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Encyclopedia of Cloud Computing - San Murugesan 2016-05-09

The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, management, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter presents its summary at the beginning and backend material, references and additional resources for further information.

Fundamentals of Rice Crop Science - Shouichi Yoshida 1981

Growth and development of the rice plant. Climatic environments and its influence. Mineral nutrition of rice. Nutritional disorders. Photosynthesis and respiration. Rice plant

characters in relation to yielding ability.

Physiological analysis of rice yield.

Molecular Plant Breeding - Yunbi Xu 2010

Recent advances in plant genomics and molecular biology have revolutionized our understanding of plant genetics, providing new opportunities for more efficient and controllable plant breeding. Successful techniques require a solid understanding of the underlying molecular biology as well as experience in applied plant breeding. Bridging the gap between developments in biotechnology and its applications in plant improvement, Molecular Plant Breeding provides an integrative overview of issues from basic theories to their applications to crop improvement including molecular marker technology, gene mapping, genetic transformation, quantitative genetics, and breeding methodology.

African Indigenous Knowledge and the Sciences - Gloria Emeagwali 2016-07-08

This book is an intellectual journey into epistemology, pedagogy, physics, architecture, medicine and metallurgy. The focus is on various dimensions of African Indigenous Knowledge (AIK) with an emphasis on the sciences, an area that has been neglected in AIK discourse. The authors provide diverse views and perspectives on African indigenous scientific and technological knowledge that can benefit a wide spectrum of academics, scholars, students,

development agents, and policy makers, in both governmental and non-governmental organizations, and enable critical and alternative analyses and possibilities for understanding science and technology in an African historical and contemporary context.

High-fidelity Multichannel Audio Coding -

Dai Tracy Yang 2005

This invaluable monograph addresses the specific needs of audio-engineering students and researchers who are either learning about the topic or using it as a reference book on multichannel audio compression. This book covers a wide range of knowledge on perceptual audio coding, from basic digital signal processing and data compression techniques to advanced audio coding standards and innovate coding tools. It is the only book available on the market that solely focuses on the principles of high-quality audio codec design for multichannel sound sources. This book includes three parts. The first part covers the basic topics on audio compression, such as quantization, entropy coding, psychoacoustic model, and sound quality assessment. The second part of the book highlights the current most prevalent low-bit-rate high-performance audio coding standards-MPEG-4 audio. More space is given to the audio standards that are capable of supporting multichannel signals, that is, MPEG advance audio coding (AAC), including the original MPEG-2 AAC technology, additional MPEG-4 toolsets, and the most recent aacPlus standard. The third part of this book introduces several innovate multichannel audio coding tools, which have been demonstrated to further improve the coding performance and expand the available functionalities of MPEG AAC, and is more suitable for graduate students and researchers in the advanced level. Dai Tracy Yang is currently Postdoctoral Research Fellow, Chris Kyriakakis is Associated Professor, and C.-C. Jay Kuo is Professor, all affiliated with the Integrated Media Systems Center (IMSC) at the University of Southern California.

Sleep and Sleep Disorders: - Malcolm Lader 2010-02-12

Many recent discoveries in both laboratory and clinical settings have greatly increased our understanding of sleep medicine and the relevant psychopharmacology. This timely book

serves to present updated information about the neuropsychopharmacology of sleep as this field enters mainstream psychiatry, neurology and medicine This volume has assembled articles that summarize and review carefully, a chosen selection of the latest discoveries concerning sleep medicine, sleep physiology and sleep pharmacology. Outstanding contributions have been sought from acknowledged experts in their respective fields. The goal of the volume is to present the more recent developments and advances in the fields of sleep and neuropsychopharmacology, as well as to provide a context for considering them both in depth and from multidisciplinary perspectives. This volume brings together the collective expertise of clinicians and basic researchers who represent a range of interests in neuroscience, neuropharmacology, sleep physiology, and biological rhythms. Presenting a thoughtful balance of basic experimental and clinical facts and viewpoints, this book will serve as a foundation for understanding, and ultimately treating, sleep disorders.

Advances in Regenerative Medicine: Role of Nanotechnology, and Engineering Principles - Venkatram Prasad Shastri 2010-07-23

This book summarizes the NATO Advanced Research Workshop (ARW) on "Nanoengineered Systems for Regenerative Medicine" that was organized under the auspices of the NATO Security through Science Program. I would like to thank NATO for supporting this workshop via a grant to the co-directors. The objective of ARW was to explore the various facets of regenerative medicine and to highlight role of the "the nano-length scale" and "nano-scale systems" in defining and controlling cell and tissue environments. The development of novel tissue regenerative strategies require the integration of new insights emerging from studies of cell-matrix interactions, cellular signalling processes, developmental and systems biology, into biomaterials design, via a systems approach. The chapters in the book, written by the leading experts in their respective disciplines, cover a wide spectrum of topics ranging from stem cell biology, developmental biology, cell-matrix interactions, and matrix biology to surface science, materials processing and drug delivery. We hope the contents of the book will provoke

the readership into developing regenerative medicine paradigms that combine these facets into clinically translatable solutions. This NATO meeting would not have been successful without the timely help of Dr. Ulrike Shastri, Sanjeet Rangarajan and Ms. Sabine Benner, who assisted in the organization and implementation of various elements of this meeting. Thanks are also due Dr. Fausto Pedrazzini and Ms. Alison Trapp at NATO HQ (Brussels, Belgium). The commitment and persistence of Ms.

Ion-Selective Electrodes in Analytical Chemistry - Henry Freiser 2012-12-06

We continue in this second volume the plan evident in the first; i.e., of presenting a number of well-rounded up-to-date reviews of important developments in the exciting field of ion-selective electrodes in analytical chemistry. In this volume, in addition to the exciting applications of ISE'S to biochemistry systems represented by the description of enzyme electrodes, there is featured the most recent development in ISE'S, namely, the joining of the electrochemical and solid state expertise, resulting in CHEMFETS. The scholarly survey of the current status of ISE'S will undoubtedly be welcomed by all workers in the field. Tucson, Arizona Henry Freiser vii Contents Chapter 1 Potentiometric Enzyme Methods Robert K. Kobos 1. Introduction 1 2. Soluble Enzyme Systems . . . 5 2.1. Substrate Determinations 5 2.2. Enzyme Determinations . 13 2.3. Inhibitor Determinations. 18 3. Immobilized Enzyme Systems . 19 3.1. Methods of Immobilization. 19 3.2. Characteristics of Immobilized Enzymes 23 3.3. Analytical Applications with Ion-Selective Electrodes 23 4. Enzyme Electrodes 31 4.1. Urea Electrodes 35 4.2. Amygdalin Electrodes 39 4.3. Glucose Electrodes . 40 4.4. Penicillin Electrodes 40 4.5. Amino Acid Electrodes 41 4.6. Nucleotide Electrodes 46 4.7. Uric Acid Electrode 47 4.8. Creatinine Electrode 48 4.9. Acetylcholine Electrodes. 4.10. D-Gluconate Electrode 49 4.11. Lactate Electrode 49 4.12. Inhibitor Determination 50 4.13. Substrate Electrodes 50 4.14. Current Trends

In Vitro Neuronal Networks - Michela Chiappalone 2019-05-09

This book provides a comprehensive overview of the incredible advances achieved in the study of

in vitro neuronal networks for use in basic and applied research. These cultures of dissociated neurons offer a perfect trade-off between complex experimental models and theoretical modeling approaches giving new opportunities for experimental design but also providing new challenges in data management and interpretation. Topics include culturing methodologies, neuroengineering techniques, stem cell derived neuronal networks, techniques for measuring network activity, and recent improvements in large-scale data analysis. The book ends with a series of case studies examining potential applications of these technologies.

Book of Abstracts of the 64th Annual Meeting of the European Association for Animal Production - EAAP Scientific Committee 2013-08

This Book of Abstracts is the main publication of the 64th Annual Meeting of the European Federation for Animal Science 2013 in Nantes, France. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Important problems were also discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems.

Jenner's Smallpox Vaccine - Derrick Baxby 1981

Mathematical Modeling of Biofilms - IWA Task Group on Biofilm Modeling 2006-04-30
Over 90% of bacterial biomass exists in the form of biofilms. The ability of bacteria to attach to surfaces and to form biofilms often is an important competitive advantage for them over bacteria growing in suspension. Some biofilms are "good" in natural and engineered systems; they are responsible for nutrient cycling in nature and are used to purify waters in engineering processes. Other biofilms are "bad" when they cause fouling and infections of humans and plants. Whether we want to promote good biofilms or eliminate bad biofilms, we need to understand how they work and what works to control them. Mathematical Modeling

of Biofilms provides guidelines for the selection and use of mathematical models of biofilms. The whole range of existing models - from simple analytical expressions to complex numerical models - is covered. The application of the models for the solution of typical problems is demonstrated, and the performance of the models is tested in comparative studies. With the dramatic evolution of the computational capacity still going on, modeling tools for research and practice will become more and more significant in the next few years. This report provides the foundation to understand the models and to select the most appropriate one for a given use. *Mathematical Modeling of Biofilms* gives a state-of-the-art overview that is especially valuable for educating students, new biofilm researchers, and design engineers. Through a series of three benchmark problems, the report demonstrates how to use the different models and indicates when simple or highly complex models are most appropriate. This is the first report to give a quantitative comparison of existing biofilm models. The report supports model-based design of biofilm reactors. The report can be used as basis for teaching biofilm-system modeling. The report provides the foundation for researchers seeking to use biofilm modeling or to develop new biofilm models. Scientific and Technical Report No.18

The Oxford Handbook of Parenting and Moral Development - Deborah J. Laible 2019-09-30
The Oxford Handbook of Parenting and Moral Development provides a collection of state-of-the-art theories and research on the role that parents play in moral development. Contributors who are leaders in their fields take a comprehensive, yet nuanced approach to considering the complex links between parenting and moral development. The volume begins by providing an overview of traditional and contemporary perspectives on parenting and moral development, including perspectives related to parenting styles, domain theory, attachment theory, and evolutionary theory. In addition, there are several chapters that explore the genetic and biological influences related to parenting and moral development. The second section of the volume explores cultural and religious approaches to parenting and moral development and contributes examples of

contemporary research with diverse populations such as Muslim cultures and US Latino/as. The last major section of the volume examines recent developments and approaches to parenting, including chapters on topics such as helicopter parenting, proactive parenting, parent-child conversations and disclosure, parental discipline, and other parenting practices designed to inhibit children's antisocial and aggressive behaviors. The volume draws together the most important work in the field; it is essential reading for anyone interested in parenting and moral development.

History of the Natural and Organic Foods Movement (1942-2020) - William Shurtleff; Akiko Aoyagi; 2020-04-09

The world's most comprehensive, well documented and well illustrated book on this subject. With extensive subject and geographical index. 66 photographs and illustrations - mostly color. Free of charge in digital PDF format on Google Books.

Diagnosis and Management of Addiction and Other Mental Disorders (Dual Disorders) - Ana Adan 2021-08-17

This book includes a compilation of papers published in 2020 and 2021 focused on dual disorders, which are found in significant and growing numbers in both substance addiction and mental health clinics. These contributions assume a broad perspective ranging from exposure to genetic and neurobiological elements to factors such as personality and quality of life. In all cases, these papers aimed to be transferred to and to benefit clinical practice.

Optical and Laser Remote Sensing - D.K. Killinger 2013-06-29

The field of optical and laser remote sensing has grown rapidly in recent years. This dynamic growth has been stimulated not only by technological advances in lasers, detectors, and optical system design, but also by the potential application of remote sensing systems to a wide variety of atmospheric measurements. Optical and laser remote sensing can allow single ended measurement capability not offered by conventional point-detection techniques. While many past measurements have been associated with laboratory research, practical systems have recently been developed which are capable of remotely detecting, measuring, and tracking a

wide range of molecular and atomic species in the atmosphere with concentrations of parts per billion and at ranges over 100 km. This book is a compilation of papers which represent an overview of the present state of development of optical and laser remote sensing technology. The subjects covered include both passive and active remote sensing techniques in the UV, visible, and IR spectral regions. related laser and detector technology, and atmospheric propagation and system analysis considerations. While the papers do not constitute an exhaustive treatment of the excellent research being conducted in this field, they are representative of the wide diversity of present efforts. It is hoped that the reader will gain a general understanding of the current research in optical and laser remote sensing as well as an overview of current systems development.

Sex and Gender Factors Affecting Metabolic Homeostasis, Diabetes and Obesity - Franck Mauvais-Jarvis 2017-12-08

The book provides a reference for years to come, written by world-renowned expert investigators studying sex differences, the role of sex hormones, the systems biology of sex, and the genetic contribution of sex chromosomes to metabolic homeostasis and diseases. In this volume, leaders of the pharmaceutical industry present their views on sex-specific drug discovery. Many of the authors presented at the Keystone Symposium on "Sex and gender factors affecting metabolic homeostasis, diabetes and obesity" to be held in March 2017 in Lake Tahoe, CA. This book will generate new knowledge and ideas on the importance of gender biology and medicine from a molecular standpoint to the population level and to provide the methods to study them. It is intended to be a catalyst leading to gender-specific treatments of metabolic diseases. There are fundamental aspects of metabolic homeostasis that are regulated differently in males and females, and influence both the development of diabetes and obesity and the response to pharmacological intervention. Still, most preclinical researchers avoid studying female rodents due to the added complexity of research plans. The consequence is a generation of data that risks being relevant to only half of the population. This is a timely moment to publish a book on sex differences in

diseases as NIH leadership has asked scientists to consider sex as a biological variable in preclinical research, to ensure that women get the same benefit of medical research as men.

Runoff Prediction in Ungauged Basins - Günter Blöschl 2013-04-18

Predicting water runoff in ungauged water catchment areas is vital to practical applications such as the design of drainage infrastructure and flooding defences, runoff forecasting, and for catchment management tasks such as water allocation and climate impact analysis. This full colour book offers an impressive synthesis of decades of international research, forming a holistic approach to catchment hydrology and providing a one-stop resource for hydrologists in both developed and developing countries. Topics include data for runoff regionalisation, the prediction of runoff hydrographs, flow duration curves, flow paths and residence times, annual and seasonal runoff, and floods. Illustrated with many case studies and including a final chapter on recommendations for researchers and practitioners, this book is written by expert authors involved in the prestigious IAHS PUB initiative. It is a key resource for academic researchers and professionals in the fields of hydrology, hydrogeology, ecology, geography, soil science, and environmental and civil engineering.

Calibration of Watershed Models - Qingyun Duan 2003-01-10

Published by the American Geophysical Union as part of the Water Science and Application Series, Volume 6. During the past four decades, computer-based mathematical models of watershed hydrology have been widely used for a variety of applications including hydrologic forecasting, hydrologic design, and water resources management. These models are based on general mathematical descriptions of the watershed processes that transform natural forcing (e.g., rainfall over the landscape) into response (e.g., runoff in the rivers). The user of a watershed hydrology model must specify the model parameters before the model is able to properly simulate the watershed behavior.

Advances in Atmospheric Remote Sensing with Lidar - Albert Ansmann 2012-12-06

Lidar or laser radar, the depth-resolved remote measurement of atmospheric parameters with

optical means, has become an important tool in the field of atmospheric and environmental remote sensing. In this volume the latest progress in the development of Lidar methods, experiments, and applications is described. The content is based on selected and thoroughly refereed papers presented at the 18th International Laser Radar Conference, Berlin, 22 - 26 July 1996. The book is divided into six parts which cover the topics of tropospheric aerosols and clouds, Lidar in space, wind, water vapor, tropospheric trace gases and plumes, and stratospheric and mesospheric profiling. As a supplement to fundamental LIDAR textbooks this volume may serve as a guide through the blossoming field of modern Lidar techniques.

History of the Health Foods Movement Worldwide (1875-2021) - William Shurtleff; Akiko Aoyagi 2021-07-31

The world's most comprehensive, well documented, and well illustrated book on this subject. With extensive subject and geographic index. 205 photographs and illustrations - many color. Free of charge in digital PDF format.

Remote Sensing of the Atmosphere and Clouds - Si-Chee Tsay 2006

Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Jak-Stat Signaling : From Basics to Disease - Thomas Decker 2012-06-06

JAK tyrosine kinases and STAT transcription factors constitute a signaling pathway, which is activated by cytokines. By activating gene transcription it regulates essential biological responses to environmental cues. The Jak-Stat pathway is involved in the regulation of cell development, differentiation, proliferation and apoptosis. Improper function may contribute to hematopoietic malignancies and cancer. This book provides comprehensive insights into the latest basic and clinical developments in the field. The first part reviews recent findings and new technologies pertaining to basics of Jak-Stat function. The second part describes the evolution of Jak-Stat signaling and the role of the

pathway in invertebrate organisms. The third part focuses on Jak-Stat signaling in hematopoietic cells under both physiological and pathophysiological conditions. Finally, chapters in the fourth section describe the relationship of Jak-Stat signaling to various states of disease, particularly infection, leukemias and solid cancers. The book is intended for all scientists in molecular biology, biochemistry and cell biology dealing with biomedical issues.

Cold-adapted Yeasts - Pietro Buzzini 2013-10-07

Yeasts are a versatile group of eukaryotic microorganisms, exhibiting heterogeneous nutritional profiles and an extraordinary ability to survive in a wide range of natural and man-associated ecosystems, including cold habitats. Cold-adapted yeasts inhabit numerous low-temperature environments where they are subjected to seasonal or permanent cold conditions. Hence, they have evolved a number of adaptation strategies with regard to growth and reproduction, metabolic activities, survival and protection. Due to their distinctive ability to thrive successfully at low and even subzero temperatures, cold-adapted yeasts are increasingly attracting attention in basic science and industry for their enormous biotechnological potential. This book presents our current understanding of the diversity and ecology of cold-adapted yeasts in worldwide cold ecosystems, their adaptation strategies, and their biotechnological significance. Special emphasis is placed on the exploitation of cold-adapted yeasts as a source of cold-active enzymes and biopolymers, as well as their benefits for food microbiology, bioremediation and biocontrol. Further, aspects of food biodeterioration are considered.

In-situ Structure Characterization of Elastomers during Deformation and Fracture - Karsten Brüning 2014-06-21

This thesis offers novel insights into the time-dependent structural evolution of polymers under deformation. In-situ tensile experiments at high-brilliance synchrotron sources allowed to characterize the material with unrivaled resolution in time and space. The strain-induced crystallization in natural rubber was studied by wide-angle X-ray diffraction. Special emphasis was put on the establishment of new structure-property relationships to give a more in-depth

understanding of the mechanical performance of rubber parts, e.g. in tear fatigue loading. To this end, the kinetics of strain-induced crystallization were investigated, subjecting the material to high strain rates. The local structure around a crack tip was observed by scanning wide-angle X-ray diffraction. Ultra-small angle X-ray scattering served to study filled elastomers under deformation, from specially prepared model filler systems to industrially relevant carbon black filled rubbers. Other methods include electron microscopy coupled with in-situ tensile testing and optical dilatometry to examine cavitation in rubbers. The underlying theory as well as a literature review are covered by an extensive introductory chapter, followed by a description of the experimental techniques. The results are presented in more detail than in the original journal publications.

Prominin-1 (CD133): New Insights on Stem & Cancer Stem Cell Biology - Denis Corbeil
2012-11-19

Prominin-1 or otherwise known as CD133 is a glycoprotein that is present in humans and mice. Since the first description of prominin in 1997, in mouse neuroepithelial cells and in human hematopoietic stem cells as AC133 antigen, this molecule has aroused a large interest especially, as a stem cell marker, that gave rise to an ever growing body of publications and more recently its expression in cancer stem cells.

Controversies as to its role as a cancer stem and its detection in different models, as well as its use as a prognostic marker have emerged. Yet, beyond its use as a stem cell and cancer stem cell marker, prominin-1/CD133 displays unique biological features and appears of importance in other processes like for example in retinal biogenesis. Indeed, this five-transmembrane plasma membrane glycoprotein, which marks membrane protrusions is associated with several essential processes like cell polarity, asymmetric cell division and membrane remodeling. We propose to review current knowledge about this intriguing molecule and present pertinent information to determine the biological role of prominins and assess their importance in medicine and cancer research. The primary audience for this book is geared towards scientists and researchers with interest in cancer stem cells, stem cells, cell biology,

neurobiology, and regenerative medicine.

C.F. Rehnberg - Carl F. Rehnberg 1985

Ten Years of TerraSAR-X—Scientific Results

- Michael Eineder 2019-04-16

This Special Issue is a collection of papers addressing the scientific use of data acquired in the course of the TerraSAR-X mission 10 years after launch. The articles deal with the mission itself, the accuracy of the products, with differential interferometry, and with applications in the domains cryosphere, oceans, wetlands, and urban areas.

OECD Health Policy Studies Who Cares? Attracting and Retaining Care Workers for the Elderly - OECD 2020-06-22

This report presents the most up-to-date and comprehensive cross-country assessment of long-term care (LTC) workers, the tasks they perform and the policies to address shortages in OECD countries. It highlights the importance of improving working conditions in the sector and making care work more attractive and shows that there is space to increase productivity by enhancing the use of technology, providing a better use of skills and investing in prevention.

Privacy-Preserving Deep Learning - Kwangjo Kim 2021-07-22

This book discusses the state-of-the-art in privacy-preserving deep learning (PPDL), especially as a tool for machine learning as a service (MLaaS), which serves as an enabling technology by combining classical privacy-preserving and cryptographic protocols with deep learning. Google and Microsoft announced a major investment in PPDL in early 2019. This was followed by Google's infamous announcement of "Private Join and Compute," an open source PPDL tools based on secure multi-party computation (secure MPC) and homomorphic encryption (HE) in June of that year. One of the challenging issues concerning PPDL is selecting its practical applicability despite the gap between the theory and practice. In order to solve this problem, it has recently been proposed that in addition to classical privacy-preserving methods (HE, secure MPC, differential privacy, secure enclaves), new federated or split learning for PPDL should also be applied. This concept involves building a cloud framework that enables collaborative

learning while keeping training data on client devices. This successfully preserves privacy and while allowing the framework to be implemented in the real world. This book provides fundamental insights into privacy-preserving and deep learning, offering a comprehensive overview of the state-of-the-art in PPDL methods. It discusses practical issues, and leveraging federated or split-learning-based PPDL. Covering the fundamental theory of PPDL, the pros and cons of current PPDL methods, and addressing the gap between theory and practice in the most recent approaches, it is a valuable reference resource for a general audience, undergraduate and graduate students, as well as practitioners interested learning about PPDL from the scratch, and researchers wanting to explore PPDL for their applications.

Lanthanides and Actinides in Molecular Magnetism - Richard A. Layfield 2015-01-20

The first reference on this rapidly growing topic provides an essential up-to-date guide to current and emerging trends. A group of international experts has been carefully selected by the editors to cover all the central aspects, with a focus on molecular species while also including industrial applications. The resulting unique overview is a must-have for researchers, both in academia and industry, who are entering or already working in the field.

Spatial Autocorrelation - Michael F. Goodchild 1986

Inequalities in Young People's Health - Candace Currie 2008-07-28

This international report from the Health Behaviour in School-aged Children (HBSC) World Health Organization collaborative cross-national study [...] presents the key findings on patterns of health among young people in 41 countries and regions across Europe and North America. The document presents a status report on health, health-related behaviour and the social contexts of young people's health in 2005/2006 and provides the latest evidence from a unique cross-national study on the well-being of young people in industrialized nations. [...] In addition to presenting key statistics on young people's health, this report has a special focus on health inequalities. It presents data on gender, age and geographic and socioeconomic

dimensions of health differentials. The aim of the report is to highlight where inequalities exist in aspects of young people's health and well-being in order to inform and influence policy and practice and to contribute to health improvement for all young people. [Ed.]

Physical Anti-Collision in RFID Systems - Xiaolei Yu 2021-04-15

This book highlights the innovative applications of electromagnetics, optics, thermodynamics theories in creating methods for physical-layer collision prevention- "physical anti-collision" in radio frequency identification (RFID) systems. Using engineering mathematical methods as the core of detection and control algorithm design, it proposes semi-physical verification and detection techniques to the dynamic performance testing in RFID systems. The book also introduces the methods to build semi-physical hardware platforms using photoelectric sensing technology. The book provides valuable ideas to the applications of Internet of Things (IOT) systems in smart logistics, car networking, food traceability, anti-counterfeiting and other livelihood fields. It is worth reading for all researchers in IOT and optoelectronic engineering related industries.

Stroke Genetics - Hugh S. Markus 2003

Stroke is a major cause of death and the major cause of adult neurological disability in most of the world. Despite its importance on a population basis, research into the genetics of stroke has lagged behind that of many other disorders. However, the situation is now changing. An increasing number of single gene disorders causing stroke are being described, and there is growing evidence that polygenic factors are important in the risk of apparently "sporadic" stroke. Stroke Genetics provides an up-to-date review of the area, suitable for clinicians treating stroke patients, and both clinical and non-clinical researchers in the field of cerebrovascular disease. The full range of monogenic stroke disorders causing cerebrovascular disease, including ischaemic stroke, intracerebral haemorrhage, aneurysms and arteriovenous malformations, are covered. For each, clinical features, diagnosis, and genetics are described. Increasing evidence suggest that genetic factors are also important for the much more common multifactorial

stroke; this evidence is reviewed along with the results of genetic studies in this area. Optimal and novel strategies for investigating multifactorial stroke, including the use of intermediate phenotypes such as intima-media thickness and MRI detected small vessel disease are reviewed. The book concludes by describing a practical approach to investigating patients with stroke for underlying genetic disorders. Also included is a list of useful websites.

Airborne Measurements for Environmental Research - Manfred Wendisch 2013-04-15

This first comprehensive review of airborne measurement principles covers all atmospheric components and surface parameters. It describes the common techniques to characterize aerosol particles and cloud/precipitation elements, while also explaining radiation quantities and pertinent hyperspectral and active remote sensing measurement techniques along the way. As a result, the major principles of operation are introduced and exemplified using specific instruments, treating both classic and emerging measurement techniques. The two editors head an international community of eminent scientists, all of them accepted and experienced specialists in their field, who help readers to understand specific problems related to airborne research, such as immanent uncertainties and limitations. They also provide guidance on the suitability of instruments to measure certain parameters and to select the correct type of device. While primarily intended for climate, geophysical and atmospheric researchers, its relevance to solar system objects makes this work equally appealing to astronomers studying atmospheres of solar system bodies with telescopes and space probes.

Cell-based Biosensors - Qingjun Liu 2009-10-01

Written by recognized experts in the field, this leading-edge resource is the first book to systematically introduce the concept, technology, and development of cell-based biosensors. You find details on the latest cell-based biosensor models and novel micro-structure biosensor techniques. Taking an interdisciplinary approach, this unique volume presents the latest innovative applications of cell-based biosensors in a variety of biomedical

fields. The book also explores future trends of cell-based biosensors, including integrated chips, nanotechnology and microfluidics. Over 140 illustrations help clarify key topics throughout the book.

Brain and Heart Dynamics - Stefano Govoni 2020-10-16

This ambitious and comprehensive handbook represents an essential contribution to our current understanding of interactions between heart and brain, a research topic generating growing interest. Despite the increasing awareness that neural mechanisms are the primary cause of cardiac disease and its progression, therapy continues to focus on end-organ protection and does not approach the neural core of the problem. Growing public health problems such as heart failure are still treated with autonomic drugs that are 30-40 years old and simply act on cardiac receptors. However, it has now been shown that the progression of ischemic heart disease to heart failure is mainly due to abnormal central responses to incipient cardiac disease, with neural activation the primary cause rather than the consequence of cardiac remodeling. Written by leading international experts in their respective research areas, the book presents a variety of perspectives on the core topic: from social and philosophical to gender-related aspects. It is designed for a broad readership and includes dedicated sections for cardiologists, psychiatrists, neurologists and psychotherapists looking for a more insightful and targeted approach to neuro-cardiovascular disease.

Differential Optical Absorption

Spectroscopy - Ulrich Platt 2008-05-30

The first part of this book reviews the basics of atmospheric chemistry, radiation transport, and optical spectroscopy before detailing the principles underlying DOAS. The second part describes the design and application of DOAS instruments as well as the evaluation and interpretation of spectra. The recent expansion of DOAS application to the imaging of trace gas distributions by ground, aircraft, and satellite-based instruments is also covered.

The Climatology of Air-Mass and Frontal Extreme Precipitation - Ewa Łupikasza 2016-08-08

Based on a data series of more than 50 years, this book discusses spatial and seasonal variability in air-mass and frontal extreme precipitation frequency and as well as the relationship between their occurrence and atmospheric circulation. The climatology of air-mass and frontal extreme precipitation is presented for the first time on a European scale. Since there is no robust, automatic method of locating atmospheric fronts, this challenging task has to be performed manually. Moreover, there is limited availability of the complex sub-daily data that is necessary to recognize the

dynamic of meteorological fronts. The results show a clear regional and seasonal variety in the relationship between extreme precipitation occurrence and atmospheric circulation depending on precipitation origin. The probability of air-mass and frontal precipitation occurrence provides crucial information for studies in predictability and modeling. This book is intended for students, specialists in the field of climatology and climate change, climate process modelers, and other experts for whom extreme precipitation is important.x