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SHANNON DOMINIK

Fiber Plants BoD - Books on Demand

People's desire to understand the environments in which they live is a natural one. People spend most of their time in spaces and structures designed, built, and managed by humans, and it is estimated that people in developed countries now spend 90 percent of their lives indoors. As people move from homes to workplaces, traveling in cars and on transit systems, microorganisms are continually with and around them. The human-associated microbes that are shed, along with the human behaviors that affect their transport and removal, make significant contributions to the diversity of the indoor microbiome. The characteristics of "healthy" indoor environments cannot yet be defined, nor do microbial, clinical, and building researchers yet understand how to modify features of indoor environments—such as building ventilation systems and the chemistry of building materials—in ways that would have predictable impacts on microbial communities to promote health and prevent disease. The factors that affect the environments within buildings, the ways in which building characteristics influence the composition and function of indoor microbial communities, and the ways in which these microbial communities relate to human health and well-being are extraordinarily complex and can be explored only as a dynamic, interconnected ecosystem by engaging the fields of microbial biology and ecology, chemistry, building science, and human physiology. This report reviews what is known about the intersection of these disciplines, and how new tools may facilitate advances in understanding the ecosystem of built environments, indoor microbiomes, and effects on human health and well-being. It offers a research agenda to generate the information needed so that stakeholders with an interest in understanding the impacts of built environments will be able to make more informed decisions.

Allergens and Allergen Immunotherapy Penguin

This is a practical, user-friendly guide to the identification and assessment of indoor air contaminants that contribute to building related illness in commercial buildings, institutions, and residences. The third edition covers basic concepts and details various approaches and up-to-date analytical methods, and it addresses some of the more recent, as well as less common, concerns on air pollutants. All chapters will be updated and also includes one completely new chapter on Inhalable Airborne Particles. All updates adhere to the latest National Ambient Air Quality Standards and other active standards.

Wild Edible Vegetables of Lesser Himalayas McGraw-Hill Science, Engineering & Mathematics

This introductory, one quarter/one-semester text takes a multidisciplinary approach to studying the relationship between plants and people. The authors strive to stimulate interest in plant science and encourage students to further their studies in botany. Also, by exposing students to society's historical connection to plants, Levetin and McMahon hope to instill a greater appreciation for the botanical world. *Plants and Society* covers basic principles of botany with strong emphasis on the economic aspects and social implications of plants and fungi.

Issues and Applications Cambridge University Press

Our intention with this book was to present the reader with the most accurate, significant, and up-to-date background and knowledge in the areas of ethnomedicinal and nutraceutical vegetation for the Lesser Himalayas in a comprehensive text. *Wild Edible Vegetables of Lesser Himalayas* provides a complete review of over 50 important plants of this region and details each species including photographs, botanical name, local name, family, flowering and fruiting period, status and habitat, parts used, distribution, ethnobotanical uses, cultural aspects, medicinal uses, and nutraceutical aspects. Medicinal uses include mode of preparation, method of application and diseases studied; cultural aspects and index; nutraceutical data provides analysis of fats, proteins, fibers,

carbohydrates, ash, moisture content, dry matter, and energy value; elemental analysis includes various essential and toxic metals; phytochemical screening includes total phenolics, flavonoids, flavonols and ascorbic acid, and antioxidant potential in terms of DPPH scavenging activity, hydroxyl radical scavenging activity, H₂O₂ scavenging activity, Fe²⁺ chelating activity, ferric reducing antioxidant power, and phosphomolybdenum assay for each species. *Wild Edible Vegetables of Lesser Himalayas* is a concise and handy guide for scientists, scholars, and students interested in the study of agriculture, food science, nutraceutical science, bioscience, biodiversity, applied ethnobotany, ethnoecology, and ecology.

Introduction to Fungi CRC Press

A plant anatomy textbook unlike any other on the market today. Carol A. Peterson described the first edition as 'the best book on the subject of plant anatomy since the texts of Esau'. Traditional plant anatomy texts include primarily descriptive aspects of structure, this book not only provides a comprehensive coverage of plant structure, but also introduces aspects of the mechanisms of development, especially the genetic and hormonal controls, and the roles of plasmodesmata and the cytoskeleton. The evolution of plant structure and the relationship between structure and function are also discussed throughout. Includes extensive bibliographies at the end of each chapter. It provides students with an introduction to many of the exciting, contemporary areas at the forefront of research in the development of plant structure and prepares them for future roles in teaching and research in plant anatomy.

The Lively Art McGraw-Hill College

In recent years, the concern of society about how food influences the health status of people has increased. Consumers are increasingly aware that food can prevent the development of certain diseases, so in recent years, the food industry is developing new, healthier products taking into account aspects such as trans fats, lower caloric intake, less salt, etc. However, there are bioactive compounds that can improve the beneficial effect of these foods and go beyond the nutritional value. This book provides information on impact of bioactive ingredients (vitamins, antioxidants, compounds of the pulses, etc.) on nutrition through food, how functional foods can prevent disease, and tools to evaluate the effects of bioactive ingredients, functional foods, and diet.

Laboratory Protocols in Fungal Biology McGraw-Hill Humanities, Social Sciences & World Languages

The sixth edition of Lockey and Ledford's *Allergens and Allergen Immunotherapy* continues to provide comprehensive coverage of all types of allergens and allergen vaccines, providing clinicians the essential information they need to accurately diagnose and manage all allergic conditions. With new and updated chapters, the sixth edition is the most up-to-date, single resource on allergy and immunotherapy. Key Features Completely revised and updated Detailed single source reference on allergy and immunotherapy Reorganized to provide clinicians with essential information to make diagnoses and offer the best treatments

ACSM's Behavioral Aspects of Physical Activity and Exercise Penguin

Be prepared to provide the very best care to your patients! Develop the foundation in pathology you need to recognize the signs and symptoms of the oral conditions and the manifestations of systemic diseases you'll encounter in clinical practice. Step by step, you'll learn about the etiology of each disease or condition, how to recognize it, what the diagnostic process is, how the disease progresses, and what the treatment options are.

Successful Aging McGraw-Hill Science/Engineering/Math

This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth

Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites. *Australian Medicinal Plants* W. W. Norton

We see teaching mathematics as a form of story-telling, both when we present in a classroom and when we write materials for exploration and learning. The goal is to explain to you in a captivating manner, at the right pace, and in as clear a way as possible, how mathematics works and what it can do for you. We find mathematics to be intriguing and immensely beautiful. We want you to feel that way, too.

Calculus: Early Transcendentals Cengage Learning

Natural pine forests characterize many landscapes preserved over time, either as a result of a specific forest management practice or a disturbance. In the event of a lack of management over a long period of time, these formations could evolve with increasingly chaotic structures towards other formations. This process can lead to landscape change, the spread of insects and pathogens, and the risk of fires and watercourse obstruction. Pine forest plantations should be considered as transient tree populations, destined to evolve into more complex and stable formations. However, sometimes they should be preserved for their cultural value. Careful management of these forests also takes into account the close relationship between forest and human settlements. As a first step, ecological management assumes the definition of these two macro types. These approaches include the application of integrated methods for determining the reference conditions of the main functional and structural ecosystem components of forests. The reference conditions are the historical (or natural) variability range of ecological structures and processes, reflecting the recent evolution and dynamic interaction of biotic and abiotic conditions and patterns of disturbance. These conditions form the basis for comparison with contemporary ecosystem processes and structures and are a frame of reference for designing ecological restoration treatments and conservation plans. The productive aspects must not be overlooked; rather, they have to be considered, planned, and managed with a perspective of sustainability and ecosystem functionality. This should be considered for a common approach to forest management, for a forest rehabilitation, and for forest restoration activities.

An Introduction to Plant Structure and Development WCB/McGraw-Hill

This book is exceptional in the sense that it provides an introduction to law in general rather than the law of one specific jurisdiction, and it presents a unique way of looking at legal education. It is crucial for lawyers to be aware of the different ways in which societal problems can be solved and to be able to discuss the advantages and disadvantages of different legal solutions. In this respect, being a lawyer involves being able to reason like a lawyer, even more than having detailed knowledge of particular sets of rules. Introduction to Law reflects this view by focusing on the functions of rules and on ways of arguing the relative qualities of alternative legal solutions. Where 'positive' law is discussed, the emphasis is on the legal questions that must be addressed by a field of law and on the different solutions which have been adopted by, for instance, the common law and civil law tradition. The law of specific jurisdictions is discussed to illustrate possible answers to questions such as when the existence of a valid contract is assumed.

Breaching the Border, Bridging the Distance National Academies Press

Science education is experiencing a revitalization, as it is recognized that science should be accessible to everyone, not just society's future scientists. One way to make the study of science more substantive to the non-major is to require a laboratory component for all science courses. The subject of applied botany with its emphasis on the practical aspects of plant science, the authors believe, will be appealing to the non-major as it exemplifies how a basic science can be applied to problem solving. Laboratory Manual for Applied Botany will make students realize that the study of plants is relevant to their lives and that they can participate in the discovery process of science. Although the manual includes much of the basic plant anatomy found in standard botany manuals, it differs in taking a practical approach, examining those plants and plant products that have sustained

or affected human society.

Plants and Society 8e Univ of California Press

This introductory, one quarter/one-semester text takes a multidisciplinary approach to studying the relationship between plants and people. The authors strive to stimulate interest in plant science and encourage students to further their studies in botany. Also, by exposing students to society's historical connection to plants, Levetin and McMahon hope to instill a greater appreciation for the botanical world. Plants and Society covers basic principles of botany with strong emphasis on the economic aspects and social implications of plants and fungi.

Introduction to Agronomy: Food, Crops, and Environment Springer Science & Business Media

Biodiversity and Human Health brings together leading thinkers on the global environment and biomedicine to explore the human health consequences of the loss of biological diversity.

America Democracy Now Essentials Routledge

The most pedagogically innovative text and media for the western civilizations course now more current, more global, and more interactive."

A Sociolopb Macmillan Higher Education

Laboratory Protocols in Fungal Biology presents the latest techniques in fungal biology. This book analyzes information derived through real experiments, and focuses on cutting edge techniques in the field. The book comprises 57 chapters contributed from internationally recognised scientists and researchers. Experts in the field have provided up-to-date protocols covering a range of frequently used methods in fungal biology. Almost all important methods available in the area of fungal biology viz. taxonomic keys in fungi; histopathological and microscopy techniques; proteomics methods; genomics methods; industrial applications and related techniques; and bioinformatics tools in fungi are covered and compiled in one book. Chapters include introductions to their respective topics, list of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting. Each chapter is self-contained and written in a style that enables the reader to progress from elementary concepts to advanced research techniques. Laboratory Protocols in Fungal Biology is a valuable tool for both beginner research workers and experienced professionals. Coming Soon in the Fungal Biology series: Goyal, Manoharachary / Future Challenges in Crop Protection Against Fungal Pathogens Martín, García-Estrada, Zeilinger / Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Zeilinger, Martín, García-Estrada / Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites, Volume 2 van den Berg, Maruthachalam / Genetic Transformation Systems in Fungi Schmoll, Dattenbock / Gene Expression Systems in Fungi Dahms / Advanced Microscopy in Mycology

Organizational Behavior Lippincott Williams & Wilkins

An essential guide and invaluable resource for anyone interested in herbal medicine, Australian flora and the indigenous Australian culture. Plants have been used for medicinal purposes since earliest recorded history and Australia's varied flora provided Aboriginal people with medicines. With the arrival of Europeans much of this knowledge was overtaken by modern drugs and techniques but today there is a revival of interest in traditional medicines. Australian Medicinal Plants covers the Aboriginal use of native plants and explains how the first settlers learned from the Aborigines their medicinal values. There is information on nearly 500 individual plants, how they were used, what their known pharmacological constituents are, where to find them and how to prepare remedies. The species are helpfully arranged in chapters according to their use: for fevers, painkillers, antiseptics and digestive disorders for instance.

Earth Observation Open Science and Innovation McGraw-Hill Education

This book assesses the potential effects of biotechnological approaches, particularly genetic modification, on the present state of fiber crop cultivation and sustainable production. Leading international researchers discuss and explain how biotechnology can affect and solve problems in connection with fiber crops. The topics covered include biology, biotechnology, genomics and applications of fiber crops like cotton, flax, jute and bamboo. Providing complete, comprehensive and broad subject-based reviews, the book offers a valuable resource for students, teachers, and researchers including agriculturists, biotechnologists and botanists, as well as industrialists and government agencies involved in the planning of fiber crop cultivation.

Finding a Path to Safety in Food Allergy Springer

This well timed volume features a selection of chapters composed by experts in their respective fields. It covers a broad range of topics, from its fundamental biology to the fern's population genetics and environmental and therapeutic applications.

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