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CUMMINGS EDWARDS

Reactive Oxygen Metabolites Royal Society of Chemistry
NewmediaMultimedia tool guideEnhancing System Reliability Through Vibration TechnologySOLMINEQ.88, a Computer Program for Geochemical Modeling of Water-rock InteractionsUtilisation of Bioactive Compounds from Agricultural and Food Production WasteCRC Press
A Clinical Casebook Springer Science & Business Media
The book is presenting a comprehensive information on fundamental, and applied knowledge of Plasmodiophora brassicae Woronin. infecting cruciferous crops, and weeds. Clubroot of crucifers has spread over more than 88 countries of the world with average annual loss of cruciferous crops from 10-15 per cent at global level. It is considered as a disease of cultivation since once introduced in a field, its inoculum piles up year by year in the form of resilient resting spores of P. brassicae which spreads in the field through field operations. This disease is very unique since the pathogen can survive in the soil in the rhizosphere of non-host plants in addition to its main host cruciferous species, cultivated or wild. This book complies inclusive information about the disease, its geographical distribution, symptoms, host range, yield losses, and disease assessment scales. The book also explores host-parasite interactions in the form of seed infection, disease cycle, process of infection, pathogenesis, epidemiology and forecasting. Chapters discuss the genetic and molecular mechanisms of host-parasite relationships, management practices including cultural, chemical, biological control practices, and other integrated approaches. The book is immensely useful to researchers, teachers, extension specialists, farmers, and all others who are interested to grow healthy and profitable cruciferous crops all over the world. Also the book serves as additional reading material for undergraduate and graduate students of agriculture and especially plant pathology. National and international agricultural scientists, policy makers will also find this to be a useful read.
Phenolics in Food and Nutraceuticals CRC Press
Advances in the flavonoid field have been nothing short of spectacular over the last 20 years. While the medical field has noticed flavonoids for their potential antioxidant, anticancer and cardioprotectant characteristics, growers and processors in plant sciences have utilized flavonoid biosynthesis and the genetic manipulation of the flavonoid pa
Spectroscopic Properties of Inorganic and Organometallic Compounds CRC Press
This book brings together 19 full length manuscripts from invited speakers and nearly 300 abstracts from oral and poster communications presented at the 21st European Symposium on Poultry Nutrition held in Salou/Vila-seca, Spain in May 2017. The invited papers address aspects of poultry nutrition such as feed intake and thermoregulation, feeding strategies and gastrointestinal health, precision feeding (feeding strategies and nutrient requirements), optimized use of feed ingredients, and other hot topics such as updating P requirements of broilers, mycotoxins and future perspectives of poultry production. The open communication abstracts deal with the latest research on poultry nutrition, including feed raw materials, protein sources and amino acids, feed additives and enzymes, nutrition and gut health, mineral nutrition, among other topics.
The New Way of Interpreting PNL Springer Science & Business Media
The book covers intimately all the topics necessary for the development of a robust magnetohydrodynamic (MHD) code within the framework of the cell-centered finite volume method (FVM) and its applications in space weather study. First, it presents a brief review of existing MHD models in studying solar corona and the heliosphere. Then it introduces the cell-centered FVM in three-dimensional computational domain. Finally, the book presents some applications of FVM to the MHD codes on spherical coordinates in various research fields of space weather, focusing on the development of the 3D Solar-InterPlanetary space-time Conservation Element and Solution Element (SIP-CESE) MHD model and its applications to space weather studies in various aspects. The book is written for senior undergraduates, graduate students, lecturers, engineers and researchers in solar-terrestrial physics, space weather theory, modeling, and prediction, computational fluid dynamics, and MHD simulations. It helps readers to fully understand and implement a robust and versatile MHD code based on the cell-centered FVM.
Enhancing System Reliability Through Vibration Technology CRC Press
Interest in obtaining biologically active compounds from natural sources has recently spiked due to their low toxicity, complete biodegradability, availability from renewable sources, and in most cases, low cost. Taking an interdisciplinary approach, Bioactive Compounds from Natural Sources: Isolation, Characterization, and Biological Properties covers general methods and main topics in the research field of bioactive natural products. The book describes general screening methods, modern HPLC hyphenated techniques, and NMR methods in the structural elucidation of compounds and devotes individual chapters to specific topics of research. Surveys on compounds displaying important pharmacological activities are presented in chapters devoted to Mexican medicinal plants, anti-

tumor drugs of natural origin, cancer chemopreventive flavonoids, and metabolites displaying anti-HIV, antioxidative, antimalarial, and anti-inflammatory activity. The final chapters are devoted to representative examples of research into marine metabolites: immunomodulating marine glycolipids and surveys of bioactive compounds from marine opisthobranchs and Japanese soft corals. With its focus on modern approaches to the isolation of biologically active natural products, this book encourages interdisciplinary work among chemists, pharmacologists, biologists, botanists, and agronomists with an interest in bioactive natural products.

A Reference Grammar of Maithili Wageningen Academic Publishers

The present volume concentrates on catalyst surfaces. The interaction of adsorbed molecules, mostly on heterogenous catalysts, although some reference to model catalysts is also made, is discussed here. Vibrational (infrared and electron energy loss spectroscopies, magnetic resonances (nuclear and electron spin) and thermal desorption methods have been included in this latter category. The reader will find also a comparison of these well established methods with their recent developments which make them much more attractive. Therefore, researchers working in the catalysis field will find much to interest them in this book.

Theory and Reality Routledge

PNL is the gold standard for the management of large and/or otherwise complex renal stones. Since its introduction in the seventies PNL has undergone considerable evolution, mainly driven by the improvement in access techniques, endoscopic instrument technology, lithotripsy devices and drainage management. The conventional prone position for PNL has been challenged in the last two decades by a variety of modifications, including the supine and Galdakao-modified supine Valdivia positions, which make simultaneous retrograde working access to the collecting system possible and have proven anesthesiological advantages. The Galdakao-modified supine Valdivia position allowed the development of ECIRS (Endoscopic Combined IntraRenal Surgery), a technique exploiting a combined antegrade and retrograde approach to the upper urinary tract, using both rigid and flexible endoscopes with the related accessories. The synergistic teamwork of ECIRS provides a safe and efficient, minimally-invasive procedure for the treatment of all kinds of urolithiasis. The aim of this book is to share with the urologic community worldwide our experience, our standardization of all the steps, and tips and tricks for the procedure.

Elements of Plane Surveying (including Leveling) CRC Press

Phenolics in Food and Nutraceuticals is the first single-source compendium of essential information concerning food phenolics. This unique book reports the classification and nomenclature of phenolics, their occurrence in food and nutraceuticals, chemistry and applications, and nutritional and health effects. In addition, it describes antioxidant a

From Chromosomes Characterization to Genes Technology Elsevier

Humans have utilized the bioactive principles of different plants for various beneficial physiological properties including antimicrobial properties for many centuries. However, interests of using medicinal plants declined in the 20th century with the availability of effective synthetic antimicrobial drugs. The development of microbial resistance to various drugs has accelerated research interests towards the use of phytochemicals as alternatives to synthetic drugs in the recent years. This book presents an comprehensive reviews on the antimicrobial and antiviral properties of numerous recently reported phytochemicals, and their mechanisms of antimicrobial actions. Some of the chapters have critically discussed the beneficial and adverse effects of antibacterial, and stimulatory activities of dietary phytochemicals on rumen microbial populations, and gut microbial populations of humans and animals. Microbial adaptation and resistance of microbes to phytochemicals has also been highlighted. On the applied apects, the use of phytochemicals against drug resistance microbes, to treat microbial diseases, for food preservation, to inhibit methanogenic archaea in the rumen, and to modulate lipid biohydrogenating microbial populations to increase conjugated linoleic acids in animal-derived foods have been presented in different chapters.

Ethers as Ligands Apress

The obesity epidemic has spawned an unlimited array of quick-fix, rapid weight loss plans and unproven pharmaceuticals. Dangerous side effects and rebound weight gain has made the cure seem worse than the syndrome itself and left people uncertain where to turn. The only way to safely deal with the global obesity problem is to develop strategic ther

Journal of the House of Representatives of the United States CRC Press

The large quantity of waste generated from agricultural and food production remains a great challenge and an opportunity for the food industry. As there are numerous risks associated with waste for humans, animals and the environment, billions of dollars are spent on the treatment of agricultural and food waste. Therefore, the utilisation of bioactive compounds isolated from waste not only could reduce the risks and the costs for treatment of waste, but also could potentially add more value for agricultural and food production. This book provides comprehensive information related to extraction and isolation of bioactive compounds from agricultural and food production waste for utilisation in the food, cosmetic and pharmaceutical industries. The topics range from an overview on challenges and opportunities related to agricultural and food waste, the bioactive compounds in the waste, the techniques used to analyse, extract and isolate these compounds to several specific examples for potential utilisation of waste from agricultural and food industry. This book also further discusses the potential of bioactives isolated from agricultural and food waste being re-utilised in the food, cosmetic and pharmaceutical industries. It is intended for students, academics, researchers and professionals who are interested in or associated with agricultural and food waste.

Proceedings of the 21st European Symposium on Poultry Nutrition Wiley-Interscience

Functional foods are foods which contain bioactive components, either from plant or animal sources, which can have health benefits for the consumer over and above their nutritional value. Foods which have antioxidant or cancer-combating components are in high demand from health conscious consumers: much has been made of the health-giving qualities of fruits and vegetables in particular. Conversely, foods which have been processed are suffering an image crisis, with many consumers indiscriminately assuming that any kind of processing robs food of its “natural goodness”. To date, there has been little examination of the actual effects – whether positive or negative – of various types of food processing upon functional foods. This book highlights the effects of food processing on the active ingredients of a wide range of functional food materials, with a particular focus on foods of Asian origin. Asian foods, particularly herbs, are becoming increasingly accepted and demanded globally, with many Western consumers starting to recognize and seek out their health-

giving properties. This book focuses on the extraction of ingredients which from materials which in the West are seen as “alternative” - such as flour from soybeans instead of wheat, or bran and starch from rice – but which have long histories in Asian cultures. It also highlight the incorporation of those bioactive compounds in foods and the enhancement of their bioavailability. Functional Foods and Dietary Supplements: Processing Effects and Health Benefits will be required reading for those working in companies, research institutions and universities that are active in the areas of food processing and agri-food environment. Food scientists and engineers will value the new data and research findings contained in the book, while environmentalists, food regulatory agencies and other food industry personnel involved in functional food production or development will find it a very useful source of information.

Big Data – BigData 2018 Oxford Specialist Handbooks in

The structure of CP/M; The CP/M file system; The console command processor; The basic disk operating system; Building a new CP/M system; Writing an enhaced BIOS; Dealing with hardware errors; Debugging a new CP/M system; Additional utility programs; Error messages.

Functional Foods and Dietary Supplements Springer Science & Business Media

"This book is a must have resource guide for anyone who wants to ... implement TXT within their environments. I wish we had this guide when our engineering teams were implementing TXT on our solution platforms!” John McAuley,EMC Corporation "This book details innovative technology that provides significant benefit to both the cloud consumer and the cloud provider when working to meet the ever increasing requirements of trust and control in the cloud.” Alex Rodriguez, Expedient Data Centers "This book is an invaluable reference for understanding enhanced server security, and how to deploy and leverage computing environment trust to reduce supply chain risk.” Pete Nicoletti. Virtustream Inc. Intel® Trusted Execution Technology (Intel TXT) is a new security technology that started appearing on Intel server platforms in 2010. This book explains Intel Trusted Execution Technology for Servers, its purpose, application, advantages, and limitations. This book guides the server administrator / datacenter manager in enabling the technology as well as establishing a launch control policy that he can use to customize the server’s boot process to fit the datacenter’s requirements. This book explains how the OS (typically a Virtual Machine Monitor or Hypervisor) and supporting software can build on the secure facilities afforded by Intel TXT to provide additional security features and functions. It provides examples how the datacenter can create and use trusted pools. With a foreword from Albert Caballero, the CTO at Trapezoid.

Educational Developments in the Congo (Leopoldville) Springer

Proceedings of the NATO Advanced Study Institute on Genome Structure and Function, held in Marciana Marina, Elba, Italy, 13-23 June 1996

SOLMINEQ.88, a Computer Program for Geochemical Modeling of Water-rock Interactions CRC Press

The scientific world and modern society today is experiencing the dawning of an era of herbal medicine. Extensive research has shown that aromatic plants are important anti-inflammatory, antioxidant, anti aging and immune boosting delectable foods, with the magic and miracle to boost our immune system providing us with extended and an improved quality of life. Apart from making bland recipes into welcoming or interesting victories, herbs and spices have stirred the minds of the research community to look deeper into its active components from a functional perspective. It is essential to present the scientific and medicinal aspect of herbs and spices together with the analysis of constituents, its medicinal application, toxicology and its physiological effects. Herbs and spices with high levels of antioxidants are in great demand as they tend to promote health and prevent diseases naturally assuring increased safety and reliability for consumers. Herbs and spices are not only known for taste and flavor, but today research has opened up a new realm in which the antioxidant properties of these aromatic plants provide preservation for foods and health benefits for consumers who look forward to concrete scientific research to guide them further and explore herbal medicine. The aim of this book is to create awareness in society about the reliability of medicinal properties of certain herbs and spices through scientific and scholarly research.

Epidemiology, Pathophysiology, and Prevention NewmediaMultimedia tool guideEnhancing System Reliability Through Vibration TechnologySOLMINEQ.88, a Computer Program for Geochemical Modeling of Water-rock InteractionsUtilisation of Bioactive Compounds from Agricultural and Food Production Waste

This volume constitutes the proceedings of the 7th International Conference on BIGDATA 2018, held as Part of SCF 2018 in Seattle, WA, USA in June 2018. The 22 full papers together with 10 short papers published in this volume were carefully reviewed and selected from 97 submissions. They are organized in topical sections such as Data analysis, data as a service, services computing, data conversion, data storage, data centers, dataflow architectures, data compression, data exchange, data modeling, databases, and data management.

Supine Percutaneous Nephrolithotomy and ECIRS Springer Science & Business Media

Green History traces the development of ecological writing through history and forms a broad critical review of green ideas and movements reinforcing the importance of environmental concern and action in our own time. Animal rights, ecology as science, feminism, green fascism/socialism/anarchism, land reform, peaceful protest, industrialization, ancient ecology, evolution, grassroots activism, philosophical holism, recycling, Taoism, demographics, utopias, sustainability, spiritualism ...all these issues and many more are discussed. Authors include Alice Walker on massacre in the City of Brotherly Love, Aldous Huxley on progress, Lewis Mumford on the organic outlook, Engels on natural dialectics, Thoreau on the fontier life, the Shelleys on vegetarianism and playing God, Bacon on the New Atlantis, Hildegard of Bingen on green vigour, the unknown writer of the Bodhisattva and the Hungry Tigress and Plato on soil erosion. Each article is set within its historical and thematic context. A full introduction and a guide to further reading are also provided.

Multimedia tool guide Springer

In recent years, the field of radical chemistry has undergone explosive growth. Although its roots lie in organic chemistry, the implications of its findings are having enormous impact in a broad range of disciplines, and we now have evidence for radical involvement in over 100 diseases. As important as this is, however, the subject of radicals and reactive oxygen metabolites (ROMs) is complex and barely touched upon in the curriculum of medical schools. Reactive Oxygen Metabolites brings the subject within the grasp of even those with little preparation in chemistry. From the basic chemistry of radicals through the pathology, the author provides a clear and thorough introduction to ROMs and their importance to human health and disease. Exhaustively researched and referenced, this

highly readable work will give you the ability to critically analyze and evaluate many pathological problems arising from the chemistry of ROMs and reduce them to their lowest common denominator. It is the ideal vehicle for people who need to understand the importance of reactive oxygen and nitrogen species in human health and disease but have neither the time, the inclination, nor perhaps the background to work their way through the mountain of original literature.