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Water Societies and Technologies from the Past and Present Mark Altaweel
2018-11-26 Today our societies face great challenges with water, in terms of both quantity and quality, but many of these challenges have already existed in the past. Focusing on Asia, *Water Societies and Technologies from the Past and Present* seeks to highlight the issues that emerge or re-emerge across different societies and periods, and asks what they can tell us about water sustainability. Incorporating cutting-edge research and pioneering field surveys on past and present water management practices, the interdisciplinary contributors together identify how societies managed water resource challenges and utilised water in ways that allowed them to evolve, persist, or drastically alter their environment. The case studies, from different periods, ancient and modern, and from different regions, including Egypt, Sri Lanka, Cambodia, Southwest United States, the Indus Basin, the Yangtze River, the Mesopotamian floodplain, the early Islamic city of Sultan Kala in Turkmenistan, and ancient Korea, offer crucial empirical data to readers interested in comparing the dynamics of water management practices across time and space, and to those who wish to understand water-related issues through conceptual and quantitative models of water use. The case studies also challenge classical theories on water management and social evolution, examine and establish the deep historical roots and ecological foundations of water sustainability issues, and contribute new grounds for innovations in sustainable urban planning and ecological resilience.

A Guide to Understanding Fundamental Principles of Environmental Management Andrew Manale 2021-01-15 This book uses plain language to introduce the non-expert to the fundamentals of environmental management, without requiring them to have a solid grounding in the basic sciences. The authors build upon the reader's natural understanding of scientific principles to learn how to follow the consequences of change through natural systems and to ask better questions about one's environment. Case studies are provided, drawn from temperate ecosystems in and around the human-altered agricultural landscapes and the built (human) environment. Two sets of stories are crafted to explain scientific concepts and introduce analytical approaches, identifying where and how to obtain relevant information. The first covers water and where it goes and what factors affects its fate, and the second how key building blocks of life (carbon and the nutrients, nitrogen and phosphorus) change chemical forms and cycles through the environment. The role of soils in the nexus of environmental media is explained. Sample questions and cheat sheets with sources of information are included. Finally, the authors describe, and also lead the reader to identify, how humans have altered core processes and to judge the significance of these changes. The reader will learn how to fix environmental dysfunction in both private and public lives.

Proteomics of Peroxisomes Luis A. del Río 2018-10-30 This new edited volume in the Springer Subcellular Biochemistry Series presents a comprehensive, state-of-the-art overview of the proteomics of peroxisomes derived from mammalian, Drosophila, fungal, and plant origin, and contains contributions from leading experts in the field. The development of sensitive proteomics and mass spectrometry technologies, combined with bioinformatics approaches now allow the identification of low-abundance and transient peroxisomal proteins and permits to identify the complete proteome of peroxisomes, with the consequent increase of our knowledge of the metabolic and regulatory networks of these important cellular organelles. The book lines-up with these developments and is organized in four sections including: (i) mass spectrometry-based organelle proteomics; (ii) prediction of peroxisomal proteomes; (iii) analysis of peroxisome proteome interaction networks; and (iv)

peroxisomes in relation to other subcellular compartments. The editor Luis A. del Río is Professor ad honorem of the Spanish National Research Council (CSIC) in the Group of Antioxidants, Free Radicals and Nitric Oxide in Biotechnology, Food and Agriculture, Department of Biochemistry and Cell & Molecular Biology of Plants, at the Estación Experimental del Zaidín, Granada, Spain. Del Río's research group focuses on the metabolism of reactive oxygen species (ROS), reactive nitrogen species (RNS) and antioxidants in plant peroxisomes, and the ROS- and RNS-dependent role of peroxisomes in plant cell signalling. The editor Michael Schrader is Professor of Cell Biology & Cytopathology in the Department of Biosciences at the University of Exeter, UK. Using mammalian peroxisomes as model organelles, Prof. Schrader and his team aim to unravel the molecular machinery and signalling pathways that mediate and regulate the formation, dynamics and abundance of these medically relevant cellular compartments.

Molecular Mechanisms and Physiological Significance of Organelle Interactions and Cooperation Michael Schrader 2017-02-28 Eukaryotic cells contain distinct membrane-bound organelles, which compartmentalise cellular proteins to fulfil a variety of vital functions. Many organelles have long been regarded as isolated and static entities (e.g., peroxisomes, mitochondria, lipid droplets), but it is now evident that they display dynamic changes, interact with each other, share certain proteins and show metabolic cooperation and cross-talk. Despite great advances in the identification and characterisation of essential components and molecular mechanisms associated with the biogenesis and function of organelles, information on how organelles interact and are incorporated into metabolic pathways and signaling networks is just beginning to emerge. Organelle cooperation requires sophisticated targeting systems which regulate the proper distribution of shared proteins to more than one organelle. Organelle motility and membrane remodeling support organelle interaction and contact. This contact can be mediated by membrane proteins residing on different organelles which can serve as molecular tethers to physically link different organelles together. They can also contribute to the exchange of metabolites and ions, or act in the assembly of signaling platforms. In this regard organelle communication events have been associated with important cellular functions such as apoptosis, antiviral defense, organelle division/biogenesis, ROS metabolism and signaling, and various metabolic pathways such as breakdown of fatty acids or cholesterol biosynthesis. In this research topic we will focus on recent novel findings on the underlying molecular mechanisms and physiological significance of organelle interaction and cooperation with a particular focus on mitochondria, peroxisomes, endoplasmic reticulum, lysosomes and lipid droplets and their impact on the regulation of cellular homeostasis. Our understanding of how organelles physically interact and use cellular signaling systems to coordinate functional networks between each other is still in its infancy. Nevertheless recent discoveries of defined membrane structures such as the mitochondria-ER associated membranes (MAM) are revealing how membrane domains enriched in specific proteins transmit signals across organelle boundaries, allowing one organelle to influence the function of another. In addition to its role as a mediator between mitochondria and the ER, contacts between the MAM and peroxisomes contribute to antiviral signaling, and specialised regions of the ER are supposed to initiate peroxisome biogenesis, whereas intimate contacts between peroxisomes, lipid droplets and the ER mediate lipid metabolism. In line with these observations it is tempting to speculate that further physical contact sites between other organelles exist. Alternatively, novel regulated vesicle trafficking pathways between organelles (e.g., mitochondria to peroxisomes or lysosomes) have been discovered implying another mode of organelle

communication. Identifying the key molecular players of such specialised membrane structures will be a prerequisite to understand how organelle communication is physically accomplished and will lead to the identification of new regulatory networks. In addition to the direct transmission of interorganellar information, cytosolic messenger systems (e.g., kinase/phosphatase systems or redox signaling) may contribute to the coordination of organelle functions. This research topic will integrate new findings from both modes of communication and will provide new perspectives for the functional significance of cross-talk among organelles. We would like to thank all the researchers who contributed their valuable work to this research topic. Furthermore, we are grateful to the reviewers and Associate Editors who contributed valuable comments and positive criticism to improve the contributions.

Perfect Health Diet Paul Jaminet 2012-12-11 Suffering from chronic illness and unable to get satisfactory results from doctors, husband and wife scientists Paul and Shou-Ching Jaminet took an intensely personal interest in health and nutrition. They embarked on five years of rigorous research. What they found changed their lives— and the lives of thousands of their readers. In *Perfect Health Diet*, the Jaminets explain in layman's terms how anyone can regain health and lose weight by optimizing nutrition, detoxifying the diet, and supporting healthy immune function. They show how toxic, nutrient-poor diets sabotage health, and how on a healthy diet, diseases often spontaneously resolve. *Perfect Health Diet* tells you exactly how to optimize health and make weight loss effortless with a clear, balanced, and scientifically proven plan to change the way you eat—and feel—forever!

Advances in Physical, Social & Occupational Ergonomics Waldemar Karwowski 2020-07-01 This book reports on cutting-edge findings and developments in physical, social and occupational ergonomics. It covers a broad spectrum of studies and evaluation procedures concerning physical and mental workload, work posture and ergonomic risk. Further, it reports on significant advances in the design of services and systems, including those addressing special populations, for purposes such as health, safety and education, and discusses solutions for a better and safer integration of humans, automated systems and digital technologies. The book also analyzes the impact of culture on people's cognition and behavior, providing readers with timely insights into theories on cross-cultural decision-making, and their diverse applications for a number of purposes in businesses and societies. Based on three AHFE 2020 conferences (the AHFE 2020 Virtual Conference on Physical Ergonomics and Human Factors, the AHFE 2020 Virtual Conference on Social & Occupational Ergonomics, and the AHFE 2020 Virtual Conference on Cross-Cultural Decision Making), it provides readers with a comprehensive overview of the current challenges in physical, social and occupational ergonomics, including those imposed by technological developments, highlights key connections between them, and puts forward optimization strategies for sociotechnical systems, including their organizational structures, policies and processes.

Obesity G. Michael Steelman 2016-04-27 Obesity is considered a complex and multifactorial disease. Its treatment, therefore, must also be multimodal and tailored to meet the needs of each patient. *Obesity: Evaluation and Treatment Essentials* presents a wide spectrum of practical treatment protocols for obesity including exercise, pharmacology, behavior modification, and dietary factors,

Air France Internet Marketing Mark Jeffery 2017 Rob Griffin, senior vice president and U.S. director of search for Media Contacts, a communications consulting firm, is faced with the task of optimizing search engine marketing (SEM) for Air France. At the time of the case, SEM had become an advertising phenomenon, with North American advertisers spending \$9.4 billion in the SEM channel, up 62% from 2005. Moving forward, Griffin wants to ensure that the team keeps its leading edge and delivers the results Air France requires for optimal Internet sales growth. The case centers upon Air France's and Media Contacts' efforts to find the ideal SEM campaign to provide an optimal amount of ticket sales in response to advertising dollars spent. This optimal search marketing campaign is based on choosing

effective allocation of ad dollars across the various search engines, as well as selecting appropriate keywords and bid strategies for placement on the search result page for Internet users. In determining the optimal strategy, the case presents background information on the airline industry as well as the Internet search options available at the time, including Google, Microsoft MSN, Yahoo!, and Kayak. Additionally, background information is provided on SEM and its associated costs and means of measuring the successfulness of each marketing effort. The case illustrates how one must first determine the key performance indicators for the project to guide analysis and enable comparison of various SEM campaigns. Cost per click and probability to produce a sale differ among publishers. Therefore, using a portfolio application model's quadrant positions can be used to determine optimal publisher strategies. Additionally, pivot tables help illustrate campaigns and strategies that have historically been most successful in meeting Air France's target Internet sales. Multiple recommendations on how Media Contacts can assist Air France in improving its SEM strategy can be derived from the data provided. Students learn how to optimally leverage the Internet in generating customer sales in a cost-effective manner. Students will analyze and manipulate a variety of data using pivot tables to determine optimal strategies for obtaining maximum total online bookings through the various online channels available. Using a portfolio application model, students can determine an optimal publisher strategy and complete copy improvement analysis.

Real World Drug Discovery Robert M. Rydzewski 2010-07-07 Drug discovery increasingly requires a common understanding by researchers of the many and diverse factors that go into the making of new medicines. The scientist entering the field will immediately face important issues for which his education may not have prepared him: project teams, patent law, consultants, target product profiles, industry trends, Gantt charts, target validation, pharmacokinetics, proteomics, phenotype assays, biomarkers, and many other unfamiliar topics for which a basic understanding must somehow be obtained. Even the more experienced scientist can find it frustratingly difficult to get an overview of the many factors involved in modern drug discovery and often only after years of exploring does a whole and integrated picture emerge in the mind of the researcher. *Real World Drug Discovery: A Chemist's Guide to Biotech and Pharmaceutical Research* presents this kind of map of the landscape of drug discovery. In a single, readable volume it outlines processes and explains essential concepts and terms for the recent science graduate wondering what to expect in pharma or biotech, the medicinal chemist seeking a broader and more timely understanding of the industry, or the contractor or collaborator whose understanding of the commercial drug discovery process could increase the value of his contribution to it. Interviews with well-known experts in many of the fields involved, giving insightful comments from authorities on many of the sub-disciplines important to cutting edge drug discovery. Helpful suggestions gleaned from years of experience in biotech and pharma, which represents a repository drug discovery "lore" not previously available in any book. "Periodic Table of Drugs" listing current top-selling drugs arranged by target and laid out so that structural similarities and differences are plain and clear. Extensive use of diagrams to illustrate concepts like biotech startup models, preteomic profiling for target identification, Gantt charts for project planning, etc.

Contamination Control and Cleanrooms Alvin Lieberman 2012-12-06 Contamination control standards and techniques for all phases of the production of high-technology products are spelled out in this applications-orientated guide. Practical cleaning methods for products and process fluids are accompanied by tips on selecting operations based on economy and efficiency. Explanations of contaminant measurement devices cover operation, error sources and remedial methods. Engineers will find vital data on contaminant sources, as well as coverage of operations and procedures that aggravate contaminant effects.

The Secretary Granule Alan M. Poisner 1982

The Himalayan Cryosphere: N.C. Pant 2018-08-31 The Himalaya mountains contain not only one of the largest concentrations of ice outside the polar regions, but

contribute to the hydrological requirements of large populations spread over seven nations. The exceptionally high elevations of this low-latitude cryosphere presents a natural laboratory and archives to study climate-tectonics interactions as well as regional v. global climate influences. The existing base-level data on the Himalayan cryosphere are highly variable. Several climate fluctuations occurred during the late Quaternary (MIS1-MIS5, especially the last c. 100 ka), which led to the evolution of the Himalayan landscape. Detailed studies of these archives, along with those of the present cryosphere and related hydrosphere, are essential for understanding the controls on present and future hydrology of the glacial-fed mountain rivers. This volume, a follow-up of the XII International Symposium on Antarctic Earth Science, Goa (A SCAR symposium), provides new data from locales spread over the entire Himalaya region and from Tibet. It provides a glimpse of the late Quaternary cryosphere, as well as a discussion in the last section on sustainability in the context of geohazard mitigations as well as the hydrological budget.

Benign Breast Diseases Catherine N. Chinyama 2013-12-20 The second edition of this book has been extensively revised and updated. There has been a lot of scientific advances in the radiology, pathology and risk assessment of benign breast lesions since the publication of the first edition. The first edition concentrated on screen-detected lesions, which has been rectified. New symptomatic and screen-detected lesions are discussed in the second edition and include: mastitis and breast abscess, idiopathic granulomatous mastitis, diabetic mastopathy, phyllodes tumour, gynaecomastia and pseudoangiomatous stromal hyperplasia. The chapters on columnar cell lesions and mucocele-like lesions have been extensively updated. Where applicable, genetic analysis of the benign lesions which in breast cancer is becoming part of personalised medicine has been included. The book includes detailed analysis of the main models such as the Gail Model used to assess the subsequent risk of breast cancer in individuals. The current trend in the management of all cancers is preventative. Screening mammography detects early curable cancers as well as indeterminate lesions. These indeterminate mammographic lesions are invariably pathologically benign. The author collated important benign lesions and based on peer-reviewed publications documented the relative risk of subsequent cancer to allow the patient and the clinician to institute preventative measures where possible. This book therefore will be an essential part of multidisciplinary management of patients with symptomatic and screen-detected benign breast lesions.

The Ketogenic Bible Jacob Wilson 2017-08-15 The Ketogenic Bible is the most complete, authoritative source for information relating to ketosis. This book is a one-stop-shop that explains the history, the science, and the therapeutic benefits of the ketogenic diet, outlines the general guidelines for following this diet, and provides a wide variety of keto recipes. Readers will come away with a firm understanding of the ketogenic diet, its potential uses, and the ways it can be implemented. Using a scientific approach, the authors have drawn from both extensive research and practical experience to bring readers an all-encompassing approach.

The Potato Crop Hugo Campos 2019-12-03 This book is open access under a CC BY 4.0 license. This book provides a fresh, updated and science-based perspective on the current status and prospects of the diverse array of topics related to the potato, and was written by distinguished scientists with hands-on global experience in research aspects related to potato. The potato is the third most important global food crop in terms of consumption. Being the only vegetatively propagated species among the world's main five staple crops creates both issues and opportunities for the potato: on the one hand, this constrains the speed of its geographic expansion and its options for international commercialization and distribution when compared with commodity crops such as maize, wheat or rice. On the other, it provides an effective insulation against speculation and unforeseen spikes in commodity prices, since the potato does not represent a good traded on global markets. These two factors highlight the underappreciated and underrated role of the potato as a dependable nutrition security crop, one that can mitigate turmoil in world food

supply and demand and political instability in some developing countries. Increasingly, the global role of the potato has expanded from a profitable crop in developing countries to a crop providing income and nutrition security in developing ones. This book will appeal to academics and students of crop sciences, but also policy makers and other stakeholders involved in the potato and its contribution to humankind's food security.

Fruit Oils: Chemistry and Functionality Mohamed Fawzy Ramadan 2019-05-08 Fruit Oils: Chemistry and Functionality presents a comprehensive overview of recent advances in the chemistry and functionality of lipid bioactive phytochemicals found in fruit oils. The chapters in this text examine the composition, physicochemical characteristics and organoleptic attributes of each of the major fruit oils. The nutritional quality, oxidative stability, and potential food and non-food applications of these oils are also extensively covered. The potential health benefits of the bioactive lipids found in these fruit oils are also a focus of this text. For each oil presented, the levels of omega-9, omega-6 and omega-3 fatty acids are specified, indicating the level of health-promoting traits exhibited in each. The oils and fats extracted from fruits generally differ from one another both in terms of their major and minor bioactive constituents. The methods used to extract oils and fats as well as the processing techniques such as refining, bleaching and deodorization affect their major and minor constituents. In addition, different post-processing treatments of fruit oils and fats may alter or degrade important bioactive constituents. Treatments such as heating, frying, cooking and storage and major constituents such as sterols and tocopherols are extensively covered in this text. Although there have been reference works published on the composition and biological properties of lipids from oilseeds, there is currently no book focused on the composition and functionality of fruit oils. Fruit Oils: Chemistry and Functionality aims to fill this gap for researchers, presenting a detailed overview of the chemical makeup and functionality of all the important fruit oils.

The Leadership Challenge James M. Kouzes 1996-12-06 Completely revised and updated I not only enjoyed it...I found myself constantly nodding and saying to myself, 'That's right! That's how it's done! That's what it feels like!' You certainly captured the essence of what I've found is at the heart of transforming leadership. -- Robert D. Haas, chairman and CEO, Levi Strauss & Co. The leadership book that outshines them all, updated for today's new business realities. With an expanded research base of 60,000 leaders, this second edition captures the continuing interest in leadership as a critical aspect of human organizations. It offers a broader scope of leaders in every industry and walk of life, including the education and nonprofit fields, and examines the era's hottest issues -- the new cynicism, the electronic global village, evolving employee-employer relationships -- in keeping pace with our ever-changing world. The classic five-point guide to better leadership, however, remains as useful as ever.

Handbook of Banana Production, Postharvest Science, Processing Technology, and Nutrition Muhammad Siddiq 2020-09-15 A comprehensive guide that covers the banana's full value chain - from production to consumption The banana is the world's fourth major fruit crop. Offering a unique and in-depth overview of the fruit's entire value chain, this important new handbook charts its progression from production through to harvest, postharvest, processing, and consumption. The most up-to-date data and best practices are drawn together to present guidelines on innovative storage, processing, and packaging technologies, while fresh approaches to quality management and the value-added utilization of banana byproducts are also explained. Additionally, the book examines the banana's physiology, nutritional significance, and potential diseases and pests. The book also Edited by noted experts in the field of food science, this essential text: Provides a new examination of the world's fourth major fruit crop Covers the fruit's entire value chain Offers dedicated chapters on bioactive and phytochemical compounds found in bananas and the potential of processing byproducts Gives insight into bananas' antioxidant content and other nutritional properties Identifies and explains present and possible effects of bioactive and

phytochemical compounds Handbook of Banana Production, Postharvest Science, Processing Technology, and Nutrition offers the most far-reaching overview of the banana currently available. It will be of great benefit to food industry professionals specializing in fruit processing, packaging, and manufacturing banana-based products. The book is also an excellent resource for those studying or researching food technology, food science, food engineering, food packaging, applied nutrition, biotechnology, and more.

ASSESSMENT AND CONTROL OF BIOLOGICAL INVASION RISKS Fumito Koike 2006 Biological invasion, an issue of growing importance due to the significant increase in international transportation and trade, can disturb the balance of local ecosystems and even destroy them. This collection of papers presented at the International Conference on Assessment and Control of Biological Invasion Risks held in August 2004 at Yokohama National University discusses risk assessment, risk management and eradication. It also includes contributions reporting on the current status of invasion and the properties of alien species in East Asia.

Degradation of Implant Materials Noam Eliaz 2012-08-21 This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials. All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of research into the field. Different failure mechanisms such as corrosion, fatigue, and wear will be reviewed, together with experimental techniques for monitoring them, either in vitro or in vivo. Procedures for implant retrieval and analysis will be presented. A variety of biomaterials (stainless steels, titanium and its alloys, nitinol, magnesium alloys, polyethylene, biodegradable polymers, silicone gel, hydrogels, calcium phosphates) and medical devices (orthopedic and dental implants, stents, heart valves, breast implants) will be analyzed in detail. The book will serve as a broad reference source for graduate students and researchers studying biomedicine, corrosion, surface science, and electrochemistry.

Quality Assurance for the Food Industry J. Andres Vasconcellos 2003-12-29 Food companies, regardless of their size and scope, understand that it is impossible to establish a single division devoted to "quality", as quality is the responsibility and purpose of every company employee. Applying this theory demands the cooperation of each employee and an understanding of the methodology necessary to establish, implement, and evaluate a Quality Assurance program. Quality Assurance for the Food Industry: A Practical Approach provides in-depth coverage of all aspects of quality assurance. It identifies the basic concepts and principles behind Total Quality Management and presents examples of Quality Assurance programs that can be applied to the food industry using simple, proven formats. The author discusses the role of Quality Assurance in product manufacturing, emphasizing the need for interactions among an organization's Quality Assurance, Quality Control, Product Development, Marketing, Sales, and Consumer Affairs departments. He analyzes the characteristics of a quality audit and the purpose of a proper audit, then focuses on specific examples including product manufacturing audits, food plant sanitation audits, and product quality audits. A comprehensive examination of HACCP and its applications concludes the coverage. This practical, industry-oriented reference explains the fundamental role of Quality Assurance and provides the knowledge required for establishing a Total Quality Management system in your own company. The concepts and procedures discussed are the key components for attaining and maintaining the highest standards of quality in the food industry.

Territorial tools for agro-industry development Food and Agriculture Organization of the United Nations 2018-08-09 This sourcebook appraises these instruments and considers their nature and objectives, their potential benefits and challenges and the approaches used to implement them. It also examines the practices that have led to both successful and unsuccessful outcomes. The publication provides a comprehensive review of the potential of these tools to enhance value addition, deliver jobs, increase exports and provide markets for new and existing producers in the targeted territories. It notes, however, that implementation of these tools

poses a number of challenges. For example, planners and practitioners sometimes use them interchangeably, thus ignoring the specificities of the investments, policies and processes required, and their expected outcomes. The sourcebook concludes that these tools have potential for catalytic impact, but planners need to make sound choices that respect demonstrated principles and follow good practices for effective design and implementation.

Molecular Basis of Neuropsychiatric Disorders: from Bench to Bedside Shafiqur Rahman 2019-10-05 Progress in Molecular Biology and Translational Science, Volume 167, provides the most topical, informative and exciting monographs available on a wide variety of research topics related to Models and Biological Targets in Drug Discovery for Attention Deficit Hyperactivity Disorder, Novel Targets for Parkinson-Depression Co-morbidity. Utility of Cannabidiol (CBD) in Neuropsychiatric Disorders: A Short Review of the Recent Pre-clinical and Clinical Findings, The Many Sides of Microglia in Alcohol Use Disorders, Stress, Anxiety, Molecular Targets and More, Calcineurin Signaling in Psychiatric Disorders, Emerging Evidence for the Role of Pituitary Adenylate Cyclase-Activating Peptide (PACAP) in Neuropsychiatric Disorders, and more. Includes comprehensive coverage of molecular biology Presents ample use of tables, diagrams, schemata and color figures to enhance the reader's ability to rapidly grasp the information provided Contains contributions from renowned experts in the field

Inheritors of the Earth Chris D. Thomas 2017-07-06 It is accepted wisdom today that human beings have irrevocably damaged the natural world. Yet what if this narrative obscures a more hopeful truth? In *Inheritors of the Earth*, renowned ecologist and environmentalist Chris D. Thomas overturns the accepted story, revealing how nature is fighting back. Many animals and plants actually benefit from our presence, raising biological diversity in most parts of the world and increasing the rate at which new species are formed, perhaps to the highest level in Earth's history. From Costa Rican tropical forests to the thoroughly transformed British landscape, nature is coping surprisingly well in the human epoch. Chris Thomas takes us on a gripping round-the-world journey to meet the enterprising creatures that are thriving in the Anthropocene, from York's ochre-coloured comma butterfly to hybrid bison in North America, scarlet-beaked pukekos in New Zealand, and Asian palms forming thickets in the European Alps. In so doing, he questions our irrational persecution of so-called 'invasive species', and shows us that we should not treat the Earth as a faded masterpiece that we need to restore. After all, if life can recover from the asteroid that killed off the dinosaurs, might it not be able to survive the onslaughts of a technological ape? Combining a naturalist's eye for wildlife with an ecologist's wide lens, Chris Thomas forces us to re-examine humanity's relationship with nature, and reminds us that the story of life is the story of change.

Women and the Gift Economy Genevieve Vaughan 2007 *Women and the Gift Economy: A Radically Different Worldview is Possible* is an attempt to respond to the need for deep and lasting social change in an epoch of dangerous crisis for all humans, cultures, and the planet. Featuring articles by well-known feminist activists and academics, this book points to ways to re-create the connections, which have been severed, between the gift economy, women, and the economies of Indigenous peoples, and to bring forward the gift paradigm as an approach to liberate us from the worldview of the market that is destroying life on the planet. Shifting to a gift paradigm can give us the radically different worldview which will make another, better, world possible.

Crop Plant Anatomy Ratikanta Maiti 2012 Divided into four sections covering anatomy in relation to crop management, anatomical descriptions of the major crop plants, anatomical changes in adaptation to environments and the link between anatomy and productivity, this book provides a comprehensive source of crop plant anatomy information. The crop areas covered include cereals, pulses and beans, oil crops and fibre crops. Suitable for students, researchers and professionals in the field, this book brings together economic plant anatomy and crop productivity for the first time. It is suitable for students and researchers of crop scienc.

Cosmos & Culture Steven J. Dick 2009 From GPO Bookstore's Website: Authors with

diverse backgrounds in science, history, anthropology, and more, consider culture in the context of the cosmos. How does our knowledge of cosmic evolution affect terrestrial culture? Conversely, how does our knowledge of cultural evolution affect our thinking about possible cultures in the cosmos? Are life, mind, and culture of fundamental significance to the grand story of the cosmos that has generated its own self-understanding through science, rational reasoning, and mathematics? Book includes bibliographical references and an index.

Landscape as Infrastructure Pierre Belanger 2016-11-10 As ecology becomes the new engineering, the projection of landscape as infrastructure—the contemporary alignment of the disciplines of landscape architecture, civil engineering, and urban planning—has become pressing. Predominant challenges facing urban regions and territories today—including shifting climates, material flows, and population mobilities, are addressed and strategized here. Responding to the under-performance of master planning and over-exertion of technological systems at the end of twentieth century, this book argues for the strategic design of "infrastructural ecologies," describing a synthetic landscape of living, biophysical systems that operate as urban infrastructures to shape and direct the future of urban economies and cultures into the 21st century. Pierre Bélanger is Associate Professor of Landscape Architecture and Co-Director of the Master in Design Studies Program at Harvard University's Graduate School of Design. As part of the Department of Landscape Architecture and the Advanced Studies Program, Bélanger teaches and coordinates graduate courses on the convergence of ecology, infrastructure and urbanism in the interrelated fields of design, planning and engineering. Dr. Bélanger is author of the 35th edition of the Pamphlet Architecture Series from Princeton Architectural Press, GOING LIVE: from States to Systems (pa35.net), co-editor with Jennifer Sigler of the 39th issue of Harvard Design Magazine, Wet Matter, and co-author of the forthcoming volume ECOLOGIES OF POWER: Mapping Military Geographies & Logistical Landscapes of the U.S. Department of Defense. As a landscape architect and urbanist, he is the recipient of the 2008 Canada Prix de Rome in Architecture and the Curator for the Canada Pavilion at the Canadian Exhibition, "EXTRACTION," at the 2016 Venice Architecture Biennale (extraction.ca).

Plant Bioinformatics David Edwards 2015-11-03 The second edition of this volume focuses on applied bioinformatics with specific applications to crops and model plants. Plant Bioinformatics: Methods and Protocols is aimed at plant biologists who have an interest in, or requirement for, accessing and manipulating huge amounts of data being generated by high throughput technologies. This book would also be of interest to bioinformaticians and computer scientists who would benefit from an introduction to the different tools and systems available for plant research. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and software, step-by-step, readily reproducible protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and thorough, Plant Bioinformatics: Methods and Protocols helps researchers with the increasing volume and diversity of data from different plants and also the integration of multiple diverse forms of data.

International Farm Animal, Wildlife and Food Safety Law Gabriela Steier 2017-01-09 This volume is an inspiring and breakthrough piece of academic scholarship and the first of its kind featuring a comprehensive reader-friendly approach to teach the intricacies of the various aspects of international farm animal, wildlife conservation, food safety and environmental protection law. The selected focus areas are grouped in sections, such as agrobiodiversity, fishing and aquaculture, pollinators and pesticides, soil management, industrial animal production and transportation, and international food trade. Farm animal welfare, environmental protection, biodiversity conservation, and food safety are the core of the selected chapters. Every chapter provides real-world examples to make the complex field easy to understand. With its systematic approach, this book is devoted to anyone interested in the subject, becomes a valuable resource for professionals working in food regulation, and provides a solid foundation for courses and

master's programs in animal law, environmental policy, food and agriculture law, and regulation of these subjects around the world. Through its emphasis on sustainable food production, this work offers a cutting-edge selection of evolving topics at the heart of the pertinent discourse. As one of its highlights, this book also provides "Tools for Change," a unique compilation and analysis of laws from the major farm animal product trading nations. With these tools, practitioners, advocates, policy makers and other state-holders are equipped with information to start work toward improving farm animal welfare, wildlife conservation, and food safety through the use of law and policy.

Paediatric Intensive Care Peter Barry 2010-03-25 Paediatric Intensive Care gives practical and realistic advice for all those who care for critically ill children. Organised predominantly by system or speciality for easy reference, it also comprehensively covers the underlying principles that guide clinicians in every day practice.

The Leadership Challenge James M. Kouzes 2017-04-17 The most trusted source of leadership wisdom, updated to address today's realities The Leadership Challenge is the gold-standard manual for effective leadership, grounded in research and written by the premier authorities in the field. With deep insight into the complex interpersonal dynamics of the workplace, this book positions leadership both as a skill to be learned, and as a relationship that must be nurtured to reach its full potential. This new seventh edition has been revised to address current challenges, and includes more international examples and a laser focus on business issues; you'll learn how extraordinary leaders accomplish extraordinary things, and how to develop your leadership skills and style to deliver quality results every time. Engaging stories delve into the fundamental roles that great leaders fulfill, and simple frameworks provide a primer for those who seek continuous improvement; by internalizing key insights and putting concepts into action, you'll become a more effective, more impactful leader. A good leader gets things done; a great leader aspires, inspires, and achieves more. This book highlights the differences between good and great, and shows you how to bridge the chasm between getting things done and making things happen. Gain deep insight into leadership's critical role in organizational health Navigate the shift toward team-oriented work relationships Motivate and inspire to break through the pervasive new cynicism Leverage the electronic global village to deliver better results Business is evolving at an increasingly rapid rate, and leaders must keep pace with the changes or risk stagnation. People work differently, are motivated differently, and have different expectations today—business as usual is quickly losing its effectiveness. The Leadership Challenge helps you stay current, relevant, and effective in the modern workplace.

Obesity Michael G. Steelman 2016-04-19 Addressing a growing epidemic in today's world, Obesity: Evaluation and Treatment Essentials presents practical treatment protocols for obesity, including exercise, pharmacology, behavior modification, and dietary factors, from the point of view of the practicing physician.

Encompassing a multidisciplinary audience of clinicians and researcher
The Occult in Modernist Art, Literature, and Cinema Tessel M. Bauduin 2018-05-15 Many modernist and avant-garde artists and authors were fascinated by the occult movements of their day. This volume explores how Occultism came to shape modernist art, literature, and film. Individual chapters examine the presence and role of Occultism in the work of such modernist luminaries as Rainer Maria Rilke, August Strindberg, W.B. Yeats, Joséphin Péladan and the artist Jan Švankmaier, as well as in avant-garde film, post-war Greek Surrealism, and Scandinavian Retrogardism. Combining the theoretical and methodological foundations of the field of Esotericism Studies with those of Literary Studies, Art History, and Cinema Studies, this volume provides in-depth and nuanced perspectives upon the relationship between Occultism and Modernism in the Western arts from the nineteenth century to the present day.

The United Nations World Water Development Report 2020 UNESCO 2020-03-27 The 2020 edition of the WWDR, titled Water and Climate Change illustrates the critical linkages between water and climate change in the context of the broader

sustainable development agenda. Supported by examples from across the world, it describes both the challenges and opportunities created by climate change, and provides potential responses – in terms of adaptation, mitigation and improved resilience – that can be undertaken by enhancing water resources management, attenuating water-related risks, and improving access to water supply and sanitation services for all in a sustainable manner. It addresses the interrelations between water, people, environment and economics in a changing climate, demonstrating how climate change can be a positive catalyst for improved water management, governance and financing to achieve a sustainable and prosperous world for all. The report provides a fact-based, water-focused contribution to the knowledge base on climate change. It is complementary to existing scientific assessments and designed to support international political frameworks, with the goals of helping the water community tackle the challenges of climate change, and informing the climate change community about the opportunities that improved water management offers in terms of adaptation and mitigation.

The State of World Fisheries and Aquaculture 2020 FAO 2020-06-01 The 2020 edition of The State of World Fisheries and Aquaculture has a particular focus on sustainability. This reflects a number of specific considerations. First, 2020 marks the twenty-fifth anniversary of the Code of Conduct for Responsible Fisheries (the Code). Second, several Sustainable Development Goal indicators mature in 2020. Third, FAO hosted the International Symposium on Fisheries Sustainability in late 2019, and fourth, 2020 sees the finalization of specific FAO guidelines on sustainable aquaculture growth, and on social sustainability along value chains. While Part 1 retains the format of previous editions, the structure of the rest of the publication has been revised. Part 2 opens with a special section marking the twenty fifth anniversary of the Code. It also focuses on issues coming to the fore, in particular, those related to Sustainable Development Goal 14 and its indicators for which FAO is the “custodian” agency. In addition, Part 2 covers various aspects of fisheries and aquaculture sustainability. The topics discussed range widely, from data and information systems to ocean pollution, product legality, user rights and climate change adaptation. Part 3 now forms the final part of the publication, covering projections and emerging issues such as new technologies and aquaculture biosecurity. It concludes by outlining steps towards a new vision for capture fisheries. The State of World Fisheries and Aquaculture aims to provide objective, reliable and up-to-date information to a wide audience – policymakers, managers, scientists, stakeholders and indeed everyone interested in the fisheries and aquaculture sector.

Critical Mineral Resources of the United States K. J. Schulz 2017 As the importance and dependence of specific mineral commodities increase, so does the concern about their supply. The United States is currently 100 percent reliant on

foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities. Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security. However, a mineral commodity's importance and the nature of its supply chain can change with time; a mineral commodity that may not have been considered critical 25 years ago may be critical today, and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity's use; (2) the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity's production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on global mineral commodity supply chains. This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities.

The Irrigation and Water Supply Systems of Vijayanagara Dominic J. Davison-Jenkins 1997 In This Book, The Author Explores How, With A Unique Mixture Of Science And Art, The Vijayanagara Kings Mastered And Controlled The Water Available To Provide For The Many And Varied Needs Of The Population, Both Urban And Agricultural. There Is Also A Relevance To The Wider Issues Concerning The Development Of Hydraulic Technology In General And Particularly In The Context Of Urban Settlement.

Proceedings of Integrated Intelligence Enable Networks and Computing Krishan Kant Singh Mer 2021-04-23 This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.

Apothecary Anecdotes transon nguyen 2021-03-05 This book is a collection of the most unique and interesting anecdotes in the apothecary world and medicine. There is often a blurry line between history, mythology, and (urban) legends. This small book is a curated attempt to retell some of the most intriguing tales from the pharm.