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Heritage Building Information Modelling - Yusuf Arayici 2017-02-10

Building Information Modelling (BIM) is being debated, tested and implemented wherever you look across the built environment sector. This book is about Heritage Building Information Modelling (HBIM), which necessarily differs from the commonplace applications of BIM to new construction. Where BIM is being used, the focus is still very much on design and construction. However, its use as an operational and management tool for existing buildings, particularly heritage buildings, is lagging behind. The first of its kind, this book aims to clearly define the scope for HBIM and present cutting-edge research findings alongside international case studies, before outlining challenges for the future of HBIM research and practice. After an extensive introduction to HBIM, the core themes of the book are arranged into four parts: Restoration philosophies in practice Data capture and visualisation for maintenance and repair Building performance Stakeholder engagement This book will be a key reference for built environment practitioners, researchers, academics and students engaged in BIM, HBIM, building energy modelling, building surveying, facilities management and heritage conservation more widely.

Re-Engineering the Chemical Processing Plant - Andrzej Stankiewicz 2018-12-14

The first guide to compile current research and frontline developments in the science of process intensification (PI), *Re-Engineering the Chemical Processing Plant* illustrates the design, integration, and application of PI principles and structures for the development and optimization of chemical and industrial plants. This volume updates professionals on emerging PI equipment and methodologies to promote technological advances and operational efficacy in chemical, biochemical, and engineering environments and presents clear examples illustrating the implementation and application of specific process-intensifying equipment and methods in various commercial arenas.

Structural Mechanics - Frank Durka 1996

This classic text provides the theory of structures and design methods of structural members using elementary mathematics. The new edition has been brought up to date with British Standards, and the examples have also been updated.

Ex Situ Plant Conservation - Center for Plant Conservation 2013-02-22

Faced with widespread and devastating loss of biodiversity in wild habitats, scientists have developed innovative strategies for studying and protecting targeted plant and animal species in "off-site" facilities such as botanic gardens and zoos. Such ex situ work is an increasingly important component of conservation and restoration efforts. *Ex Situ Plant Conservation*, edited by Edward O. Guerrant Jr., Kayri Havens, and Mike Maunder, is the first book to address integrated plant conservation strategies and to examine the scientific, technical, and strategic bases of the ex situ approach. The book examines where and how ex situ investment can best support in situ conservation. *Ex Situ Plant Conservation* outlines the role, value, and limits of ex situ conservation as well as updating best management practices for the field, and is an invaluable resource for plant conservation practitioners at botanic gardens, zoos, and other conservation organizations; students and faculty in conservation biology and related fields; managers of protected areas and other public and private lands; and policymakers and members of the international community concerned with species conservation.

Land Use Intensification - Saul Cunningham 2012-07-18

There can be little doubt that there are truly colossal challenges associated with providing food, fibre and energy for an expanding world population without further accelerating already rapid rates of biodiversity loss and undermining the ecosystem processes on which we all depend. These challenges are further complicated by rapid changes in climate and its additional direct impacts on agriculture, biodiversity and ecological processes. There are many different viewpoints about the best way to deal with the myriad issues associated with land use intensification and this book canvasses a number of these from different parts of the tropical and temperate world. Chapters focus on whether science can suggest new and improved approaches to reducing the conflict between productive land use and biodiversity conservation. Who should read this book? Policy makers in regional, state and federal governments, as well as scientists and the interested lay public.

Philosophy for Children Through the Secondary Curriculum - Lizzy Lewis 2012-05-17

Philosophy for Children (P4C) is an approach to learning and teaching that aims to develop reasoning and judgement. Students learn to listen to and respect their peers' opinions, think creatively and work together to develop a deeper understanding of concepts central to their own lives and the subjects they are studying. With the teacher adopting the role of facilitator, a true community develops in which rich and meaningful dialogue results in enquiry of the highest order. Each chapter is written by a leading P4C expert and provides an introduction to the relationship between P4C and the subject area, lesson stimuli and activities for extending and deepening students' thinking. The book includes: • guidance on how to embed P4C in curriculum subjects in a crowded and demanding secondary curriculum timetable • troubleshooting advice for the teacher-turned-facilitator • a companion website containing useful links, downloadable resources and material to display on your interactive whiteboard. Edited and collated by the UK's leading P4C organisation, this book introduces a rationale for using and adapting P4C in the secondary curriculum.

Isotopes in the Water Cycle - Pradeep K. Aggarwal 2007-08-31

Environmental isotope and nuclear techniques provide unmatched insights into the processes governing the water cycle and its variability. This monograph presents state of the art applications and new developments of isotopes in hydrology, environmental disciplines and climate change studies. Coverage ranges from the assessment of groundwater resources in terms of recharge and flow regime to studies of the past and present global environmental and climate changes.

Entertainment for Education. Digital Techniques and Systems - Xiaopeng Zhang 2010-07-30

This book constitutes the refereed proceedings of the 5th International Conference on E-learning and Games, Edutainment 2010, held in Changchun, China, in August 2010. The 60 revised full papers presented were carefully reviewed and selected from 222 submissions. The papers are organized in topical sections on E-learning tools and platforms; E-learning system for education; E-learning environments and applications: game techniques for edutainment; multimedia techniques for edutainment; and computer animation and graphics for edutainment.

Dyneins - Stephen M. King 2011-06-25

Research on dyneins has a direct impact on human diseases, such as viruses and cancer. With an

accompanying website showing over 100 streaming videos of cell dynamic behavior for best comprehension of material, Dynein: Structure, Biology and Disease is the only reference covering the structure, biology and application of dynein research to human disease. From bench to bedside, Dynein: Structure, Biology and Disease offers research on fundamental cellular processes to researchers and clinicians across developmental biology, cell biology, molecular biology, biophysics, biomedicine, genetics and medicine. Broad-based up-to-date resource for the dynein class of molecular motors Chapters written by world experts in their topics Numerous well-illustrated figures and tables included to complement the text, imparting comprehensive information on dynein composition, interactions, and other fundamental features
Arts & Humanities Citation Index - 1992

Urban Services to Ecosystems - Chiara Catalano 2021-09-15

The aim of this book is to bring together multidisciplinary research in the field of green infrastructure design, construction and ecology. The main core of the volume is constituted by contributions dealing with green infrastructure, vegetation science, nature-based solutions and sustainable urban development. The green infrastructure and its ecosystem services, indeed, are gaining space in both political agendas and academic research. However, the attention is focused on the services that nature is giving for free to and for human health and survival. What if we start to see things from another perspective? Our actions shall converge for instance to turn man-made environment like cities from heterotrophic to autotrophic ecosystems. From landscape ecology to urban and building design, like bricks of a wall, from the small scale to the bigger landscape scale via ecological networks and corridors, we should start answering these questions: what are the services that are we offering to Nature? What are we improving? How to implement our actions? This book contains three Open Access chapters, which are licensed under the terms of the Creative Commons Attribution 4.0 International License (CC BY 4.0).

Index Medicus - 2002

Imaging Brain Function With EEG - Walter Freeman 2012-10-28

The scalp and cortex lie like pages of an open book on which the cortex enciphers vast quantities of information and knowledge. They are recorded and analyzed as temporal and spatial patterns in the electroencephalogram and electrocorticogram. This book describes basic tools and concepts needed to measure and decipher the patterns extracted from the EEG and ECoG. This book emphasizes the need for single trial analysis using new methods and paradigms, as well as large, high-density spatial arrays of electrodes for pattern sampling. The deciphered patterns reveal neural mechanisms by which brains process sensory information into precepts and concepts. It describes the brain as a thermodynamic system that uses chemical energy to construct knowledge. The results are intended for use in the search for the neural correlates of intention, attention, perception and learning; in the design of human brain-computer interfaces enabling mental control of machines; and in exploring and explaining the physicochemical foundation of biological intelligence.

Aquatic Dicotyledons of North America - Donald H. Les 2017-09-01

Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics brings together a wealth of information on the natural history, ecology, and systematics of North American aquatic plants. Most books on aquatic plants have a taxonomic focus and are intended primarily for identification. Instead, this book provides a comprehensive overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature, herbarium databases, and other reference materials. Included dicotyledon species are those having an obligate (OBL) wetland status, a designation used in the USACE National Wetland Plant List. Recent phylogenetic analyses are incorporated and rationale is provided for interpreting this information with respect to species relationships. This diverse assemblage of information will be useful to a wide range of interests including academic researchers, wildlife managers, students, and virtually anyone interested in the natural history of aquatic and wetland plants. Although focusing specifically on North America, the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well. This book is an essential resource for assisting with wetland delineation.

Stable Isotope Geochemistry - Jochen Hoefs 2013-04-17

Stable Isotope Geochemistry is an introduction to the use of stable isotopes in the fields of geoscience. It is subdivided into three parts: - theoretical and experimental principles; - fractionation mechanisms of light elements; - the natural variations of geologically important reservoirs. In this updated 4th edition many of the chapters have been expanded, especially those on techniques and environmental aspects. The main focus is on recent results and new developments. For students and scientists alike the book will be a primary reference with regard to how and where stable isotopes can be used to solve geological problems.
Microwave-Mediated Biofuel Production - Veera G. Gude 2017-08-22

This book focuses on chemical syntheses and processes for biofuel production mediated by microwave energy. This is the first contribution in this area serving as a resource and guidance manual for understanding the principles, mechanisms, design, and applications of microwaves in biofuel process chemistry. Green chemistry of microwave-mediated biofuel reactions and thermodynamic potentials for the process biochemistry are the focus of this book. Microwave generation, wave propagation, process design, development and configurations, and biofuel applications are discussed in detail.

Bats in the Anthropocene: Conservation of Bats in a Changing World - Christian C. Voigt 2015-12-07

This book focuses on central themes related to the conservation of bats. It details their response to land-use change and management practices, intensified urbanization and roost disturbance and loss. Increasing interactions between humans and bats as a result of hunting, disease relationships, occupation of human dwellings, and conflict over fruit crops are explored in depth. Finally, contributors highlight the roles that taxonomy, conservation networks and conservation psychology have to play in conserving this imperilled but vital taxon. With over 1300 species, bats are the second largest order of mammals, yet as the Anthropocene dawns, bat populations around the world are in decline. Greater understanding of the anthropogenic drivers of this decline and exploration of possible mitigation measures are urgently needed if we are to retain global bat diversity in the coming decades. This book brings together teams of international experts to provide a global review of current understanding and recommend directions for future research and mitigation.

Modeling of Physiological Flows - Davide Ambrosi 2012-10-31

This book offers a mathematical update of the state of the art of the research in the field of mathematical and numerical models of the circulatory system. It is structured into different chapters, written by outstanding experts in the field. Many fundamental issues are considered, such as: the mathematical representation of vascular geometries extracted from medical images, modelling blood rheology and the complex multilayer structure of the vascular tissue, and its possible pathologies, the mechanical and chemical interaction between blood and vascular walls, and the different scales coupling local and systemic dynamics. All of these topics introduce challenging mathematical and numerical problems, demanding for advanced analysis and efficient simulation techniques, and pay constant attention to applications of relevant clinical interest. This book is addressed to graduate students and researchers in the field of bioengineering, applied mathematics and medicine, wishing to engage themselves in the fascinating task of modeling the cardiovascular system or, more broadly, physiological flows.

Biological Database Modeling - Jake Chen 2008

Introduction to data modeling / Amandeep S. Sidhu, Jake Chen -- Public biological database for -omics studies in medicine / Viroj Wiwanitkit -- Modeling biomedical data / Ramez Elmasri, Feng Ji, and Jack Fu -- Fundamentals of gene ontology / Viroj Wiwanitkit -- Protein Ontology / Amandeep S. Sidhu, Tharam S. Dillon, and Elizabeth Chang -- Information quality management challenges for high-throughput data / Cornelia Hedeler and Paolo Missier -- Data management for fungal genomics: an experience report / Greg Butler [and others] -- Microarray data management: an enterprise information approach / Wily A. Valdvia-Granda, Christopher Dwan -- Data mangament in expression-based proteomics / Zhong Yan [and others] -- Model-driven drug discovery: principles and practices / Karthik Raman, Yeturu Kalidas, and Nagasuma Chandra -- Information mangament and interaction in high-throughput screening for drug discovery / Preeti Malik [and others].

Major Evolutionary Transitions in Flowering Plant Reproduction - Spencer C. H. Barrett 2008-11-28

The first volume to address the study of evolutionary transitions in plants, Major Evolutionary Transitions in

Flowering Plant Reproduction brings together compelling work from the three areas of significant innovation in plant biology: evolution and adaptation in flowers and pollination, mating patterns and gender strategies, and asexual reproduction and polyploidy. Spencer C. H. Barrett assembles here a distinguished group of authors who address evolutionary transitions using comparative and phylogenetic approaches, the tools of genomics, population genetics, and theoretical modeling, and through studies in development and field experiments in ecology. With special focus on evolutionary transitions and shifts in reproductive characters—key elements of biological diversification and research in evolutionary biology—Major Evolutionary Transitions in Flowering Plant Reproduction is the most up-to-date treatment of a fast-moving area of evolutionary biology and ecology.

Embryology of Angiosperms - B. M. Johri 2012-12-06

Thirty-four years have elapsed since the publication of the late Professor P. Maheshwari's text, An Introduction to the Embryology of Angiosperms, a work which for many years served as an invaluable guide for students and a rich source book for research workers. Various texts dealing with sections of the broad spectrum of topics encompassed by Maheshwari in his book have appeared in the interim, but a compendious modern work dealing with the whole field has been lacking. This present volume splendidly meets the need, and it is altogether fitting that Professor B. M. Johri, long an associate and close colleague of Professor Maheshwari and himself a prolific contributor to the subject, should have undertaken the task of editing it. When Maheshwari wrote, it was still feasible for one author to handle the subject, but today even someone with his fine breadth of vision and depth of understanding could not, alone, do it justice. So the effort has to be a collaborative one; and Professor Johri's achievement has been to bring together a team of authoritative collaborators, assign them their responsibilities, and put them to work to produce a text as integrated in its treatment as the diversity of the subject would allow. The product vividly illustrates the advances that have been made in the study of angiosperm reproductive systems in the last 30 years, and the book is surely destined to become the new standard for student and researcher alike.

Steel Structures - Hassan Al Nageim 2017-12-21

The third edition of this popular book now contains references to both Eurocodes and British Standards, as well as new and revised examples, and sections on sustainability, composite columns and local buckling. Initial chapters cover the essentials of structural engineering and structural steel design, whilst the remainder of the book is dedicated to a detailed examination of the analysis and design of selected types of structures, presenting complex designs in an understandable and user-friendly way. These structures include a range of single and multi-storey buildings, floor systems and wide-span buildings. Emphasis is placed on practical design with a view to helping undergraduate students and newly qualified engineers bridge the gap between academic study and work in the design office. Experienced engineers who need a refresher course on up-to-date methods of design and analysis will also find the book useful.

Light Agricultural and Industrial Structures - G. Nelson 2012-12-06

This book is an outgrowth of a much earlier book, Farm Structures, by H. J. Barre and L. L. Sammet, published by John Wiley & Sons in 1950 as one of a series of textbooks in agricultural engineering sponsored by the Ferguson Foundation, Detroit, Michigan. Light Agricultural and Industrial Structures: Analysis and Design will be useful as an undergraduate student textbook for junior- or senior-level comprehensive courses on structural analysis and design in steel, wood, and concrete, and as a reference work for practicing engineers. Emphasis is on basic analysis and design procedures. The book should be useful in any country where there is a need to design structures for agricultural production and processing. It is assumed that readers have had prerequisite course work in engineering mechanics and strength of materials as typically taught to undergraduate engineering students. The scope of this book is wide; it might be difficult for instructors and students to cover all of the chapters in a typical three credit-hour course. The instructor will need to assess his own situation and scheduling constraints. More or less time could be spent on chapters one through five, depending on the capability the students already have in analysis of statically determinate and indeterminate structures. Two to three weeks might then be allocated for study of each of the last six chapters dealing with design in steel, reinforced concrete, and wood.

Religion and Education: Framing and Mapping a Field - Stephen G. Parker 2019-08-26

This first issue of the Brill Research Perspectives in Religion and Education makes the case for 'religion and education' as a distinct but cross-disciplinary field of inquiry. Authors argue for and outline the particular insights to be gleaned about 'religion and education' on the basis of their commitment to particular methodologies involved in its study, namely the historical, philosophical, sociological and psychological.

Neural Engineering - Bin He 2013-01-09

Neural Engineering, 2nd Edition, contains reviews and discussions of contemporary and relevant topics by leading investigators in the field. It is intended to serve as a textbook at the graduate and advanced undergraduate level in a bioengineering curriculum. This principles and applications approach to neural engineering is essential reading for all academics, biomedical engineers, neuroscientists, neurophysiologists, and industry professionals wishing to take advantage of the latest and greatest in this emerging field.

Chromatographic Methods in Clinical Chemistry and Toxicology - Roger Bertholf 2007-01-30

This book aims to fill the gap that exists between theoretical treatments of chromatography, and clinical chemistry and toxicology texts, which focus almost exclusively on clinical relevance and applications. Chromatography has a vast array of clinical applications, and though the chromatographic methods were first introduced decades ago, new applications of this technology are being used to explore previously inaccessible frontiers in clinical diagnostics and toxicological testing. An up-to-date book devoted to clinical and toxicological applications of chromatographic methods will serve as an instructional and reference text, useful to students, laboratory technicians, and researchers.

Proceedings - 2001

Linux Dictionary - Binh Nguyen

This document is designed to be a resource for those Linux users wishing to seek clarification on Linux/UNIX/POSIX related terms and jargon. At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently available. Due to the rapid rate at which new terms are being created it has been decided that this will be an active project. We welcome input into the content of this document. At this moment in time half yearly updates are being envisaged. Please note that if you wish to find a 'Computer Dictionary' then see the 'Computer Dictionary Project' at <http://computerdictionary.tsf.org.za/> Searchable databases exist at locations such as: <http://www.swpearl.com/eng/scripts/dictionary/> (SWP) Sun Wah-Pearl Linux Training and Development Centre is a centre of the Hong Kong Polytechnic University, established in 2000. Presently SWP is delivering professional grade Linux and related Open Source Software (OSS) technology training and consultant service in Hong Kong. SWP has an ambitious aim to promote the use of Linux and related Open Source Software (OSS) and Standards. The vendor independent positioning of SWP has been very well perceived by the market. Throughout the last couple of years, SWP becomes the Top Leading OSS training and service provider in Hong Kong. <http://www.geona.com/dictionary?b=> Geona, operated by Gold Vision Communications, is a new powerful search engine and internet directory, delivering quick and relevant results on almost any topic or subject you can imagine. The term "Geona" is an Italian and Hebrew name, meaning wisdom, exaltation, pride or majesty. We use our own database of spidered web sites and the Open Directory database, the same database which powers the core directory services for the Web's largest and most popular search engines and portals. Geona is spidering all domains listed in the non-adult part of the Open Directory and millions of additional sites of general interest to maintain a fulltext index of highly relevant web sites. <http://www.linuxdig.com/documents/dictionary.php> LINUXDIG.COM, "Yours News and Resource Site", LinuxDig.com was started in May 2001 as a hobby site with the original intention of getting the RFC's online and becoming an Open Source software link/download site. But since that time the site has evolved to become a RFC distribution site, linux news site and a locally written technology news site (with bad grammar :) with focus on Linux while also containing articles about anything and everything we find interesting in the computer world. LinuxDig.Com contains about 20,000 documents and this number is growing everyday! <http://linux.about.com/library/glossary/blglossary.htm> Each month more than 20 million people visit About.com. Whether it be home repair and decorating ideas, recipes, movie trailers, or car buying tips, our Guides offer practical advice and solutions for every day life. Wherever you land on the new

About.com, you'll find other content that is relevant to your interests. If you're looking for "How To" advice on planning to re-finish your deck, we'll also show you the tools you need to get the job done. If you've been to About before, we'll show you the latest updates, so you don't see the same thing twice. No matter where you are on About.com, or how you got here, you'll always find content that is relevant to your needs. Should you wish to possess your own localised searchable version please make use of the available "dict", <http://www.dict.org/> version at the Linux Documentation Project home page, <http://www.tldp.org/> The author has decided to leave it up to readers to determine how to install and run it on their specific systems. An alternative form of the dictionary is available at:

<http://elibrary.fultus.com/covers/technical/linux/guides/Linux-Dictionary/cover.html> Fultus Corporation helps writers and companies to publish, promote, market, and sell books and eBooks. Fultus combines traditional self-publishing practices with modern technology to produce paperback and hardcover print-on-demand (POD) books and electronic books (eBooks). Fultus publishes works (fiction, non-fiction, science fiction, mystery, ...) by both published and unpublished authors. We enable you to self-publish easily and cost-effectively, creating your book as a print-ready paperback or hardcover POD book or as an electronic book (eBook) in multiple eBook's formats. You retain all rights to your work. We provide distribution to bookstores worldwide. And all at a fraction of the cost of traditional publishing. We also offer corporate publishing solutions that enable businesses to produce and deliver manuals and documentation more efficiently and economically. Our use of electronic delivery and print-on-demand technologies reduces printed inventory and saves time. Please inform the author as to whether you would like to create a database or an alternative form of the dictionary so that he can include you in this list. Also note that the author considers breaches of copyright to be extremely serious. He will pursue all claims to the fullest extent of the law.

Advances in Neuroergonomics and Cognitive Engineering - Hasan Ayaz 2020-06-27

This book offers broad overview of the field of cognitive engineering and neuroergonomics, covering emerging practices and future trends toward the harmonious integration of human operators and computer systems. It presents novel theoretical findings on mental workload and stress, activity theory, human reliability, error and risk, and a wealth of cutting-edge applications, such as strategies to make assistive technologies more user-oriented. Further, the book describes key advances in our understanding of cognitive processes, including mechanisms of perception, memory, reasoning, and motor response, with a particular focus on their role in interactions between humans and other elements of computer-based systems. Gathering the proceedings of the AHFE 2020 Virtual Conferences on Neuroergonomics and Cognitive Engineering, and Industrial Cognitive Ergonomics and Engineering Psychology, held on 16-20 July 2020, this book provides extensive and timely information for human-computer interaction researchers, human factors engineers and interaction designers, as well as decision-makers.

Dyneins - Stephen M. King 2017-11-28

Dyneins: Structure, Biology and Disease, Second Edition, offers a broad view of dyneins mechanics, dysfunction, and disease, providing an overview of dyneins from structure and function, to dysfunction and disease. Since the first edition, enormous strides have been taken in understanding dynein structure, its organization in the axoneme, single molecule motor mechanics, and the consequences of defects for human biology, disease, and development. To account for these enormous strides, the second edition is extensively revised. Additionally, the coverage has expanded from 24 to 42 chapters, and is now housed in two volumes. Much of the expanded coverage occurs in Volume 2 which focuses on dynein dysfunction and disease, such as the role of dynein and cancer. Volume 1 covers the history and evolution of dyneins, dyneins in ciliary biology, and cytoplasmic dynein biology, while Volume 2 covers the structure and mechanics of dynein motors and dynein dysfunction and disease. Presents a broad-based and up-to date view of dynein mechanics, dysfunction, and disease Contains approaches from genetics, molecular biology, biochemistry, and biophysics discussed Provides companion website with movies of dynamic cell behavior Includes extensive chapters written by leading, global experts

Conservation by Proxy - Tim Caro 2010-06-23

The vast scope of conservation problems has forced biologists and managers to rely on "surrogate" species to serve as shortcuts to guide their decision making. These species-known by a host of different terms,

including indicator, umbrella, and flagship species-act as proxies to represent larger conservation issues, such as the location of biodiversity hotspots or general ecosystem health. Synthesizing an immense body of literature, conservation biologist and field researcher Tim Caro offers systematic definitions of surrogate species concepts, explores biological theories that underlie them, considers how surrogate species are chosen, critically examines evidence for and against their utility, and makes recommendations for their continued use. The book clarifies terminology and contrasts how different terms are used in the real world considers the ecological, taxonomic, and political underpinnings of these shortcuts identifies criteria that make for good surrogate species outlines the circumstances where the application of the surrogate species concept shows promise Conservation by Proxy is a benchmark reference that provides clear definitions and common understanding of the evidence and theory behind surrogate species. It is the first book to review and bring together literature on more than fifteen types of surrogate species, enabling us to assess their role in conservation and offering guidelines on how they can be used most effectively.

Rural Structures in the Tropics - Geoffrey C. Mrema 2011-01-01

"This book is an effort by FAO to compile an up-to-date, comprehensive text on rural structures and services in the tropics, focusing on structures for small- to medium-scale farms and, to some extent, village-scale agricultural infrastructure. The earlier edition, entitled Farm structures in tropical climates: a textbook for structural engineering and design, published in 1986, has been used for over two decades as a standard textbook for teaching undergraduate and postgraduate courses on rural structures and services in universities throughout sub-Saharan Africa. This second edition will help to improve teaching - at all educational levels - on the subject of rural buildings in developing countries in the tropics and it will assist professionals currently engaged in providing technical advice on rural structures and services, from either agricultural extension departments or non-governmental rural development organizations. This book will also provide technical guidance in the context of disaster recovery and rehabilitation, for rebuilding the sound rural structures and related services that are key to development and economic sustainability. While this book is intended primarily for teaching university - and college-level agricultural engineering students about rural structures and services, resources might be made available to produced textbooks based on this material for teaching at other educational levels. Although parts of the background material relate specifically to East and Southeast Africa, the book's principles apply to the whole of tropical Africa, Latin America and South Asia because, while building traditions may vary, the available materials are similar."-- Back cover.

International Handbook of Inter-religious Education - Kath Engebretson 2010-08-17

This Handbook is based on the conviction of its editors and contributing authors that understanding and acceptance of, as well as collaboration between religions has essential educational value. The development of this Handbook rests on the further assumption that interreligious education has an important role in elucidating the global demand for human rights, justice, and peace. Interreligious education reveals that the creeds and holy books of the world's religions teach about spiritual systems that reject violence and the individualistic pursuit of economic and political gain, and call their followers to compassion for every human being. It also seeks to lead students to an awareness that the followers of religions across the world need to be, and to grow in, dialogical relationships of respect and understanding. An essential aim of interreligious education is the promotion of understanding and engagement between people of different religions and, therefore, it has great potential to contribute to the common good of the global community. Interreligious education has grown from the interfaith movement, whose beginning is usually identified with the World Parliament of Religions held in Chicago in 1893. This was the first time in history that leaders of the eastern and western religions had come together for dialogue, and to consider working together for global unity.

N-Heterocyclic Carbenes - Silvia Diez-Gonzalez 2016-11-04

In less than 20 years N-heterocyclic carbenes (NHCs) have become well-established ancillary ligands for the preparation of transition metal-based catalysts. This is mainly due to the fact that NHCs tend to bind strongly to metal centres, avoiding the need of excess ligand in catalytic reactions. Also, NHC-metal complexes are often insensitive to air and moisture, and have proven remarkably resistant to oxidation. This book showcases the wide variety of applications of NHCs in different chemistry fields beyond being simple

phosphine mimics. This second edition has been updated throughout, and now includes a new chapter on NHC–main group element complexes. It covers the synthesis of NHC ligands and their corresponding metal complexes, as well as their bonding and stereoelectronic properties and applications in catalysis. This is complemented by related topics such as organocatalysis and biologically active complexes. Written for organic and inorganic chemists, this book is ideal for postgraduates, researchers and industrialists.

Ecometabolomics - Sumira Jan 2019-03-10

Ecometabolomics: Metabolic Fluxes versus Environmental Stoichiometry focuses on the interaction between plants—particularly plants that have vigorous secondary metabolites—and the environment. The book offers a comprehensive overview of the responses of the metabolome of organisms to biotic and abiotic environmental changes. It includes an introduction to metabolomics, summaries of metabolomic techniques and applications, studies of stress in plants, and insights into challenges. This is a must-have reference for plant biologists, plant biochemists, plant ecologists and phytochemists researching the interface between plants and the environment using metabolomics. Provides an in-depth overview of the basics of the discipline, including non-targeted analysis and quantification of plant metabolites. Outlines the applications of various analytical techniques in comprehending the total metabolome of the organism.

Covers both NMR and MS-based approaches

DOE Translation List - United States. Department of Energy. Technical Information Center 1977

Electroencephalography and Magnetoencephalography - George Dassios 2020-06-08

Electroencephalography and magnetoencephalography are the two most efficient techniques to study the functional brain. This book completely answers the fundamental mathematical question of uniqueness of the representations obtained using these techniques, and also covers many other concrete results for special geometric models of the brain, presenting the research of the authors and their groups in the last two decades.

Ecology of Central European Forests - Christoph Leuschner 2017-09-22

This handbook in two volumes synthesises our knowledge about the ecology of Central Europe's plant cover

with its 7000-yr history of human impact, covering Germany, Poland, the Netherlands, Belgium, Luxembourg, Switzerland, Austria, Czech Republic and Slovakia. Based on a thorough literature review with 5500 cited references and nearly 1000 figures and tables, the two books review in 26 chapters all major natural and man-made vegetation types with their climatic and edaphic influences, the structure and dynamics of their communities, the ecophysiology of important plant species, and key aspects of ecosystem functioning. Volume I deals with the forests and scrub vegetation and analyses the ecology of Central Europe's tree flora, whilst Volume II is dedicated to the non-forest vegetation covering mires, grasslands, heaths, alpine habitats and urban vegetation. The consequences of over-use, pollution and recent climate change over the last century are explored and conservation issues addressed.

Structural Analysis - R. C. Hibbeler 2012

Structural Analysis, 8e, provides readers with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphasis is placed on teaching readers to both model and analyze a structure. Procedures for Analysis, Hibbeler's problem solving methodologies, provides readers with a logical, orderly method to follow when applying theory.

Invasion Biology - Jonathan M Jeschke 2018-04-25

There are many hypotheses describing the interactions involved in biological invasions, but it is largely unknown whether they are backed up by empirical evidence. This book fills that gap by developing a tool for assessing research hypotheses and applying it to twelve invasion hypotheses, using the hierarchy-of-hypotheses (HoH) approach, and mapping the connections between theory and evidence. In Part 1, an overview chapter of invasion biology is followed by an introduction to the HoH approach and short chapters by science theorists and philosophers who comment on the approach. Part 2 outlines the invasion hypotheses and their interrelationships. These include biotic resistance and island susceptibility hypotheses, disturbance hypothesis, invasional meltdown hypothesis, enemy release hypothesis, evolution of increased competitive ability and shifting defence hypotheses, tens rule, phenotypic plasticity hypothesis, Darwin's naturalization and limiting similarity hypotheses and the propagule pressure hypothesis. Part 3 provides a synthesis and suggests future directions for invasion research.