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Popular Photography
Springer
A fully updated third edition of this classic textbook, containing two new chapters on numerical modelling supported by online MATLAB® codes.

Geodynamics
CRC Press
FOCUSING ON CONTAMINANT FATE AND TRANSPORT, DESIGN OF ENVIRONMENTAL-CONTROL SYSTEMS, AND REGULATORY CONSTRAINTS This textbook details the fundamental equations that describe the fate and transport of contaminantsin the water environment. The application

of these fundamental equations to the design of environmental-control systems and methodologies for assessing the impact of contaminant discharges into rivers, lakes, wetlands, groundwater, and oceans are all covered. Readers learn to assess how much waste can be safely assimilatedinto a water body by developing a solid understanding of the relationship between the type of pollutant discharged, the characteristics of the receiving water, and physical, chemical, and biological impacts. In cases of surface runoff from urban and agricultural watersheds, quantitative relationships between the quality of surface runoff and the characteristics of contaminant sources located within the watersheds are presented. Some of the text's distinguishing features include its emphasis on the engineering design of systems that control the fate and transport of contaminants in the water environment, the design of remediation systems, and regulatory constraints. Particular attention is given to use-attainability analyses and the estimation of total maximum daily loads, both of which are essential components of water-quality control in natural systems. Readers are provided with a thorough explanation of the complex set of laws and

regulations governing water-quality control in the United States. Proven as an effective textbook in several offerings of the author's class "Water Quality Control in Natural Systems," the flow of the text is carefully structured to facilitate learning. Moreover, a number of practical pedagogical tools are offered: * Practical examples used throughout the text illustrate the effects of controlling the quality, quantity, timing, and distribution of contaminant discharges into the environment * End-of-chapter problems, and an accompanying solutions manual, help readers assess their grasp of each topic as they progress through the text * Several appendices with useful reference material are provided, including current U.S. Water Quality Standards * Detailed bibliography guides readers to additional resources to explore particular topics in greater depth With its emphasis on contaminant fate and transport and design of en vironmental-control systems, this text is ideal for upper-level undergraduates and graduate students in environmental and civil engineering prog rams.Environme ntal scientists and practicing en vironmental/civil engineers will also find the text relevant and useful.

Fresh-Cut Fruits and Vegetables

Springer

The second edition of this handbook provides a s tate-of-the-art overview on the various aspects in the rapidly developing field of robotics. Reaching for the human frontier, robotics is vigorously engaged in the growing challenges of new emerging domains. Interacting, exploring, and working with humans, the new generation of robots will increasingly touch people and their lives. The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline. The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics. The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for

Excellence in Physical Sciences & Mathematics as well as the organization's Award for Engineering & Technology. The second edition of the handbook, edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors, continues to be an authoritative reference for robotics researchers, newcomers to the field, and scholars from related disciplines. The contents have been restructured to achieve four main objectives: the enlargement of foundational topics for robotics, the enlightenment of various types of robotic systems, the extension of the treatment on robots moving in the environment, and the enrichment of advanced robotics applications. Further to an extensive update, fifteen new chapters have been introduced on emerging topics, and a new generation of authors have joined

the handbook's team. A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos, which bring valuable insight into the contents. The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app. Springer Handbook of Robotics Multimedia Extension Portal: http://handbookofrobotics.org/

The Promise of Assistive Technology to Enhance Activity and Work Participation

Cheshire Books

This open access book was prepared as a Final Publication of the COST Action IC1406 "High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)" project. Long considered important pillars of the scientific method, Modelling and Simulation have evolved from traditional discrete numerical methods to complex data-intensive continuous analytical optimisations. Resolution, scale, and accuracy have become essential to predict and analyse natural and complex systems in science and engineering. When their level of abstraction raises to have a better discernment of the domain at hand, their representation gets increasingly demanding for

computational and data resources. On the other hand, High Performance Computing typically entails the effective use of parallel and distributed processing units coupled with efficient storage, communication and visualisation systems to underpin complex data-intensive applications in distinct scientific and technical domains. It is then arguably required to have a seamless interaction of High Performance Computing with Modelling and Simulation in order to store, compute, analyse, and visualise large data sets in science and engineering. Funded by the European Commission, cHiPSet has provided a dynamic trans-European forum for their members and distinguished guests to openly discuss novel perspectives and topics of interests for these two communities. This cHiPSet compendium presents a set of selected case studies related to healthcare, biological data, computational advertising, multimedia, finance, bioinformatics, and telecommunications.

Handbook of Industrial Drying

Fox Chapel Publishing

Winner of the 2005 Klinger Book Award Presented by The Society for Economic Botany. Florida Ethnobotany provides a cross-cultural examination of how the states native plants have been used by its various peoples. This compilation includes common names of plants in their historical sequence, weaving together what was formerly esoteri

Manual of Model Criminal Jury Instructions

Springer

The earth ' s biodiversity is a degree of

ecosystem health which is vital to ecology and environmental sustainability. The microbial world is the largest unexplored reservoir. The agro-ecosystem enriched with rhizosphere implicit abundant and species-rich component of microbial diversity. Its global exploration designs a worldwide framework for agricultural sustainability adjoining benefits in its conservation. Agricultural sustainability requires a major share from ecosystem management which is better paid by microbial diversity and conservation. Diversity of bacteria influences plant productivity providing nutrient convenience from soil instead altering per se community and diversity in the rhizosphere where they may influence mechanistic competent and antagonistic micro-flora. The potential species among the diversity are therefore, essential subjective to their maintenance for use around the globe. Microbial population in agro-ecosystem is influenced by stresses, reduce functionality as a component. It is therefore, important to explore secrets of planned strategy so as to unravel the microbial diversity and conservation in agricultural development. Microorganisms are minute, pervasive in nature and alleged as disease host instead tiny recognize as employee of agro-ecosystem, indulge in agricultural development and potential contributor in

world of ecological and economical wealth creation. This step pertinently would help to launch scientific motivation needed to support the refrain of microbial diversity and conservation.

Privilege and Property Cambridge University Press

A detailed look at the technology of wind generated power includes a comparison of various system designs, advice on assembling a wind power system, and an analysis of wind power availability in each state

Florida Ethnobotany Springer Science & Business Media

The aim of this book is to present the current state of the art of extracting natural products with near-critical solvents and to view the possibilities of further extensions of the technique. Relevant background theory is given but does not dominate the book. Carbon dioxide is the near-critical solvent used in most recent applications and inevitably receives prominence. In addition to general descriptions and reviews, the book contains three chapters by indus trial practitioners who describe in detail the operation of their processes and discuss the market for their products. Sections on the design of the pressure vessels and pumps required in these processes and on the acquisition of the data required for design are included. The costing of the processes is also discussed. There is good scope for combining a near-critical extraction step with other process steps in which the properties of near-critical solvents are utilised, for example as a reaction or crystallisation medium and a chapter is devoted to these important aspects. It is hoped that the work will be

found to contain a great deal of specific information of use to those already familiar with this field. However the style of presentation and content is such that it will also be useful as an introduction. In particular it will be helpful to those wondering if this form of separation method has anything to offer for them, whether they are engineers, chemists or managers in industry, or in academic or research institutions.

Immigration Law Handbook CRC Press

Learn how to make both minor and major DIY repairs and improvements that will save you money! No need to hire a plumber, especially in emergencies when you need an immediate fix. This best-selling guide on plumbing will teach you everything you need to know, from understanding how plumbing systems work and fixing a leaky faucet to making renovations, soldering copper, installing fixtures, and so much more. Featuring detailed how-to diagrams, code-compliant techniques, tips on how to spot and improve outdated or dangerous materials in your home plumbing system, and so much more, this newly updated edition features new code-compliant techniques for 2021, plus a new section on air gap fittings.

Stress Echocardiography Springer

It was only in 1980 that the first recognisable magnetic resonance images of the human brain were published, by Moore and Holland from

Nottingham University in England. There then followed a number of clinical trials of brain imaging, the most notable from the Hammersmith Hospital in London using a system designed by EMI, the original manufacturers of the first CT machines. A true revolution in medicine has ensued; in only a few years there are thousands of scanning units, and magnetic resonance imaging (MRI) has assumed a central importance in medical investigation. It is an extraordinary fact that within a few years of development, the esoteric physics of nuclear spin, angular momentum, and magnetic vector precession were harnessed to provide exquisite images of living anatomy; modem science has no greater tribute. That indisputable king of neurology and the oldest of recorded conditions, epilepsy, has not been untouched by the new technology; indeed, it is our view that the introduction of MRI of electroenc ephalography (EEG) in the late has been as important to epilepsy as was that 1930s. Now, for the first time, the structural and aetiological basis of the condition is susceptible to thorough investigation, and MRI can provide structural detail to parallel the functional detail of EEG. MRI has the same potential as had EEG over 50 years ago, to provide a new level of understanding of the basic mechanisms, the clinical features

and the treatment of epilepsy.

Water-Quality Engineering in Natural Systems John Wiley & Sons

What can and can't be copied is a matter of law, but also of aesthetics, culture, and economics. The act of copying, and the creation and transaction of rights relating to it, evokes fundamental notions of communication and censorship, of authorship and ownership - of privilege and property. This volume conceives a new history of copyright law that has its roots in a wide range of norms and practices. The essays reach back to the very material world of craftsmanship and mechanical inventions of Renaissance Italy where, in 1469, the German master printer Johannes of Speyer obtained a five-year exclusive privilege to print in Venice and its dominions. Along the intellectual journey that follows, we encounter John Milton who, in his 1644 Areopagitica speech 'For the Liberty of Unlicensed Printing', accuses the English parliament of having been deceived by the 'fraud of some old patentees and monopolizers in the trade of bookselling' (i.e. the London Stationers' Company). Later revisionary essays investigate the regulation of the printing press in the North American colonies as a provincial and somewhat crude version of European precedents, and how, in the revolutionary France of 1789, the subtle balance that the royal decrees had established between the interests of the author, the bookseller, and the public, was shattered by the abolition of the privilege system. Contributions also address the specific evolution of rights associated with the visual and performing arts. These essays provide essential reading for anybody interested in copyright, intellectual history and current public policy choices in intellectual property. The volume is a companion to the digital archive Primary Sources on Copyright (1450-1900), funded

by the UK Arts and Humanities Research Council (AHRC): www.copyrighthistory.org.

The Aggregates Handbook, Second Edition CRC Press

Fresh-cut Fruits and Vegetables: Science, Technology, and Market provides a comprehensive reference source for the emerging fresh-cut fruits and vegetables industry. It focuses on the unique biochemical, physiological, microbiological, and quality changes in fresh-cut processing and storage and on the distinct equipment design, packaging requirements, production economics, and marketing considerations for fresh-cut products. Based on the extensive research in this area during the past 10 years, this reference is the first to cover the complete spectrum of science, technology, and marketing issues related to this field, including production, processing, physiology, biochemistry, microbiology, safety, engineering, sensory, biotechnology, and economics. ABOUT THE EDITOR: Olusola Lamikanra, Ph.D., is a Research Chemist and Lead Scientist at the U.S. Department of Agriculture, Agricultural Research Service, Southern Regional Research Center, New Orleans, Louisiana. He received his B.S. degree from the University of Lagos, Nigeria, and his Ph.D. from the University of Leeds, England. He was Professor in the Division of Agricultural Sciences and Director of the Center for Viticultural Science and Small Farm Development at Florida A&M University, Tallahassee. Dr. Lamikanra is the author of more than 100 publications.

Handbook of African Medicinal Plants, Second Edition John Wiley & Sons

"This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an

overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this tec hnology."--Publisher 's website.

Springer Handbook of Robotics

CreateSpace

Bacterial diarrheal diseases remain an important leading cause of preventable death, especially among children under five in developing countries. In the American continent, diarrheal disease and other

health complications caused by Escherichia coli constitute a major public health problem, and, therefore, several research groups have dedicated their effort to understand this pathogen and provide feasible solutions to prevent, treat and reduce E. coli infections. The Latin American Coalition for Escherichia coli Research (LACER) was created as a multidisciplinary network of international research groups working with E. coli with the ultimate goal of advancing understanding of E. coli, and to prepare the next generation of American E. coli investigators. As such, this book compiles the knowledge of these investigators about E. coli, a commensal bacteria living inside its host, and a pathogen causing disease in animals and humans. Escherichia coli in the Americas contains a series of 15 chapters written by experts, covering basic concepts regarding the different categories of E. coli, including their environmental niche, virulence mechanisms, host reservoir, and disease outcomes, as well as diagnosis, vaccine development and treatment. This book's target audience include trainees and students learning about the basic and clinical aspects of E. coli pathogenesis, as well as experts around the globe who wish to learn more about this pathogen and the public health impact this bacteria has in America.

Microbial Diversity and Biotechnology in Food Security

Springer

The U.S. Census Bureau has reported that 56.7 million Americans had some type of disability in 2010, which represents 18.7 percent of the civilian noninstitutionalized population included in the 2010 Survey of Income and Program

Participation. The U.S. Social Security Administration (SSA) provides disability benefits through the Social Security Disability Insurance (SSDI) program and the Supplemental Security Income (SSI) program. As of December 2015, approximately 11 million individuals were SSDI beneficiaries, and about 8 million were SSI beneficiaries. SSA currently considers assistive devices in the nonmedical and medical areas of its program guidelines. During determinations of substantial gainful activity and income eligibility for SSI benefits, the reasonable cost of items, devices, or services applicants need to enable them to work with their impairment is subtracted from eligible earnings, even if those items or services are used for activities of daily living in addition to work. In addition, SSA considers assistive devices in its medical disability determination process and assessment of work capacity. The Promise of Assistive Technology to Enhance Activity and Work Participation provides an analysis of selected assistive products and technologies, including wheeled and seated mobility devices, upper-extremity prostheses, and products and technologies selected by the committee that pertain to hearing and to communication and speech in adults.

The Advertising Red Books: Business classifications Springer Nature

Mexico is an extensive country with an extremely complex mosaic of landscapes. The soils of Mexico have still not been completely studied, and there are few publications available on this subject. This book provides a state-of-the-art view on Mexican soils, their geographical distribution, their use and degradation. This is a first attempt to give a systematized characteristic of the soil resources of Mexico. Land resources of the second-biggest economy in Latin America are critical for its sustainable development, and a demand for adequate

soil information is high. The information contained within can be used for any soil-related research done in Mexico and in neighboring countries. The book includes detailed characteristics of soils of all the physiographic regions of Mexico with maps, photos and explanatory schemes. The book is based on the experiences of the authors in research and soil survey, as well as on the existent, mainly ' grey ' literature on Mexican soils. The book is recommended for researchers and university readers, students of all levels and decision-makers, working in the area of soil science, environmental issues, Earth sciences, land management and nature conservation.

Cephalopod Culture Springer Science & Business Media Fully updated and expanded to reflect recent advances, this Fourth Edition of the classic text provides students and professional chemists with an excellent introduction to the principles and general properties of organometallic compounds, as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications.

Antibiotics and Antimicrobial Resistance Genes National Geographic Books Cephalopod Culture is the first compilation of research on the culture of cephalopods. It describes experiences of culturing different groups of cephalopods: nautiluses, sepioids (Sepia officinalis, Sepia pharaonis, Sepiella inermis, Sepiella japonica Euprymna hyllebergi, Euprymna tasmanica), squids (Loligo vulgaris,

Doryteuthis opalescens, Sepioteuthis lessoniana) and octopods (Amphioctopus aegina, Enteroctopus megalocyathus, Octopus maya, Octopus mimus, Octopus minor, Octopus vulgaris, Robsonella fontaniana). It also includes the main conclusions which have been drawn from the research and the future challenges in this field. This makes this book not only an ideal introduction to cephalopod culture, but also a valuable resource for those already involved in this topic.

A history of architecture in all countries CRC Press

This Manual of Model Criminal Jury Instructions ("Manual") has been prepared to help judges communicate more effectively with juries.

Bacterial Diversity in Sustainable Agriculture Springer

Handbook of African Medicinal Plants, Second EditionCRC Press