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Transcranial Direct Current Stimulation in Neuropsychiatric Disorders
Innovative Product Design and Intelligent Manufacturing Systems
Biochemistry and Molecular Biology Compendium
Games for Health
Routledge Handbook of Transport in Asia
Transforming Global Information and Communication Markets
Fluid Machinery and Fluid Mechanics
In-line/on-line Digital Signal Processing with Field Programmable Gate Arrays
Real-time Linked Dataspaces
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Nanotechnology Characterization Tools for Tissue Engineering and Medical Therapy
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Overview of Information Literacy Resources Worldwide
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Aspects of Underground Construction in Soft Ground
The Spectrum Handbook
2018
VMware VSphere 6.5 Host Resources Deep Dive
Epigenetics in Plants of Agronomic Importance: Fundamentals and Applications

Transcranial Direct Current Stimulation in Neuropsychiatric Disorders

The proceeding is a collection of research papers presented at the International Conference on Data Engineering 2013 (DaEng-2013), a conference dedicated to address the challenges in the areas of database, information retrieval, data mining and knowledge management, thereby presenting a consolidated view to the interested researchers in the aforesaid fields. The goal of this conference was to bring together researchers and practitioners from academia and industry to focus on advanced on data engineering concepts and establishing new collaborations in these areas. The topics of interest are as follows but are not limited to:

- Database theory
- Data management
- Data mining and warehousing
- Data privacy & security
- Information retrieval, integration and visualization
- Information system
- Knowledge discovery in databases
- Mobile, grid and cloud computing
- Knowledge-based
- Knowledge management
- Web data, services and intelligence

Innovative Product Design and Intelligent Manufacturing

Systems

This public domain book is an open and compatible implementation of the Uniform System of Citation.

Biochemistry and Molecular Biology Compendium

This textbook focuses specifically on the combined topics of irrigation and drainage engineering. It emphasizes both basic concepts and practical applications of the latest technologies available. The design of irrigation, pumping, and drainage systems using Excel and Visual Basic for Applications programs are explained for both graduate and undergraduate students and practicing engineers. The book emphasizes environmental protection, economics, and engineering design processes. It includes detailed chapters on irrigation economics, soils, reference evapotranspiration, crop evapotranspiration, pipe flow, pumps, open-channel flow, groundwater, center pivots, turf and landscape, drip, orchards, wheel lines, hand lines, surfaces, greenhouse hydroponics, soil water movement, drainage systems design, drainage and wetlands contaminant fate and transport. It contains summaries, homework problems, and color photos. The book draws from the fields of fluid mechanics, soil physics, hydrology, soil chemistry, economics, and plant sciences to present a broad interdisciplinary view of the fundamental concepts in

irrigation and drainage systems design.

Games for Health

In its second edition, *Inline/Online: Fundamentals of the Internet and the World Wide Web* continues to offer students an entertaining and pedagogically superior introduction to the Internet, Web Design, and HTML coding in textbook format. This new edition features enhanced coverage of FTP, discussion of a wider array of search engines, new material on cascading style sheets, and an expanded and up-to-the-minute presentation of the current state of e-commerce. Outside of the classroom, this book remains an excellent resource for anyone who is interested in recent computing developments, online information, and the Internet as the new social and economic frontier. *Inline/Online* distinguishes itself as a text by offering an in-depth treatment of the Internet for non-computer specialists, thus making it accessible to students from all majors. E-mail, Newsgroups/Mailing Lists, web programming, electronic publishing, and search engines are among the topics authors Ray Greenlaw and Ellen Hepp cover with flair and a sense of their relationship to real-world applications. Students begin by learning the basics of e-mail and by the end of the course have the skills to publish their own well-designed web pages. In addition, the book contains over 500 exercises, many of them new to the second edition, which allow the reader test and refine their new skills online. An Online Learning Center accompanies the book and offers an array of

supplementary materials such as HTML examples, useful links, and rendered code from the book. McGraw-Hill's Page Out allows professors to customize the site by including their own course syllabus, a list of students, grading information, assignments, projects, and more.

Routledge Handbook of Transport in Asia

Sets the stage for the development of better diagnostic techniques and therapeutics Featuring contributions from an international team of leading clinicians and biomedical researchers, *Molecular Basis of Oxidative Stress* reviews the molecular and chemical bases of oxidative stress, describing how oxidative stress can lead to the development of cancer and cardiovascular and neurodegenerative diseases. Moreover, it explains the potential role of free radicals in both the diagnosis and the development of therapeutics to treat disease. *Molecular Basis of Oxidative Stress* is logically organized, beginning with a comprehensive discussion of the fundamental chemistry of reactive species. Next, the book: Presents new mechanistic insights into how oxidative damage of biomolecules occurs Examines how these oxidative events effect cellular metabolism Investigates the role of oxidative stress in the pathogenesis of cancer, neurodegenerative disease, cardiovascular disease, and cystic fibrosis Explores opportunities to improve the diagnosis of disease and the design of new therapeutic agents Readers will find much novel information, including new

radical chemistries and the latest discoveries of how free radicals react with biomolecules. The contributors also present recent findings that help us better understand the initiation of oxidative stress and the mechanisms leading to the pathogenesis of various diseases. Throughout the book, the use of molecular structures helps readers better understand redox chemistry. In addition, plenty of detailed figures illustrate the mechanisms of oxidative stress and disease pathogenesis. Examining everything from the basic chemistry of oxidative stress to the pathogenesis of disease, *Molecular Basis of Oxidative Stress* will help readers continue to explore the nature of oxidative stress and then use that knowledge to develop new approaches to prevent, detect, and treat a broad range of disease conditions.

Transforming Global Information and Communication Markets

Updated handbook to explain the fundamental business, legal, and technical issues surrounding electromagnetic spectrum use today.

Fluid Machinery and Fluid Mechanics

* Major update of Sutphin's successful *AutoCAD 2000 Programmer's Reference*. * *Introduction to Visual Basic* allows use by experienced AutoCAD developers who

are new to programming. * Comprehensive coverage of the AutoCAD object model.
* New coverage of AutoCAD 2000 features including file and security programming, customizing the IDE and accessing the Win32 API.

In-line/on-line

Over the past decades, chromatin remodelling has emerged as an important regulator of gene expression and plant defense. This book provides a detailed understanding of the epigenetic mechanisms involved in plants of agronomic importance. The information presented here is significant because it is expected to provide the knowledge needed to develop in the future treatments to manipulate and selectively activate/inhibit proteins and metabolic pathways to counter pathogens, to treat important diseases and to increase crop productivity. New approaches of this kind and the development of new technologies will certainly increase our knowledge of currently known post-translational modifications and facilitate the understanding of their roles in, for example, host-pathogen interactions and crop productivity. Furthermore, we provide important insight on how the plant epigenome changes in response to developmental or environmental stimuli, how chromatin modifications are established and maintained, to which degree they are used throughout the genome, and how chromatin modifications influence each another.

Digital Signal Processing with Field Programmable Gate Arrays

Real-time Linked Dataspaces

Advances in Endophytic Fungal Research

The aim of this book is to provide a comprehensive review of the use of Transcranial Direct Current Stimulation (tDCS) in different psychiatric conditions. Here we review tDCS clinical studies employing different types of design (from single-session tDCS studies to randomized clinical trials) as well as studies evaluating the impact of tDCS in neurophysiological, behavioral and brain imaging outcomes. Although the understanding about physiological foundations and effectiveness of clinical therapies of psychiatric diseases has been considerably increased during the last decades, our knowledge is still limited, and consequently psychiatric diseases are still a major burden to the individual patient and society. Recently, interest in pathological alterations of neuroplasticity in psychiatric diseases as a critical condition for development, and amelioration of clinical symptoms increased, caused by the fact that new tools, such as functional imaging, and brain stimulation techniques do allow to monitor, and modulate these

phenomena in humans. Especially non-invasive brain stimulation techniques evolved as an attractive potential new therapeutic tool. The interest in non-invasive brain stimulation has grown exponentially in the past 25 years, with the development of non-pharmacological, neuromodulatory techniques such as tDCS and repetitive transcranial magnetic stimulation (rTMS). TDCS, although even newer than rTMS, has attracted considerable attention in both basic and clinical research scenarios. In the context of clinical research, tDCS is being increasingly investigated as a novel treatment tool for several psychiatric disorders, such as major depression, schizophrenia and neurocognitive and substance abuse disorders. Transcranial Direct Current Stimulation in Neuropsychiatric Disorders – Clinical Principles and Management intends to serve as a practical guide on the field, attracting the interest of psychiatrists, neurologists and neuroscientists with little or no experience with tDCS, as well as those with a background on tDCS who want to increase their knowledge in any particular psychiatric condition.

What Works on Wall Street

This book presents the state-of-the-art in plant ecophysiology. With a particular focus on adaptation to a changing environment, it discusses ecophysiology and adaptive mechanisms of plants under climate change. Over the centuries, the incidence of various abiotic stresses such as salinity, drought, extreme temperatures, atmospheric pollution, metal toxicity due to climate change have

regularly affected plants and, and some estimates suggest that environmental stresses may reduce the crop yield by up to 70%. This in turn adversely affects the food security. As sessile organisms, plants are frequently exposed to various environmental adversities. As such, both plant physiology and plant ecophysiology begin with the study of responses to the environment. Provides essential insights, this book can be used for courses such as Plant Physiology, Environmental Science, Crop Production and Agricultural Botany. Volume 1 provides up-to-date information on the impact of climate change on plants, the general consequences and plant responses to various environmental stresses.

Alan Wake

Welcome to Bright Falls—a seemingly idyllic small town in the Pacific Northwest. The perfect place for Alan Wake, a bestselling crime novelist, and his wife, Alice, to relax for a few weeks. Maybe a second honeymoon and the fresh air will cure Wake of his writer's block. But when Alice goes missing under mysterious circumstances, Wake's desperate search for her leads him into a hell only he could imagine. In the depths of nearby Cauldron Lake, a dark and malevolent presence has awakened from a long slumber. It's reaching out now, turning the townsfolk into mindless killers. Sheathed in shadows, vulnerable only to light, they are Taken. Wake's journey will lead him to the very edge of madness, and deep within the dark woods, he will come face-to-face with a story he has no recollection of ever writing.

AutoCAD 2004 VBA

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Humpty Dumpty

Environmental Plant Physiology focuses on the physiology of plant-environment interactions, revealing plants as the key terrestrial intersection of the biosphere, atmosphere, hydrosphere and geosphere. It provides a contemporary understanding of the topic by focusing on some of humankind's fundamental biological, agricultural and environmental challenges. Its chapters identify thirteen key environmental variables, grouping them into resources, stressors and pollutants, and leading the reader through how they challenge plants and how plants respond at molecular, physiological, whole plant and ecological levels. The importance of taking account of spatial and temporal dimensions of environmental change in order to understand plant function is emphasised. The book uses a mixture of ecological, environmental and agricultural examples throughout in order to provide a holistic view of the topic suitable for a contemporary student

audience. Each chapter uses a novel stress response hierarchy to integrate plant responses across spatial and temporal scales in an easily digestible framework.

Nanotechnology Characterization Tools for Tissue Engineering and Medical Therapy

Cryptography, in particular public-key cryptography, has emerged in the last 20 years as an important discipline that is not only the subject of an enormous amount of research, but provides the foundation for information security in many applications. Standards are emerging to meet the demands for cryptographic protection in most areas of data communications. Public-key cryptographic techniques are now in widespread use, especially in the financial services industry, in the public sector, and by individuals for their personal privacy, such as in electronic mail. This Handbook will serve as a valuable reference for the novice as well as for the expert who needs a wider scope of coverage within the area of cryptography. It is a necessary and timely guide for professionals who practice the art of cryptography. The Handbook of Applied Cryptography provides a treatment that is multifunctional: It serves as an introduction to the more practical aspects of both conventional and public-key cryptography. It is a valuable source of the latest techniques and algorithms for the serious practitioner. It provides an integrated treatment of the field, while still presenting each major topic as a self-contained

unit It provides a mathematical treatment to accompany practical discussions It contains enough abstraction to be a valuable reference for theoreticians while containing enough detail to actually allow implementation of the algorithms discussed Now in its third printing, this is the definitive cryptography reference that the novice as well as experienced developers, designers, researchers, engineers, computer scientists, and mathematicians alike will use.

Convergence Technologies for 3G Networks

What do we know about Mediterranean Cold (Deep)-Water coral ecosystems? In this book, specialists offer answers and insights with a series of chapters and short papers about the paleoecology, biology, physiology and ecology of the corals and other organisms that comprise these ecosystems. Structured on a temporal axis—Past, Present and Future—the reviews and selected study cases cover the cold and deep coral habitats known to date in the Mediterranean Basin. This book illustrates and explains the deep Mediterranean coral habitats that might have originated similar thriving ecosystems in today's Atlantic Ocean.

The Indigo Book

This book provides an in-depth guide to femtocell technologies In this book, the

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authors provide a comprehensive and organized explanation of the femtocell concepts, architecture, air interface technologies, and challenging issues arising from the deployment of femtocells, such as interference, mobility management and self-organization. The book details a system level simulation based methodology addressing the key concerns of femtocell deployment such as interference between femto and macrocells, and the performance of both femto and macrocell layers. In addition, key research topics in interference modeling and mitigation, mobility management and Self-Organizing Network (SON) are highlighted. The authors also introduce HNB/HeNB standardization in 3GPP.. Furthermore, access methods (closed, open and hybrid), applications, timing synchronization, health issues, business models and security are discussed. The authors also provide a comparison between femtocells and other indoor coverage techniques such as picocells, repeaters, distributed antenna systems and radio over fiber. Lastly, both CDMA and OFDMA based femtocells are covered. Key Features: Provides a comprehensive reference on femtocells and related topics Offers the latest research results on femtocells based on simulation and measurements Gives an overview of indoor coverage techniques such as picocells, repeaters, distributed antenna systems, radio over fiber and femtocells Includes chapters on femtocell access network architecture, air interface technologies (GSM, UMTS, HSPA, WiMAX and LTE), femtocell simulation, interference analysis and mitigation in femto/macrocell networks, mobility management in femto/macrocell networks, femtocell self-organization and other key challenges

such as timing synchronization and security faced by femtocell deployment Points to over 240 references from 3GPP, The Femto Forum, journals and conference proceedings This book will be an invaluable guide for RF engineers from operators, R&D engineers from femtocells hardware manufacturers, employees from regulatory bodies, radio network planners, academics and researchers from universities and research organizations. Students undertaking wireless communications courses will also find this book insightful.

Molecular Aspects of Plant-Pathogen Interaction

"A major contribution . . . on the behavior of common stocks in the United States." --Financial Analysts' Journal The consistently bestselling What Works on Wall Street explores the investment strategies that have provided the best returns over the past 50 years--and which are the top performers today. The third edition of this BusinessWeek and New York Times bestseller contains more than 50 percent new material and is designed to help you reshape your investment strategies for both the postbubble market and the dramatically changed political landscape. Packed with all-new charts, data, tables, and analyses, this updated classic allows you to directly compare popular stockpicking strategies and their results--creating a more comprehensive understanding of the intricate and often confusing investment process. Providing fresh insights into time-tested strategies, it examines: Value versus growth strategies P/E ratios versus price-to-sales Small-cap investing,

seasonality, and more

Advances in Computer Science for Engineering and Education II

Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

Proceedings of the First International Conference on Advanced Data and Information Engineering (DaEng-2013)

Innovation in information and communication technology (ICT) fuels the growth of the global economy. How ICT markets evolve depends on politics and policy, and

since the 1950s periodic overhauls of ICT policy have transformed competition and innovation. For example, in the 1980s and the 1990s a revolution in communication policy (the introduction of sweeping competition) also transformed the information market. Today, the diffusion of Internet, wireless, and broadband technology, growing modularity in the design of technologies, distributed computing infrastructures, and rapidly changing business models signal another shift. This pathbreaking examination of ICT from a political economy perspective argues that continued rapid innovation and economic growth require new approaches in global governance that will reconcile diverse interests and enable competition to flourish. The authors (two of whom were architects of international ICT policy reforms in the 1990s) discuss this crucial turning point in both theoretical and practical terms.

Handbook of Applied Cryptography

This open access book not only describes the challenges of climate disruption, but also presents solutions. The challenges described include air pollution, climate change, extreme weather, and related health impacts that range from heat stress, vector-borne diseases, food and water insecurity and chronic diseases to malnutrition and mental well-being. The influence of humans on climate change has been established through extensive published evidence and reports. However, the connections between climate change, the health of the planet and the impact

on human health have not received the same level of attention. Therefore, the global focus on the public health impacts of climate change is a relatively recent area of interest. This focus is timely since scientists have concluded that changes in climate have led to new weather extremes such as floods, storms, heat waves, droughts and fires, in turn leading to more than 600,000 deaths and the displacement of nearly 4 billion people in the last 20 years. Previous work on the health impacts of climate change was limited mostly to epidemiologic approaches and outcomes and focused less on multidisciplinary, multi-faceted collaborations between physical scientists, public health researchers and policy makers. Further, there was little attention paid to faith-based and ethical approaches to the problem. The solutions and actions we explore in this book engage diverse sectors of civil society, faith leadership, and political leadership, all oriented by ethics, advocacy, and policy with a special focus on poor and vulnerable populations. The book highlights areas we think will resonate broadly with the public, faith leaders, researchers and students across disciplines including the humanities, and policy makers.

Molecular Basis of Oxidative Stress

The traditional rhyme is expanded to describe some of Humpty Dumpty's other mishaps.

Instructions on Wiring (Wire Obstacles)

This open access book explores the dataspace paradigm as a best-effort approach to data management within data ecosystems. It establishes the theoretical foundations and principles of real-time linked dataspaces as a data platform for intelligent systems. The book introduces a set of specialized best-effort techniques and models to enable loose administrative proximity and semantic integration for managing and processing events and streams. The book is divided into five major parts: Part I “Fundamentals and Concepts” details the motivation behind and core concepts of real-time linked dataspaces, and establishes the need to evolve data management techniques in order to meet the challenges of enabling data ecosystems for intelligent systems within smart environments. Further, it explains the fundamental concepts of dataspaces and the need for specialization in the processing of dynamic real-time data. Part II “Data Support Services” explores the design and evaluation of critical services, including catalog, entity management, query and search, data service discovery, and human-in-the-loop. In turn, Part III “Stream and Event Processing Services” addresses the design and evaluation of the specialized techniques created for real-time support services including complex event processing, event service composition, stream dissemination, stream matching, and approximate semantic matching. Part IV “Intelligent Systems and Applications” explores the use of real-time linked dataspaces within real-world smart environments. In closing, Part V “Future Directions” outlines

future research challenges for dataspace, data ecosystems, and intelligent systems. Readers will gain a detailed understanding of how the dataspace paradigm is now being used to enable data ecosystems for intelligent systems within smart environments. The book covers the fundamental theory, the creation of new techniques needed for support services, and lessons learned from real-world intelligent systems and applications focused on sustainability. Accordingly, it will benefit not only researchers and graduate students in the fields of data management, big data, and IoT, but also professionals who need to create advanced data management platforms for intelligent systems, smart environments, and data ecosystems.

Femtocells

Ninth volume of a 40 volume series on nanoscience and nanotechnology, edited by the renowned scientist Challa S.S.R. Kumar. This handbook gives a comprehensive overview about Nanotechnology Characterization Tools for Tissue Engineering and Medical Therapy. Modern applications and state-of-the-art techniques are covered and make this volume an essential reading for research scientists in academia and industry.

Plant Ecophysiology and Adaptation under Climate Change:

Mechanisms and Perspectives I

Founded in 2004, the Games for Health Project supports community, knowledge and business development efforts to use cutting-edge games and game technologies to improve health and health care. The Games for Health Conference brings together researchers, medical professionals and game developers to share information about the impact of games, playful interaction and game technologies on health, health care and policy. Over two days, more than 400 attendees participate in over 60 sessions provided by an international array of 80+ speakers, cutting across a wide range of activities in health and health care. Topics include exergaming, physical therapy, disease management, health behavior change, biofeedback, rehab, epidemiology, training, cognitive health, nutrition and health education.

Popular Mechanics

From the author of the vSphere Clustering Deep Dive series - The VMware vSphere 6.5 Host Resources Deep Dive is a guide to building consistent high-performing ESXi hosts. A book that people can't put down. Written for administrators, architects, consultants, aspiring VCDX-es and people eager to learn more about the elements that control the behavior of CPU, memory, storage and network

resources. This book shows that we can fundamentally and materially improve the systems we're building. We can make the currently running ones consistently faster by deeply understanding and optimizing our systems. The reality is that specifics of the infrastructure matter. Details matter. Especially for distributed platforms which abstract resource layers, such as NSX and vSAN. Knowing your systems inside and out is the only way to be sure you've properly handled those details. It's about having a passion for these details. It's about loving the systems we build. It's about understanding them end-to-end. This book explains the concepts and mechanisms behind the physical resource components and the VMkernel resource schedulers, which enables you to: Optimize your workload for current and future Non-Uniform Memory Access (NUMA) systems. Discover how vSphere Balanced Power Management takes advantage of the CPU Turbo Boost functionality, and why High Performance does not. How the 3-DIMMs per Channel configuration results in a 10-20% performance drop. How TLB works and why it is bad to disable large pages in virtualized environments. Why 3D XPoint is perfect for the vSAN caching tier. What queues are and where they live inside the end-to-end storage data paths. Tune VMkernel components to optimize performance for VXLAN network traffic and NFV environments. Why Intel's Data Plane Development Kit significantly boosts packet processing performance.

A Community of Interests

This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology, Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

Mediterranean Cold-Water Corals: Past, Present and Future

"Fluid Machinery and Fluid Mechanics: 4th International Symposium (4th ISFMFE)" is the proceedings of 4th International Symposium on Fluid Machinery and Fluid Engineering, held in Beijing November 24-27, 2008. It contains 69 highly informative technical papers presented at the Mei Lecture session and the technical sessions of the symposium. The Chinese Society of Engineering Thermophysics (CSET) organized the First, the Second and the Third International Symposium on Fluid Machinery and Fluid Engineering (1996, 2000 and 2004). The purpose of the 4th Symposium is to provide a common forum for exchange of scientific and technical information worldwide on fluid machinery and fluid engineering for scientists and engineers. The main subject of this symposium is "Fluid Machinery for Energy Conservation". The "Mei Lecture" reports on the most

recent developments of fluid machinery in commemoration of the late professor Mei Zuyan. The book is intended for researchers and engineers in fluid machinery and fluid engineering. Jianzhong Xu is a professor at the Chinese Society of Engineering Thermophysics, Chinese Academy of Sciences, Beijing.

Business Innovation and Development in Emerging Economies

"A bibliography of print and online materials available in Albanian, Amharic, Arabic, Bengali, Bosnian, Bulgarian, Chinese, Croatian, Czech, Dutch, English, Estonian, Filipino, Finnish, French, German, Greek, Hindi, Hungarian, Icelandic, Indonesian, Italian, Japanese, Korean, Laotian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Shona, Slovak, Spanish, Swedish, Thai, Turkish, Turkmen, Uzbek, and Vietnamese concerning information literacy."--Résumé de la notice dérivée.

Health of People, Health of Planet and Our Responsibility

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Irrigation and Drainage Engineering

This volume comprises three keynote lectures by internationally well-known experts in the field of underground construction, the inaugural Fujita lecture to honor professor Keiichi Fujita, and the regular papers presented at the 8th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground (IS-Seoul 2014). Topics co

It Infrastructure & Its Management

This book is an accessible resource offering practical information not found in more database-oriented resources. The first chapter lists acronyms with definitions, and a glossary of terms and subjects used in biochemistry, molecular biology, biotechnology, proteomics, genomics, and systems biology. There follows chapters on chemicals employed in biochemistry and molecular biology, complete with properties and structure drawings. Researchers will find this book to be a valuable tool that will save them time, as well as provide essential links to the roots of their science. Key selling features: Contains an extensive list of commonly used acronyms with definitions Offers a highly readable glossary for systems and techniques Provides comprehensive information for the validation of biotechnology assays and manufacturing processes Includes a list of Log P values, water

solubility, and molecular weight for selected chemicals Gives a detailed listing of protease inhibitors and cocktails, as well as a list of buffers

Environmental Plant Physiology

Business Innovation driven by the advancement of technology has dramatically changed the business landscape over recent years, not only in advanced countries but also in emerging markets. It is expected that business innovation could help achieve economic inclusion, which has been a global initiative over the last decade, creating opportunities for all people to benefit from the economic development. These proceedings provide an outlet for discussing the importance of business innovation, especially in emerging countries in helping to reach inclusive economies. The papers cover the subject areas management, accounting, finance, economics and social sciences.

Bioterrorism and Biocrimes

Asian transportation systems and services, as well as their usage, are fraught with challenges. This handbook therefore seeks to examine the possible solutions to the problems faced by the region. It illustrates the history of transportation development in Asia and provides a comprehensive overview of research on urban

and intercity transport. Presenting an extensive literature review and detailed summaries of the major findings and methodologies, this book also offers suggestions for future research activities from top-level international researchers. Written from an interdisciplinary perspective, the topics covered include: Transportation systems across Asia; Traffic accidents; Air pollution; Land use and logistics; Transport governance. Considering the population and economic development scale, as well as the diverse cultures of Asia, the Routledge Handbook of Transport in Asia will be a valuable resource for students and scholars of transportation, Asian development and Asian Studies in general.

Overview of Information Literacy Resources Worldwide

Plant endophytes are a potential source for the production of bioactive compounds that can fight against devastating diseases in both plants and humans. Among these endophytic microorganisms, endophytic fungi are one of the dominant group of microorganisms with a potential role in plant growth promotion and the discovery of noble bioactive natural products. Endophytic fungi possess several bioactivities like anticancer, antimicrobial, insecticidal, plant growth stimulants, crop protection, phytoremediation, etc. Presence of modular biosynthetic genes clusters like PKS and NRPS in several endophytic fungi underscores the need to understand and explore such organisms. This volume presents and demonstrates the applied aspects of endophytic fungi. Practical applications of such endophytes

are discussed in detail, including studies in pharmaceutical development and agricultural management of important microbial diseases. The beneficial effects that endophytic fungi provide to host plants—enhancing growth, increasing fitness, strengthening tolerance to abiotic and biotic stresses through secondary metabolites—are also discussed. The reader is provided with a comprehensive and detailed understanding of such relationships between endophytic fungi and their host.

Geotechnical Aspects of Underground Construction in Soft Ground

During the past five years, the threat of bioterrorism has become a subject of widespread concern. Journalists, academics, and policy analysts have considered the subject, and in most cases found much to alarm them. Most significantly, it has captured the attention of policy makers at all levels of government in the United States. Unfortunately, bioterrorism remains a poorly understood subject. Many policymakers and policy analysts present apocalyptic visions of the threat, contending that it is only a matter of time before some terrorist uses biological agents to cause mass casualties. In contrast, other analysts argue that the empirical record provides no basis for concern, and thus largely dismiss the potential threat. Neither approach is helpful. Imagining catastrophic threats

inevitably leads to a requirement for impossibly large response capabilities. In contrast, denying the potential danger altogether leads to the kind of tunnel vision that led U.S. intelligence officials to totally ignore the emergence of Aum Shinrikyo in Japan, despite its overtly hostile attitude towards the United States. This study takes an intermediate course. It provides empirical evidence to support the views of those who argue that biological agents are difficult to use. It also provides abundant evidence that some people have desired to inflict mass casualties on innocent populations through employment of biological agents. Fortunately, these accounts also suggest that such people lacked the capability to follow through with their plans. The research also casts considerable doubt on our ability to predict which biological agents a perpetrator might employ. While some analysts assume that terrorists will use those agents that proved of most interest to state weapons programs, bioterrorists and biocriminals have acquired and used agents of little or no value as weapons of war.

The Spectrum Handbook 2018

The merging of voice and data on a single network opens powerful new possibilities in communications. Only a fundamental understanding of both technologies will ensure you are equipped to maximise their full potential. Convergence Technologies for 3G Networks describes the evolution from cellular to a converged network that integrates traditional telecommunications and the

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technology of the Internet. In particular, the authors address the application of both IP and ATM technologies to a cellular environment, including IP telephony protocols, the use of ATM/AAL2 and the new AAL2 signalling protocol for voice/multimedia and data transport as well as the future of the UMTS network in UMTS Release 5/6 All-IP architecture. **Convergence Technologies for 3G Networks: Explains the operation and integration of GSM, GPRS, EDGE, UMTS, CDMA2000, IP, and ATM. Provides practical examples of 3G connection scenarios. Describes signalling flows and protocol stacks. Covers IP and ATM as used in a 3G context. Addresses issues of QoS and real-time application support. Includes IP/SS7 internetworking and IP softswitching. Outlines the architecture of the IP Multimedia Subsystem (IMS) for UMTS. Convergence Technologies for 3G Networks is suited for professionals from the telecommunications, data communications and computer networking industries..**

VMware VSphere 6.5 Host Resources Deep Dive

The book offers an integrated overview of plant-pathogen interactions. It discusses all the steps in the pathway, from the microbe-host-cell interface and the plant's recognition of the microbe to the plant's defense response and biochemical alterations to achieve tolerance / resistance. It also sheds light on the classes of pathogens (bacteria, fungus and viruses); effector molecules, such as PAMPs; receptor molecules like PRRs and NBS-LRR proteins; signaling components like

MAPKs; regulatory molecules, such as phytohormones and miRNA; transcription factors, such as WRKY; defense-related proteins such as PR-proteins; and defensive metabolites like secondary metabolites. In addition, it examines the role of post-genomics, high-throughput technology (transcriptomics and proteomics) in studying pathogen outbreaks causing crop losses in a number of plants. Providing a comprehensive picture of plant-pathogen interaction, the updated information included in this book is valuable for all those involved in crop improvement.

Epigenetics in Plants of Agronomic Importance: Fundamentals and Applications

This book gathers high-quality, peer-reviewed research papers presented at the Second International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2019), held in Kiev, Ukraine on 26–27 January 2019, and jointly organized by the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” and the International Research Association of Modern Education and Computer Science. The papers discuss state-of-the-art topics and advances in computer science; neural networks; pattern recognition; engineering techniques; genetic coding systems; deep learning and its medical applications; and knowledge representation and its applications in education. Given its scope, the book offers an excellent resource for researchers, engineers, management

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practitioners, and graduate and undergraduate students interested in computer science and its applications in engineering and education.

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