocin. They form a heterogeneous group with regard to the taxonomy of the producing bacterial strains, mode of action, inhibitory spectrum and protein structure and composition. Best known are the colicins and microcins produced by Enterobacteriaceae. Many other Gram-negative as well as Gram-positive bacteria have now been found to produce bacteriocins. In the last decade renewed interest has focused on the bacteriocins from lactic acid bacteria, which are industrially and agriculturally very important. Some of these compounds are even active against food spoilage bacteria and endospore formers and also against certain clinically important (food-borne) pathogens. Recently, bacteriocins from lactic acid bacteria have been studied intensively from every possible scientific angle: microbiology, biochemistry, molecular biology and food technology. Intelligent screening is going on to find novel compounds with unexpected properties, just as has happened (and is still happening) with the antibiotics. Knowledge, especially about bacteriocins from lactic acid bacteria, is accumulating very rapidly.

Fundamentals of Atmospheric Radiation Newnes

In *Aqueous Two-Phase Systems: Methods and Protocols*, Rajni Hatti-Kaul and her expert coauthors combine theory, methodology, and applications in a practical collection of easily reproducible protocols for bioseparations in aqueous two-phase systems (ATPS). The protocols range from established methods to cutting-edge techniques with potential biotechnological applications, all presented in set-by-step detail to ensure easy reproducibility and robust results. Among the methods detailed are those for ATPS preparation and characterization, for partitioning applied to soluble molecules and particulates (including whole cells, membranes, and organelles), and for the isolation and purification of proteins-including a glimpse of large-scale handling of two-phase separations. Techniques for in situ product recovery during biocatalytic processes and for polymer-polymer systems in organic solvents are also presented. Practical and informative, with its detailed guidelines allowing researchers to adapt specific systems to their own separation needs, *Aqueous Two-Phase Systems: Methods and Protocols* demonstrates the scope and utility of two-phase aqueous systems in both basic and applied research.

Methods and Protocols McGraw Hill Professional

Meeting the need for teaching material suitable for students of atmospheric science and courses on atmospheric radiation, this textbook covers the fundamentals of emission, absorption, and scattering of electromagnetic radiation from ultraviolet to infrared and beyond. Much of the contents applies to planetary atmosphere, with graded discussions providing a thorough treatment of subjects, including single scattering by particles at different levels of complexity. The discussion of

the simple multiple scattering theory introduces concepts in more advanced theories, such that the more complicated two-stream theory allows readers to progress beyond the pile-of-plates theory. The authors are physicists teaching at the largest meteorology department in the US at Penn State. The problems given in the text come from students, colleagues, and correspondents, and the figures designed especially for this book facilitate comprehension. Ideal for advanced undergraduate and graduate students of atmospheric science. * Free solutions manual available for lecturers at www.wiley-vch.de/supplements/

Pulp & Paper CSIRO PUBLISHING

A practical and well-illustrated guide to microbiological, haematological, and blood transfusion techniques. The microbiology chapter focuses on common tropical infections. The haematology chapter deals with the investigation of anaemia and haemoglobinopathies. The blood transfusion chapter provides guidelines on the use of blood and blood substitutes, selection of donors and collection.

Voltammetry, Amperometry, Biosensors, Applications Springer

An unfortunate by-product of industrialization is the contamination of soil and water resources with toxic metals, which becomes an environmental concern when the concentration in soils begins to affect human health. Current remediation methods applicable to contaminated soils are expensive and environmentally invasive since they are based primarily on civil-engineering techniques. This book represents an overview of efforts in exploiting biological and chemical processes to reduce the inherent risk associated with metal-contaminated soils. It presents a comprehensive, up-to-date analysis of in situ immobilization and inactivation of toxic metals by means of plants, microorganisms and invertebrates.

Direct Support, General Support, and Depot Maintenance Manual Nottingham University Press

A comprehensive source of information on all aspects of shrimp production, this reference covers not only the global status of shrimp farming, but also examines shrimp anatomy and physiology. From nutrition to health management and harvesting issues to biosecurity, this well-researched volume evaluates existing knowledge, proposes new concepts, and questions common practices. With an extensive review on worldwide production systems, this compilation will be highly relevant to research scientists, students, and shrimp producers.

Asian Functional Foods Cambridge University Press

The latest title from the acclaimed Current Protocols series, *Current Protocols Essential Laboratory Techniques, 2e* provides the new researcher with the skills and understanding of the fundamental laboratory procedures necessary to run successful experiments, solve problems, and become a productive member of the modern life science laboratory. From covering the basic skills such as measurement, preparation of reagents and use of basic instrumentation to the more advanced techniques such as blotting, chromatography and real-time PCR, this book will serve as a practical reference manual for any life science researcher. Written by a combination of distinguished investigators and outstanding faculty, *Current Protocols Essential Laboratory Techniques, 2e* is the cornerstone on which the beginning scientist can develop the skills for a successful research career.

The Changing Cigarette Springer

When the present authors entered govern in essence a modern version of "Leach". It mental service,

food chemists looked for differs from that book in that familiarity with the everyday practices of analytical chemistry, guidance to one book, Albert E. Leach's Food Inspection and Analysis, of which the fourth and the equipment of a modern food laboratory, is assumed. We have endeavored to revision by Andrew L. Winton had appeared in 1920. Twenty-one years later the fourth bring it up-to-date both by including newer (and last) edition of A. G. Woodman's Food methods where these were believed to be superior, and by assembling much new Analysis, which was a somewhat condensed text along the same lines, was published. analytical data on the composition of In the 27 years that have elapsed since the authentic samples of the various classes of appearance of Woodman's book, no American foods. Many of the methods described herein can text has been published covering the same were tested in the laboratory of one of the field to the same completeness. Of course, authors, and several originated in that editions of Official Methods of Analysis of the laboratory. In many cases methods are accompanied by notes on points calling for Association of Official Agricultural Chemists have regularly succeeded each other every special attention when these methods are five years, as have somewhat similar publications used.

Carbon Materials for Catalysis Current Protocols Essential Laboratory Techniques Through this monograph, the pharmaceutical chemist gets familiar with the possibilities electroanalytical methods offer for validated analyses of drug compounds and pharmaceuticals. The presentation focuses on the techniques most frequently used in practical applications, particularly voltammetry and polarography. The authors present the information in such a way that the reader can judge whether the application of such techniques offers advantages for solving a particular analytical problem. Basics of individual electroanalytical techniques are outlined using as simple language as possible, with a minimum of mathematical apparatus. For each electroanalytical technique, the physical and chemical processes as well as the instrumentation are described. The authors also cover procedures for the identification of electroactive groups and the chemical and electrochemical processes involved. Understanding the principles of such processes is essential for finding optimum analytical conditions in the most reliable way. Added to this is the validation of such analytical procedures. A particularly valuable feature of this book are extensive tables listing numerous validated examples of practical applications. Various Indices according to the drug type, the electroactive group and the type of method as well as a subject and author index are also provided for easy reference.

Pavement Design: Materials, Analysis, and Highway Applications Springer Nature

This is the first comprehensive book covering all aspects of the use of carbonaceous materials in heterogeneous catalysis. It covers the preparation and characterization of carbon supports and carbon-supported catalysts; carbon surface chemistry in catalysis; the description of catalytic, photo-catalytic, or electro-catalytic reactions, including the development of new carbon materials such as carbon xerogels, aerogels, or carbon nanotubes; and new carbon-based materials in catalytic or adsorption processes. This is a premier reference for carbon, inorganic, and physical chemists, materials scientists and engineers, chemical engineers, and others.

Paper Trade Journal Springer Science & Business Media

The importance of soil; Soil origin and development; Physical properties of soil; Soil water; Water conservation; Irrigation and drainage; Life in the soil; Organic matter; Soil fertility; Soil pH and

salinity; Plant nutrition; Soil sampling and testing; Fertilizers; Organic amendments; Tillage and cropping systems; Horticultural uses of soil; Soil classification and survey; Soil Conservation; Urban soil; Government agencies and programs; Some basic chemistry; Sedimentation test of soil texture; Soil orders of the United States; Soil horizon symbol suffixes; Land evaluation.

Your Guide to Getting Off the Grid Springer

The book discusses the various methods and protocols available in hairy root culture-based research. The utilization of Agrobacterium mediated genetic transformation and establishment of hairy root cultures has paved the way for large-scale secondary metabolite production in medicinal plants. Presenting recent research and offering insights from eminent research groups, the book covers a range of topics related to hairy root-based applications, including (i) establishment of hairy roots and native production of SM (ii) yield enhancement strategies for increased SM production, like elicitation (iii) hairy roots as a tool for value-added applications such as plant-microbe interaction, characterization of plant genes and root biology studies. As such it is an informative guide and experimental manual for researchers in diverse fields of plant biology.

8th RILEM International Symposium on Testing and Characterization of Sustainable and Innovative Bituminous Materials Current Protocols

The prevalence of obesity, metabolic syndrome and diabetes - three links of the same 'atherothrombotic chain' - has reached pandemic proportions worldwide. As a result, our civilization is at war against a threatening enemy: cardio-diabetes. Several independent physiological processes underlie the clustering of cardio-diabetes, including central obesity, insulin resistance, dyslipidemia, inflammation, impaired glucose tolerance, and hypertension. Early detection is of overwhelming importance for public health. The complex and intimate relationship between cardiovascular disease and diabetes from basic science to clinical and therapeutic concerns is discussed in this outstanding book. Beginning with molecular, biochemical, inflammatory and cellular aspects, this publication continues with histological and pathophysiological issues, details particular problems in specific metabolic and clinical settings, and finally analyzes several aspects of clinical pharmacology focusing on the optimal management of combined dyslipidemia and non-insulin antidiabetic therapy in cardiac diabetic patients. This book will be a gain in knowledge for every cardiologist, diabetologist, specialist in internal medicine, nutritionalist, general physician and medical student.

Unsaturated Soil Mechanics in Engineering Practice Cambridge University Press

This book entitled, "Advances in Animal Biotechnology," is a compilation of state-of-the-art in the field of Animal Biotechnology including fishery, that are not sheltered in depth in earlier publications. It offers an update on avant-garde technologies and advances in key aspects of genetic engineering, metagenomics, assisted reproduction, animal genomics, biotechnology in veterinary health, as well as the role of gut and marine microbial ecosystems in livestock and industrial development. The book is divided broadly into five different sections, viz., Gut Microbiome and Nutritional Biotechnology, Assisted Reproduction Biotechnology, Livestock Genomics, Health Biotechnology, and Animal Biotechnology in Global Perspective. The book covers the syllabi of Animal Biotechnology courses in various universities, academia and competitive examinations at various levels. Researchers, Continuing Graduates, and Academicians, Research Institutions, and Biotech Companies will be benefited from this valuable compilation of research. Its broad spectrum makes

this work a valuable resource for professionals, researchers, academics and students in the field of veterinary and animal production as well as the biotechnology industry.