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Endophytic Fungi Ahmed M. Abdel Azeem 2022-08-01 Endophytic Fungi: The Full Story of the Untapped Treasure covers the developments in endophytic fungal research from beginning to the end by the eminent researchers involved in the field. It sheds light on the endophytic fungal current research, challenges, and future possibilities, the trending recent topics in the plant-fungal endophytes' biodynamics for sustainable development of bioproducts and its applications are supported in large-scale biosynthesis of industrially and pharmaceutical important biomolecules. The highlights of Endophytic Fungi: The Full Story of the Untapped Treasure are the bioprospecting and applied aspects of endophytic fungi. Practical applications of such endophytes are discussed in detail. Further, it reviews recent strategies on alternative sustainable sources of medicines such as secondary metabolites of fungi instead of over collection of plants under prohibiting of biodiversity conventions. The uniqueness of the Endophytic Fungi is the inclusion of updated bioinformatics-based strategies and its importance in bioactive molecules produced by endophytic fungi. Endophytic Fungi addresses one of the most eminent issues in this field: "how to translate the potential that endophytic fungi hold in stable practical application." Covers major concepts of plant-fungi interaction, biodiversity of endophytic fungi from diverse and biotechnological applications for sustainable development Is extensively illustrated and clearly written, using easy-to-understand language, sharing the latest developments and potential of fungal products for various applications Sheds light on the endophytic fungal current research, challenges, and future possibilities Serves as a useful reference for policy makers

2020 Endocrine Case Management Maralyn Druce 2020-04-16 Meet-the-Professor (MTP) Endocrine Case Management, Reference Edition 2020 is your source for the latest updates in the diagnosis and management of a wide range of endocrine disorders. This valuable resource allows you to evaluate your endocrine knowledge and gain insight into the strategies used by clinical experts. MTP is updated annually with new cases. Features include: - Significance of the Clinical Problem - Key Learning Objectives - Strategies for Diagnosis and Management - Clinical Pearls and Pertinent References - Cases and Questions

Building Information Modelling (BIM) in Design, Construction and Operations III P. De Wilde 2019-12-10 Originating from the 2019 International Conference on Building Information Modelling this book presents latest findings in the field. This volume presents research from a panel of experts from industry, practice and academia touching on key topics, the development of innovative solutions, and the identification future trends.

Identifying Future Competitive Business Strategies for the U.S. Residential Wood Furniture Industry Albert Thomas Schuler 2003 This paper describes benchmarking activities undertaken to provide a basis for comparing the U.S. wood furniture industry with other nations that have a globally competitive furniture manufacturing industry. The second part of this paper outlines and discusses strategies that have the potential to help the U.S. furniture industry survive and thrive in a global business environment. A case is made for a paradigm shift in the business of designing, manufacturing, marketing, and distributing wooden furniture, as it is perhaps the most promising vehicle for our industry to sustain a prosperous U.S. manufacturing base into the future. Furthermore, a change in business models b1s a paradigm shift is proposed to avoid cost-based competition with low-cost producers such as those located in Asia and South America.

Principles and Practice of Pediatric Oncology Philip A. Pizzo 2011 Thoroughly updated for its Sixth Edition, Principles and Practice of Pediatric Oncology provides a comprehensive review of the multiple disciplines that make up the care and research agendas for children with cancer. It is the most comprehensive textbook of pediatric oncology ever put together, covering biology and genetics and detailing the diagnosis, multimodal treatment, and long-term management of patients with cancer. The fundamental principles of supportive care and the psychosocial aspects of support for patients and families are also discussed.

Fruit and Vegetable Quality Robert L. Shewfelt 2000-04-18 Improved quality requires integration across business functions and scientific disciplines. Based on this premise, Fruit and Vegetable Quality: An Integrated View presents 15 unique perspectives on achieving greater quality and guidance for a more integrated approach to postharvest handling and fruit and vegetable research. Designed for anyone involved in the management, production, handling, distribution, or processing of fruits and vegetables, it provides concise descriptions of important issues, roadmaps to the literature in specific fields, assessments of current knowledge and research needs, and specific examples of product-based research. Your guide to the dynamic developments in integrating fruit and vegetable quality projects, Fruit and Vegetable Quality: An Integrated View also presents a range of options for achieving better coordination of research across scientific disciplines.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Sustainable Agrochemistry Silvio Vaz Jr. 2019-05-28 This book presents a broad range of technologies for sustainable agrochemistry, e.g. semiochemicals for pest management, nanotechnology for release of eco-friendly agrochemicals, and green chemistry principles for agriculture. It provides a concise introduction to sustainable agrochemistry for a professional audience, and highlights the main scientific and technological approaches that can be applied to modern agrochemistry. It also discusses various available technologies for reducing the negative impacts of agrochemicals on the environment and human health.

Fundamentals and Analytical Applications of Multiway Calibration 2015-08-10 Fundamentals and Analytical Applications of Multi-Way Calibration presents researchers with a set of effective tools they can use to obtain the maximum information from instrumental data. It includes the most advanced techniques, methods, and algorithms related to multi-way calibration and the ways they can be applied to solve actual analytical problems. This book provides a comprehensive coverage of the main aspects of multi-way analysis, including fundamentals and selected applications of chemometrics that can resolve complex analytical chemistry problems through the use of multi-way calibration. Includes the most advanced techniques, methods, and algorithms related to multi-way calibration and the ways they can be applied to solve actual analytical problems Presents researchers with a set of effective tools they can use to obtain the maximum information from instrumental data Provides comprehensive coverage of the main aspects of multi-way analysis, including fundamentals and selected applications of chemometrics

A Modern Difference Engine James Donnelly 1992

Neural Generalized Predictive Control: A Newton-Raphson Implementation Donald Soloway 1997

Sketchbook for Girls Deborah Suarez 2018-01-16 Sketchbook for Girls Cute covered journal for personal doodles, drawing and sketching. Blank pages with a placeholder for the date on each page. This extra large journal measures 8.5" wide by 11" in height so a good size for creating all those masterpieces. Over 108 pages, it is great value and would make the perfect gift for any girl that likes to sketch, draw and doodle. Order your Sketchbook or Girls.

Focal Therapy in Prostate Cancer Hashim Uddin Ahmed 2011-12-27 This book comprehensively reviews the potential of focal therapy and discusses why the changing face of prostate cancer warrants a change in the way we treat men with the disease. It deals with the mechanisms by which disease can be localized within the gland and then the different technologies used for focal ablation. Bringing together eminent contributors in one accessible reference, this book introduces focal therapy to all urologists, oncologists, and radiologists who are involved in the treatment of men with prostate cancer.

Fundamental Theory Sir Arthur Stanley Eddington 1949

The Peach Desmond R. Layne 2008 This book summarizes current state of knowledge in peach botany, production and postharvest management. Specific topics covered consisted of: botany and taxonomy (chapter 1); history of cultivation and trends in China (chapter 2); classical genetics and breeding (chapter 3); genetic engineering and genomics (chapter 4); low-chill cultivar development (chapter 5); fresh market cultivar development (chapter 6); processing peach cultivar development (chapter 7); rootstock development (chapter 8); propagation techniques (chapter 9); carbon assimilation, partitioning and budget modelling (chapter 10); orchard planting systems (chapter 11); crop load management (chapter 12); nutrient and water requirements of peach trees (chapter 13); orchard floor management systems (chapter 14); biology, epidemiology and management of diseases caused by fungi and fungal-like organisms (chapter 15); diseases caused by bacteria and phytoplasmas [Candidatus Phytoplasma] (chapter 16); viruses and viroids (chapter 17); insects and mites (chapter 18); nematodes (chapter 19); preharvest factors affecting peach quality (chapter 20); ripening, nutrition and postharvest physiology (chapter 21); and harvesting and postharvest handling of peaches for the fresh market (chapter 22). This book aims to provide research scientists, extension personnel, students, professional fruit growers and others with a vital resource on peach and its culture.

Ethnopharmacology of Wild Plants Mahendra Rai 2020-10 Wild plants signify a vital health and economic constituent of biodiversity. In recent years, research interest on wild plants has increased. This book contains valuable information on wild plants and their ethnopharmacological properties. It deliberates on traditional usage and ethnopharmacological properties of wild plants. It will be useful to policy makers, researchers working in the areas of biodiversity, ethnopharmacology, ethno-biology, conservation biology and biodiversity prospecting.

Petroleum Source Rocks Barry J. Katz 2012-12-06 Over the past two decades there has been increased interest in the availability of hydrocarbon charge through a better understanding of petroleum geochemistry and the identification and characterization of petroleum source rocks. These rocks are geochemically unique and form under specific sets of circumstances. This book brings together both geologic and geochemical data from fifteen petroleum source rocks, ranging in age from Devonian to Eocene, that would otherwise be widely dispersed in the literature or available only in proprietary corporate databases. Much of this information, presented in either a tabular or graphic fashion, provides the petroleum explorationist and the geochemist with a framework to establish relationships among various geochemical indices and depositional settings.

On Creativity Lee Nichol 2003-08-29 Creativity is fundamental to human experience. In On Creativity David Bohm, the world-renowned scientist, investigates the phenomenon from all sides: not only the creativity of invention and of imagination but also that of perception and of

discovery. This is a remarkable and life-affirming book by one of the most far-sighted thinkers of modern times.

Dynamic Secrets in Communication Security Sheng Xiao 2013-08-13 Dynamic secrets are constantly generated and updated from messages exchanged between two communication users. When dynamic secrets are used as a complement to existing secure communication systems, a stolen key or password can be quickly and automatically reverted to its secret status without disrupting communication. "Dynamic Secrets in Communication Security" presents unique security properties and application studies for this technology. Password theft and key theft no longer pose serious security threats when parties frequently use dynamic secrets. This book also illustrates that a dynamic secret based security scheme guarantees impersonation attacks are detected even if an adversary steals a user's password or their key is lost. Practitioners and researchers working in network security or wireless communications will find this book a must-have reference. "Dynamic Secrets in Communication Security" is also a valuable secondary text for advanced-level students in computer science and electrical engineering.

The Artificial Pancreas Riccardo S. Sanchez-Pena 2019-04-24 The Artificial Pancreas presents research on the top issues related to the artificial pancreas (AP) and its application to diabetes. AP is a newer form of treatment to inject insulin accurately and efficiently, thereby significantly improving the patient's quality of life. By connecting a continuous glucose monitor (CGM) to a continuous subcutaneous insulin infusion using a control algorithm, AP delivers and regulates the most accurate amount of insulin to maintain normal glycemic values. Featuring chapters written by the world's leaders in AP research, this book provides readers with the latest studies and results to assist and improve the lives of patients living with diabetes.

Postharvest Handling Robert L. Shewfelt 2012-12-02 Postharvest Handling: A Systems Approach introduces a new concept in the handling of fresh fruits and vegetable. Traditional treatments have been either physiologically based with an emphasis on biological tissue or technologically based with an emphasis on storage and handling. This book integrates all processes from production practices through consumer consumption with an emphasis on understanding market forces and providing fresh product that meets consumer expectations.

Postharvest physiologists and technologists across the disciplines of agricultural economics, agricultural engineering, food science and horticulture along with handlers of minimally-processed products within the fresh produce fruit and vegetable processing industries will find this to be an invaluable source of information. Uses a systems approach that provides a unique perspective on the handling of fresh fruits and vegetables Designed with the applied perspective to complement the more basic perspectives provided in other treatments Provides the integrated, interdisciplinary perspective needed in research to improve the quality of fresh and minimally processed products Emphasizes that the design of handling systems should be market-driven rather than concentrating on narrow specifics

Cell Signaling in Model Plants 2.0 Jen-Tsung Chen 2021-10-29 Plant cell signaling is an intensive research topic in which reductionism can be achieved when we investigate the systems of model plants. To continue our previous book entitled "Cell Signaling in Model Plants", the second volume explores more insights into the regulatory mechanisms of plant growth and development and eventually collects 20 publications that consist of one editorial, eleven original research articles and eight literature reviews. This book only presents a snapshot of this intensive field of plant biology, and we believe that with the rapid development of advanced technology such as integrative multi-omics and CRISPR genome editing, more and more critical networks of plant cell signaling will be unraveled in the future.

Antifouling Paint Biocides Ioannis K. Konstantinou 2006-02-22 Contamination of the aquatic environment by antifouling compounds has been a topic of increasing importance during the last few years. This book describes advances in antifouling paint biocides, and provides thorough evaluation of research and information on occurrence and levels, environmental fate, analytical techniques and methods for the monitoring and control, environmental modeling, ecotoxicological effects and risk assessment placing emphasis on the knowledge acquired over the last decade.

The Methodologies of Art Laurie Schneider Adams 2018-03-09 Since the nineteenth century, when art history became an established academic discipline, works of art have been 'read' in a variety of ways. These different ways of describing and interpreting art are the methodologies of artistic analysis, the divining rods of meaning. Regardless of a work's perceived difficulty, an art object is, in theory, complex. Every work of art is an expression of its culture (time and place) and its maker (the artist) and is dependent on its media (what it's made of). The methodologies discussed here (formal analysis, iconology and iconography, Marxism, feminism, biography and autobiography, psychoanalysis, structuralism, race and gender) reflect the multiplicity of meanings in an artistic image. The second edition includes nineteen new images, new sections on race, gender, orientalism, and colonialism, and a new epilogue that analyzes a single painting to illustrate the different methodological viewpoints.

Quality management in food chains Ludwig Theuvsen 2007-06-04 This publication comprises material on recent studies on quality management in agri-food chains. Due to several food crisis's (e.g. BSE, Foot-and-Mouth disease) and growing demands for food quality and safety, quality management systems and quality assurance schemes have been widely adopted in different countries in recent years. Scientific knowledge about the features, the acceptance and the effectiveness and efficiency of these newly introduced quality management initiatives, has remained scarce until now. The material by experts in the field, focuses on the evaluation of quality management systems and quality assurance schemes. The main issues are the costs and benefits of quality management given the influence of the public sector and consumers' expectations about food quality and safety. Not only are benchmarking and harmonisation methods examined with regard to their impact on the effectiveness of quality assurance schemes, but, also the role of trust, cooperation and integration for efficient quality management is discussed. Different economic theories such as microeconomics, organization and marketing theory as well as advanced statistical methods are applied. Concepts are discussed from the various points of view of industrialised, export-oriented and developing countries throughout the book. The information in this book give a comprehensive review of quality management concepts in food chains and highlight future research directions from a global perspective. This book is of interest to all those who concern themselves with the topic, be it in academia or in the professional sector.

Advances in Endophytic Fungal Research Bhim Pratap Singh 2019-02-12 Plant endophytes are a potential source for the production of bioactive compounds that can fight against devastating diseases in both plants and humans. Among these endophytic microorganisms, endophytic fungi are one of the dominant group of microorganisms with a potential role in plant growth promotion and the discovery of noble bioactive natural products. Endophytic fungi possess several bioactivities like anticancer, antimicrobial, insecticidal, plant growth stimulants, crop protection, phytoremediation, etc. Presence of modular biosynthetic genes clusters like PKS and NRPS in several endophytic fungi underscores the need to understand and explore such organisms. This volume presents and demonstrates the applied aspects of endophytic fungi. Practical applications of such endophytes are discussed in detail, including studies in pharmaceutical development and agricultural management of important microbial diseases. The beneficial effects that endophytic fungi provide to host plants—enhancing growth, increasing fitness, strengthening tolerance to abiotic and biotic stresses through secondary metabolites—are also discussed. The reader is provided with a comprehensive and detailed understanding of such relationships between endophytic fungi and their host.

Fungal Infections in Immunocompromised Hosts Dimitrios P. Kontoyiannis 2019-04-02 In this unique supplement, we have compiled several state-of-the-art topics that are based on lectures delivered by eminent mycology experts during the 37th ICHS meeting. We hope that the esteemed audience of the Journal of Fungi will enjoy and appreciate the ever-evolving and complex field of fungal infections in vulnerable hosts.

Estimating Market Value and Establishing Market Rent at Small Airports Aviation Management Consulting Group, Inc 2020 "Staff from smaller airports typically lack specialized expertise in the negotiation and development of airport property or the resources to hire consultants.

ACRP Research Report 213 provides airport management, policymakers, and staff a resource for developing and leasing airport land and improvements, methodologies for determining market value and appropriate rents, and best practices for negotiating and re-evaluating current lease agreements. There are many factors that can go into the analysis, and this report reviews best practices in property development."--Foreword.

Evaporite Basins Tadeusz M. Peryt 2014-03-12

Health and the State 2010

Mono- and Disubstituted Methyltin, Butyltin, and Octyltin Compounds Stuart Dobson 2006 Organotins are a group of compounds which have a variety of properties and uses. The focus of this Concise International Chemical Assessment Document (CICAD) is on those mono- and disubstituted organotins mainly used as stabilizers in PVC, as catalysts for the production of electrodeposited coatings, in silicone rubbers, and in powder and glass coatings. The CICAD evaluates the health and environmental effects of these organotins and presents a summary of the uncertainties inherent in the risk characterization of this group of compounds.

Plant Sensing and Communication Richard Karban 2015-06-18 The news that a flowering weed—mousear cress (*Arabidopsis thaliana*)—can sense the particular chewing noise of its most common caterpillar predator and adjust its chemical defenses in response led to headlines announcing the discovery of the first “hearing” plant. As plants lack central nervous systems (and, indeed, ears), the mechanisms behind this “hearing” are unquestionably very different from those of our own acoustic sense, but the misleading headlines point to an overlooked truth: plants do in fact perceive environmental cues and respond rapidly to them by changing their chemical, morphological, and behavioral traits. In *Plant Sensing and Communication*, Richard Karban provides the first comprehensive overview of what is known about how plants perceive their environments, communicate those perceptions, and learn. Facing many of the same challenges as animals, plants have developed many similar capabilities: they sense light, chemicals, mechanical stimulation, temperature, electricity, and sound. Moreover, prior experiences have lasting impacts on sensitivity and response to cues; plants, in essence, have memory. Nor are their senses limited to the processes of an individual plant: plants eavesdrop on the cues and behaviors of neighbors and—for example, through flowers and fruits—exchange information with other types of organisms. Far from inanimate organisms limited by their stationary existence, plants, this book makes unquestionably clear, are in constant and lively discourse.

Biomedical Sensing and Imaging Wuliang Yin 2021-11-17 This book mainly deals with recent advances in biomedical sensing and imaging. More recently, wearable/smart biosensors and devices, which facilitate diagnostics in a non-clinical setting, have become a hot topic.

Combined with machine learning and artificial intelligence, they could revolutionize the biomedical diagnostic field. The aim of this book is to provide a research forum in biomedical sensing and imaging and extend the scientific frontier of this very important and significant biomedical endeavor.

Network Pharmacology Shao Li 2021-09-29 This book introduces “network pharmacology” as an emerging frontier subject of systematic drug research in the era of artificial intelligence and big data. Network Pharmacology is an original subject of fusion system biology, bioinformatics, network science and other related disciplines. It emphasizes on starting from the overall perspective of the system level and biological networks, the analysis of the laws of molecular association between drugs and their treatment objects, reveals the systematic pharmacological mechanisms of drugs, and guides the research and development of new drugs and clinical diagnosis and treatment. After it was proposed, network pharmacology has been paid attention by researchers, and it has been rapidly developed and widely used. In order to systematically reveal the biological basis of diagnosis and treatment in traditional Chinese medicine and modern medicine, we proposed a new concept of "network target" for the first time, which has become the core theory of "network pharmacology". The core principle of a network target is to construct a biological network that can be used to decipher complex diseases. The network is then used as the therapeutic target, to which multicomponent remedies are applied. This book mainly includes four parts: 1) The concept and theory of network pharmacology; 2) Common analysis methods, databases and software in network pharmacological research; 3) Typical cases of traditional Chinese medicine modernization and modern drug research based on network pharmacology; 4) Network pharmacology practice process based on drugs and diseases.

Early Child Development Verónica Schiariti 2021-09-13 In the early years of life, the environments that interact with a child-including families, schools, and communities-play a key role in the child's brain development. Early child development and overall children's developmental trajectories have long-term implications for health, happiness, and earning potential as these children become adults. Importantly, failing to reach developmental potential contributes to global cycles of poverty, inequality, and social exclusion. There is little public understanding of the importance of a child's first years and the critical developmental opportunity to reach optimal functioning. As such, global data on early child developments are crucial to inform the public and demand evidence-based policies and high-quality programs for children around the world. This book includes initiatives assessing the impact of programs and interventions related to children's health, education, and participation that inform evidence-based policies worldwide. Importantly, this book raises global awareness of the importance of children's first years of life and the crucial role of child-environment interactions where the child lives, plays, and grows. The culturally diverse content comprises international representation of studies and classifications tools. International experts contributed high-quality reviews that collate valuable information and guide the adoption of a rights-based approach in early child development globally.

Superradiance Richard Brito 2020-08-21 This book focuses on one mechanism in black hole physics which has proven to be universal, multifaceted and with a rich phenomenology: rotational superradiance. This is an energy extraction process, whereby black holes can deposit their

rotational energy in their surroundings, leading to Penrose processes, black-hole bombs, and even Hawking radiation. Black holes are key players in star formation mechanisms and as engines to some of the most violent events in our universe. Their simplicity and compactness make them perfect laboratories, ideally suited to probe new fields or modifications to the theory of gravity. Thus, black holes can also be used to probe some of the most important open problems in physics, including the nature of dark matter or the strong CP problem in particle physics. This monograph is directed to researchers and graduate students and provides a unified view of the subject, covering the theoretical machinery, experimental efforts in the laboratory, and astrophysics searches. It is focused on recent developments and works out a number of novel examples and applications, ranging from fundamental physics to astrophysics. Non-specialists with a scientific background should also find this text a valuable resource for understanding the critical issues of contemporary research in black-hole physics. This second edition stresses the role of ergoregions in superradiance, and completes its catalogue of energy-extraction processes. It presents a unified description of instabilities of spinning black holes in the presence of massive fields. Finally, it covers the first experimental observation of superradiance, and reviews the state-of-the-art in the searches for new light fields in the universe using superradiance as a mechanism.

Recommendations of the European Working Group for Adult ALL Nicola Gökbüget 2011

Quantifying the Agri-Food Supply Chain Christien J.M. Ondersteijn 2009-09-03 This book offers a coherent view on agri-food supply chains by discussing the possibilities and limitations of quantifying performance, risks and investments in the agri-food chain. A wide variety of approaches was used to analyze the complex systems of agri-food supply chains and develop appropriate models for management decision support. Research gaps and discussion points are identified by an international forum of researchers.

California Elections Code (2018 Edition) The Law The Law Library 2018-05-07 California Elections Code (2018 Edition) The Law Library presents the official text of the California Elections Code (2018 Edition). Updated as of April 30, 2018 This book contains: - The complete text of the California Elections Code (2018 Edition) - A table of contents with the page number of each section

Reducing Greenhouse Gas Emissions Joseph G. Levitt 2010 The atmospheric concentration of greenhouse gases, most notably carbon dioxide, has gradually increased over the last century and, in the view of many climate scientists, is warming the global climate. Two policies of pricing carbon dioxide emissions and encouraging research and development of new carbon-reducing technologies, have been discussed as methods of limiting current and future emissions. This book examines available research on the role that these policies might play in encouraging cost-effective reductions in emissions as well as analysis on whether it would be more efficient to implement the policies simultaneously or sequentially.