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The Radiology Handbook J. S. Benseler 2014-06-17 Designed for busy medical students, The Radiology Handbook is a quick and easy reference for any practitioner who needs information on ordering or interpreting images. The book is divided into three parts: - Part I presents a table, organized from head to toe, with recommended imaging tests for common clinical conditions. - Part II is organized in a question and answer format that covers the following topics: how each major imaging modality works to create an image; what the basic precepts of image interpretation in each body system are; and where to find information and resources for continued learning. - Part III is an imaging quiz beginning at the head and ending at the foot. Sixty images are provided to self-test knowledge about normal imaging anatomy and common imaging pathology. Published in collaboration with the Ohio University College of Osteopathic Medicine, The Radiology Handbook is a convenient pocket-sized resource designed for medical students and non radiologists.

Environmental Biotechnology Volume 4 K. M. Gothandam

Nanoscience and Nanotechnology Marcel Van de Voorde 2018-06-11 Innovations in Nanoscience and Nanotechnology summarizes the state of the art in nano-sized materials. The authors focus on innovation aspects and highlight potentials for future developments and applications in health care, including pharmaceuticals, dentistry, and cosmetics; information and communications; energy; and chemical engineering. The chapters are written by leading researchers in nanoscience, chemistry, pharmacy, biology, chemistry, physics, engineering, medicine, and social science. The authors come from a range of backgrounds including academia, industry, and national and international laboratories around the world. This book is ideally suited for researchers and students in chemistry, physics, biology, engineering, materials science, and medicine and is a useful guide for industrialists. It aims to provide inspiration for scientists, new ideas for developers and innovators in industry, and guidelines for toxicologists. It also provides guidelines for agencies and government authorities to establish safe working conditions.

Collected Abstracts 1990

????? ?????? ???? Louis Costaz 2002 Compiled with the student in mind, Costaz's Syriac-French-English-Arabic dictionary provides for each Syriac gloss its meaning in French, English, and Arabic. Under each root lemma, all derivatives of the root are given with their morphological data. The entries are typeset so that the French, English or Arabic definitions are easily found. The dictionary also contains a mini dictionary of proper names..

Vaccine Design Sunil Thomas 2016-04-14 This text provides a practical guide providing step-by-step protocol to design and develop vaccines. Chapters detail protocols for developing novel vaccines against infectious bacteria, viruses, fungi, and parasites for humans and animals. Volume 2: Vaccines for Veterinary Diseases includes vaccines for farm animals and fishes, vaccine vectors and production, vaccine delivery systems, vaccine bioinformatics, vaccine regulation and intellectual property. Written for the Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Vaccine Design: Methods and Protocols, Volume 2: Vaccines for Veterinary Diseases aims to ensure successful results in the further study of this vital field.

The TAB Book of Arduino Projects: 36 Things to Make with Shields and Proto Shields Simon Monk 2014-11-05 The ultimate collection of DIY Arduino projects! In this easy-to-follow book, electronics guru Simon Monk shows you how to create a wide variety of fun and functional gadgets with the Arduino Uno and Leonardo boards. Filled with step-by-step instructions and detailed illustrations, The TAB Book of Arduino Projects: 36 Things to Make with Shields and Proto Shields provides a cost estimate, difficulty level, and list of required components for each project. You'll learn how to design custom circuits with Proto Shields and solder parts to the prototyping area to build professional-quality devices. Catapult your Arduino skills to the next level with this hands-on guide. Build these and many more innovative Arduino creations: Persistence-of-vision (POV) display High-power LED controller Color recognizer RFID door lock Fake dog Person counter Laser alarm Theramin-like instrument FM radio receiver Email notifier Network temperature and humidity sensor Seven segment LED clock Larson scanner Conway's game of life Singing plant Ultrasonic rangefinder Temperature and light logger Autoranging capacitance meter Geiger counter

Biostimulants in Agriculture Youssef Rouphael 2020-03-24

The Military & Politics in Pakistan, 1947-1997 Hasan Askari Rizvi 2000

Manuscript Remains of Buddhist Literature Found in Eastern Turkestan Augustus Frederic Rudolf Hoernle 2018-10-12 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Biophysical Aspects of Transmembrane Signaling Sandor Damjanovich 2006-03-30 Transmembrane signaling is one of the most

significant cell biological events in the life and death of cells in general and lymphocytes in particular. Until recently biochemists and biophysicists were not accustomed to thinking of these processes from the side of a high number of complex biochemical events and an equally high number of physical changes at molecular and cellular levels at the same time. Both types of researchers were convinced that their findings are the most decisive, having higher importance than the findings of the other scientist population. Both casts were wrong. Life, even at cellular level, has a number of interacting physical and biochemical mechanisms, which finally build up the creation of an "excited" cell that will respond to particular signals from the outer or inner world. This book handles both aspects of the signalling events, and in some cases tries to unify our concepts and help understand the signals that govern the life and death of our cells. Not only the understanding, but also the interference (e.g. medication) may depend on the full knowledge of both sides. These above statements are supported by the application of highly diverse physical and biochemical technologies demonstrated and explained by experts who are pioneers of their particular scientific field.

Consolidated Translation Survey United States. Central Intelligence Agency 1970-11

Manual of Home Health Nursing Procedures Robyn Rice 2000 CD-ROM contains full text for all the procedures available in the manual. Files are provided both as fully formatted Word 6.0 (.doc) documents and as text-only documents (.txt).

Cell Separation Methods and Applications Diether Recktenwald 1997-11-04 "Offers complete coverage and assessment of cell separation technologies for analytical and preparative isolations of biological cell populations—demonstrating how to select and devise optimal sorting strategies for applications in biochemistry, immunology, cell and molecular biology, and clinical research."

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Diagnostic Radiology Physics International Atomic Energy Agency 2013-03-01 This publication is aimed at students and teachers involved in programmes that train medical physicists for work in diagnostic radiology. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of modern diagnostic radiology. This makes it particularly useful for graduate students and residents in medical physics programmes. The material presented in the publication has been endorsed by the major international organisations and is the foundation for academic and clinical courses in both diagnostic radiology physics and in emerging areas such as imaging in radiotherapy.

iPhone 5 For Dummies Edward C. Baig 2012-11-07 The full-color guide to getting the most out of your iPhone Completely updated and revised to include iOS 6, iCloud, and the latest iPhone 5 features, this full-color book is your guide to all things iPhone. Bestselling veteran authors Edward Baig and Bob "Dr. Mac" LeVitus introduce you to the capabilities of the iPhone for making phone calls, browsing the Internet, sending and receiving e-mails, working with the calendar, watching and recording HD videos, taking and editing great photos, and much more. You'll discover how to set up iTunes, buy music and videos, protect your information, troubleshoot, multitask, and download the hundreds of thousands of apps available from the App Store. Includes coverage of iPhone 5 and iPhone 4S as well as the older iPhone 4 model Gets you started with your iPhone, and introduces you to the multitouch interface, synching with iCloud, making phone and video calls, texting, working with the calendar, and more Explains setting up iTunes, watching your favorite movies and TV shows, taking stunning photos, and listening to your favorite music Helps you get organized with the calendar and Reminders features, keep on top of the latest news with Notification Center, and communicate with Siri, your voice-activated virtual assistant Walks you through connecting wirelessly, sending and receiving e-mails, making FaceTime video calls, getting directions from the all new Maps app, protecting your information, and troubleshooting Addresses the latest updates, iCloud, and new iOS 6 features that make your iPhone even more powerful and easy to use iPhone 5 For Dummies, 6th Edition is presented in the straightforward-but-fun style that defines the series. It's just the book you need to get acquainted with your brand-new iPhone.

Digital Mammography Susan M. Astley 2006-09-29 This book constitutes the refereed proceedings of the 8th International Workshop on Digital Mammography, IWDM 2006, held in Manchester, UK, June 2006. The book presents 52 revised full papers and 34 revised poster papers, organized in topical sections on breast density, CAD, clinical practice, tomosynthesis, registration and multiple view mammography, physics models, wavelet methods, full-field digital mammography, and segmentation.

Chart Patterns : Trading-Desk Booklet Satish Gaire 2020-12 Chart Patterns booklet is designed to be your quick source for identifying chart patterns to help you trade more confidently. This book introduces & explains 60+ patterns that you are bound to see in Stocks, Mutual Funds, ETFs, Forex, and Options Trading. With this book, you will not need to flip through hundreds of pages to identify patterns. This book will improve the way you trade. Unlike other Technical Analysis books, this Chart pattern book will help you master Charting & Technical Analysis by making it simple enough to understand & use on a day to day basis.

The Consolidated Radio Call Book Consrad Co 1922

Merritt's Neurology Handbook Pietro Mazzoni (M.D.) 2006 Designed for portability and quick reference on the wards and in other clinical settings, this handbook presents the essentials of Merritt's Neurology, Eleventh Edition. The handbook follows the text chapter by chapter, presenting key information on signs and symptoms, diagnostic tests, and neurologic disorders in an easy-to-scan numbered-list format. This pocket-sized reference is perfect for students, residents, and practitioners who need the clinical information from Merritt's in a format that is practical for on-the-spot consultation. This edition features new chapters on endovascular surgical neuroradiology and on psychiatric conditions—schizophrenia, mood disorders, anxiety, and somatoform disorders. Other new chapters cover disorders of DNA translation, pachymeningitis, and Hashimoto encephalopathy.

Dendritic Cell Protocols Shalin H. Naik 2012-02-25 Given the vital importance of immune system research, the gathering of clear, consistent, and informative protocols involving the study of dendritic cells is paramount. Bringing the popular first edition fully up to date, Dendritic Cell Protocols, Second Edition presents protocols from experts in the field that cover the basics and more complex forays into the exploration of DC development and function, both in mice and humans. The first section of the volume involving humans explores topics such as the isolation of blood DC subtypes, primary skin Langerhans cells, and the generation of gene-manipulated human DCs with the inclusion of more clinically relevant methods as well, while the second section involving rodent models delves into DC and precursor generation in vitro, isolation ex vivo, disease models, as well as DC functions and properties. Written in the highly successful Methods in Molecular Biology™ series style, chapters include

introductions to their respective subjects, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, *Dendritic Cell Protocols, Second Edition* aims to become a bench-side handbook for both beginners and experts in the field of DC research and a long-term reference for some of the most popular methods put forward by those who lead the field.

Flow Cytometry and Sorting Myron R. Melamed 1990-04-30 Revised and updated, this Second Edition of a classic text describes and evaluates--in greater detail--the most recent practical applications of flow cytometry technique to basic cellular biological investigations and clinical research on human neoplasms. Ideal for the experienced researcher as well as the novice, this informative book offers state-of-the-art reviews of all aspects of flow cytometry. New articles highlight investigations of higher plants, the flow cytometry of microorganisms, and measurements of intracellular ionized calcium and membrane potential--illustrating techniques of specimen preparation, measurement and analysis for each. New chapters examine applications of flow cytometry to medical genetics, genetic toxicology, and ultrasensitive analysis of molecules in solution. The Second Edition goes beyond the traditional analysis of DNA histograms with BrdU incorporation and DNA denaturability to identify and analyze the cell cycle more precisely. New or rewritten chapters discuss the importance of flow cytometry for measurements of nucleic acids, chromatin, and DNA and cover the cytometry of sperm and the cytopathic effects of viruses.

Microbial-mediated Induced Systemic Resistance in Plants Devendra K. Choudhary 2016-03-22 With a focus on food safety, this book highlights the importance of microbes in sustainable agriculture. Plants, sessile organisms that are considered as primary producers in the ecosystem and communicate with above- and below-ground communities that consist of microbes, insects, and other vertebrate and invertebrate animals, are subjected to various kinds of stress. Broadly speaking, these can be subdivided into abiotic and biotic stresses. Plants have evolved to develop elaborate mechanisms for coping with and adapting to the environmental stresses. Among other stresses, habitat-imposed biotic stress is one serious condition causing major problems for crop productivity. Most plants employ plant-growth-promoting microorganisms (PGPMs) to combat and protect themselves from stresses and also for better growth. PGPMs are bacteria associated with plant roots and they augment plant productivity and immunity. They are also defined as root-colonizing bacteria that have beneficial effects on plant growth and development.

Remarkably, PGPMs including mycorrhizae, rhizobia, and rhizobacteria (*Acinetobacter*, *Agrobacterium*, *Arthrobacter*, *Azospirillum*, *Bacillus*, *Bradyrhizobium*, *Frankia*, *Pseudomonas*, *Rhizobium*, *Serratia*, *Thiobacillus*) form associations with plant roots and can promote plant growth by increasing plants' access to soil minerals and protecting them against pathogens. To combat the pathogens causing different diseases and other biotic stresses, PGPMs produce a higher level of resistance in addition to plants' indigenous immune systems in the form of induced systemic resistance (ISR). The ISR elicited by PGPMs has suppressed plant diseases caused by a range of pathogens in both the greenhouse and field. As such, the role of these microbes can no longer be ignored for sustainable agriculture. Today, PGPMs are also utilized in the form of bio-fertilizers to increase plant productivity. However, the use of PGPMs requires a precise understanding of the interactions between plants and microbes, between microbes and microbiota, and how biotic factors influence these relationships. Consequently, continued research is needed to develop new approaches to boost the efficiency of PGPMs and to understand the ecological, genetic and biochemical relationships in their habitat. The book focuses on recent research concerning interactions between PGPMs and plants under biotic stress. It addresses key concerns such as – 1. The response of benign microbes that benefit plants under biotic stress 2. The physiological changes incurred in plants under harsh conditions 3. The role of microbial determinants in promoting plant growth under biotic stress The book focuses on a range of aspects related to PGPMs such as their mode of action, priming of plant defence and plant growth in disease challenged crops, multifunctional bio-fertilizers, PGPM-mediated disease suppression, and the effect of PGPMs on secondary metabolites etc. The book will be a valuable asset to researchers and professionals working in the area of microbial-mediated support of plants under biotic stress.

Genome Mapping and Genomics in Fishes and Aquatic Animals Thomas D. Kocher 2008-06-07 Mapping of animal genomes has generated huge databases and several new concepts and strategies, which are useful to elucidate origin, evolution and phylogeny. Genetic and physical maps of genomes further provide precise details on chromosomal location, function, expression and regulation of academically and economically important genes. The series *Genome Mapping and Genomics in Animals* provides comprehensive and up-to-date reviews on genomic research on a large variety of selected animal systems, contributed by leading scientists from around the world. This volume summarizes the first era of genomic studies of aquaculture species, in which the tools and resources necessary to support whole-genome sequencing were developed. These tools will enhance efforts toward selective breeding of aquaculture species. Included in this volume are summaries of work on salmonids, cyprinids, catfish, tilapias, European sea bass, Japanese flounder, shrimps and oysters.

Petey (new cover) Ben Mikaelson 2010-06-22 In 1922, at the age of two, Petey's distraught parents commit him to the state's insane asylum, unaware that their son is actually suffering from severe cerebral palsy. Bound by his wheelchair and struggling to communicate with the people around him, Petey finds a way to remain kind and generous despite the horrific conditions in his new "home." Through the decades, he befriends several caretakers but is heartbroken when each eventually leaves him. Determined not to be hurt again, he vows to no longer let hope of lifelong friends and family torment him. That changes after he is moved into a nursing home and meets a young teen named Trevor Ladd; he sees something in the boy and decides to risk friendship one last time. Trevor, new to town and a bit of a loner, is at first weary of the old man in the wheelchair. But after hearing more of his story, Trevor learns that there is much more to Petey than meets the eye. Petey is a touching story of friendship, discovery, and the uplifting power of the human spirit.

The Wild Oryza Genomes Tapan K. Mondal 2018-02-15 This book focuses on the latest genome sequencing of the 25 wild *Oryza* species, public and private genomic resources, and their impact on genetic improvement research. It also addresses the untapped reservoir of agronomically important traits in wild *Oryza* species. Rice is a model crop plant that is frequently used to address several basic questions in plant biology, yet its wild relatives offer an untapped source of agronomically important alleles that are absent in the rice gene pool. The genus *Oryza* is extremely diverse, as indicated by a wide range of chromosome numbers, different ploidy levels and genome sizes. After a 13-year gap from the first sequencing of rice in the 2002, the genomes of 11 wild *Oryza* species have now been sequenced and more will follow. These vast genomic resources are extremely useful for addressing several basic questions on the origin of the genus, evolutionary relationships between the species, domestication, and environmental adaptation, and also help to substantiate molecular breeding and pre-breeding work to

introgress useful characters horizontally from wild species into cultivated rice.

Sensors and Transducers Ian Sinclair 2000-12-05 In this book Ian Sinclair provides the practical knowhow required by technician engineers, systems designers and students. The focus is firmly on understanding the technologies and their different applications, not a mathematical approach. The result is a highly readable text which provides a unique introduction to the selection and application of sensors, transducers and switches, and a grounding in the practicalities of designing with these devices. The devices covered encompass heat, light and motion, environmental sensing, sensing in industrial control, and signal-carrying and non-signal switches. Get up to speed in this key topic through this leading practical guide Understand the range of technologies and applications before specifying Gain a working knowledge with a minimum of maths

Food Hydrocolloids K. Nishinari 2012-12-06 It is now well recognised that the texture of foods is an important factor when consumers select particular foods. Food hydrocolloids have been widely used for controlling in various food products their viscoelasticity, emulsification, gelation, dispersion, thickening and many other functions. An international journal, FOOD HYDROCOLLOIDS, launched in 1986 has published a number of stimulating papers, and established an active forum for promoting the interaction between academics and industrialists and for combining basic scientific research with industrial development. Although there have been various research groups in many food processing areas in Japan, such as fish paste (kamaboko, surimi), soybean curd (tofu), agar jelly dessert, kuzu starch jelly, kimizu (Japanese style mayonnaise), their activities have been conducted in isolation of one another. The interaction between the various research groups operating in the various sectors has been weak. Symposia on food hydrocolloids have been organised on several occasions in Japan since 1985. Professor Glyn O. Phillips, the Chief Executive Editor of FOOD HYDROCOLLOIDS, suggested to us that we should organise an international conference on food hydrocolloids. We discussed it on many occasions, and eventually decided to organise such a meeting, and extended the scope to include recent development in proteinaceous hydrocolloids, and their nutritional aspects, in addition to polysaccharides and emulsions.

Mycorrhiza in Tropical and Neotropical Ecosystems Mohamed Hijri 2018-10-19 Mycorrhizal symbiosis is a mutualistic association of plant roots and fungi that plays a major role in ecosystem function and diversification, as well as its stability and productivity. It also plays a key role in the biology and ecology of forest trees, affecting growth, water and nutrient absorption and protection against soil-borne pathogens. However, the mycorrhizal research in tropical and neotropical ecosystems remains largely unexplored despite its importance in tropical and neotropical ecosystems. These ecosystems represent more than 0.6% of the total land ecosystems and they have a crucial role in the Earth's biogeochemical cycling and climate. Threats to tropical forest biodiversity should therefore encourage investigations and inventories of mycorrhizal diversity, function and ecology in tropical latitudes because they concern ecologically and economically important plant species. This Research Topic aims to provide an overview of the knowledge of mycorrhizal symbioses in tropical and neotropical ecosystems. For this Research Topic, we welcome articles that address the diversity, ecology and function of mycorrhiza associated with plants, the impacts of mycorrhiza on plant diversity and composition, the regeneration and dynamics of ecosystems, and biomass production in ecosystems.

September Moon Candice E. Proctor 2000 Patrick O'Reilly loves life in the wilderness. All he needs is land, his work, and the company of the children he adores. The last thing he wants is the prim and proper Englishwoman who arrives to care for his unruly children. Amanda Davenport seems unprepared for the harshness of the place O'Reilly calls home, and yet he finds himself inexplicably drawn to this proud woman and the fire he knows exists beneath her refined exterior. Accepting a job as governess is the only way Amanda can earn passage back to her beloved England and away from this country that she hates -- rugged, uncivilized, intoxicating, like Patrick O'Reilly himself. Despite her fears, Amanda gradually awakens to the shimmering heat of this wild primitive land, to the children she can't help but love, and to this magnificent man whose raw sensuality dares to expose her own undeniable passion....

Modern Photography 1981-07

High Dynamic Range Imaging Erik Reinhard 2010-05-28 High Dynamic Range Imaging, Second Edition, is an essential resource for anyone working with images, whether it is for computer graphics, film, video, photography, or lighting design. It describes HDRI technology in its entirety and covers a wide-range of topics, from capture devices to tone reproduction and image-based lighting. The techniques described enable students to produce images that have a dynamic range much closer to that found in the real world, leading to an unparalleled visual experience. This revised edition includes new chapters on High Dynamic Range Video Encoding, High Dynamic Range Image Encoding, and High Dynamic Range Display Devices. All existing chapters have been updated to reflect the current state-of-the-art technology. As both an introduction to the field and an authoritative technical reference, this book is essential for anyone working with images, whether in computer graphics, film, video, photography, or lighting design. New material includes chapters on High Dynamic Range Video Encoding, High Dynamic Range Image Encoding, and High Dynamic Range Display Devices Written by the inventors and initial implementors of High Dynamic Range Imaging Covers the basic concepts (including just enough about human vision to explain why HDR images are necessary), image capture, image encoding, file formats, display techniques, tone mapping for lower dynamic range display, and the use of HDR images and calculations in 3D rendering Range and depth of coverage is good for the knowledgeable researcher as well as those who are just starting to learn about High Dynamic Range imaging The prior edition of this book included a DVD-ROM. Files from the DVD-ROM can be accessed at: http://www.erikreinhard.com/hdr_2nd/index.html

The Phantoms of Medical and Health Physics Larry A. DeWerd 2013-11-25 The purpose and subject of this book is to provide a comprehensive overview of all types of phantoms used in medical imaging, therapy, nuclear medicine and health physics. For ionizing radiation, dosimetry with respect to issues of material composition, shape, and motion/position effects are all highlighted. For medical imaging, each type of technology will need specific materials and designs, and the physics and indications will be explored for each type. Health physics phantoms are concerned with some of the same issues such as material heterogeneity, but also unique issues such as organ-specific radiation dose from sources distributed in other organs. Readers will be able to use this book to select the appropriate phantom from a vendor at a clinic, to learn from as a student, to choose materials for custom phantom design, to design dynamic features, and as a reference for a variety of applications. Some of the information enclosed is found in other sources, divided especially along the three categories of imaging, therapy, and health physics. To our knowledge, even though professionally, many medical physicists need to bridge the three categories described above.

Silicon and Plant Diseases Fabrício A. Rodrigues 2015-10-15 Silicon, considered to be the second most abundant mineral

element in soil, plays an important role in the mineral nutrition of plants. A wide variety of monocot and dicot species have benefited from silicon nutrition, whether direct or indirect, when they are exposed to different types of abiotic and or biotic stresses. Besides the many agronomic and horticultural benefits gained by maintaining adequate levels of this element in the soil and also in the plant tissue, the most notable effect of silicon is the reduction in the intensities of a number of plant diseases caused by biotrophic, hemibiotrophic and necrotrophic plant pathogens in many crops of great economic importance. The aim of this book is to summarize our current understanding of the effects of silicon on plant diseases. The chapters address the dynamics of silicon in soils and plants; the history of silicon in the control of plant diseases; the use of silicon to control soil-borne, seed-borne and foliar diseases in monocots and dicots; the mechanisms involved in the host resistance against infection by plant pathogens mediated by silicon as well as the current knowledge at the omics level, and finally, highlights and prospects for using silicon in the future.

Fuzzy Set Theory — and Its Applications Hans-Jürgen Zimmermann 2013-12-01

Radical Territories in the Brazilian Amazon Laura Zanotti 2016-11-15 Radical territories in the Brazilian Amazon sheds light on the creative and groundbreaking efforts Kayapao peoples deploy to protect their lands and livelihoods in Brazil.

Rice Improvement Jauhar Ali 2021-05-05 This book is open access under a CC BY 4.0 license. By 2050, human population is expected to reach 9.7 billion. The demand for increased food production needs to be met from ever reducing resources of land, water and other environmental constraints. Rice remains the staple food source for a majority of the global populations, but especially in Asia where ninety percent of rice is grown and consumed. Climate change continues to impose abiotic and biotic stresses that curtail rice quality and yields. Researchers have been challenged to provide innovative solutions to maintain, or even increase, rice production. Amongst them, the 'green super rice' breeding strategy has been successful for leading the development and release of multiple abiotic and biotic stress tolerant rice varieties. Recent advances in plant molecular biology and biotechnologies have led to the identification of stress responsive genes and signaling pathways, which open up new paradigms to augment rice productivity. Accordingly, transcription factors, protein kinases and enzymes for generating protective metabolites and proteins all contribute to an intricate network of events that guard and maintain cellular integrity. In addition, various quantitative trait loci associated with elevated stress tolerance have been cloned, resulting in the detection of novel genes for biotic and abiotic stress resistance. Mechanistic understanding of the genetic basis of traits, such as N and P use, is allowing rice researchers to engineer nutrient-efficient rice varieties, which would result in higher yields with lower inputs. Likewise, the research in micronutrients biosynthesis opens doors to genetic engineering of metabolic pathways to enhance micronutrients production. With third generation sequencing techniques on the horizon, exciting progress can be expected to vastly improve molecular markers for gene-trait associations forecast with increasing accuracy. This book emphasizes on the areas of rice science that attempt to overcome the foremost limitations in rice production. Our intention is to highlight research advances in the fields of physiology, molecular breeding and genetics, with a special focus on increasing productivity, improving biotic and abiotic stress tolerance and nutritional quality of rice.

Patient Dosimetry for X-rays Used in Medical Imaging 2005

Jataka Parijata V. Subramanya Sastri 1993-01-01