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Phytochrome Properties and Biological Action Springer Science & Business Media

This successful book, now in a revised and updated second edition, reviews all aspects of anterior cruciate ligament (ACL) injuries in female athletes, with the focus on complete, noncontact ACL injuries. The opening section discusses anatomy and biomechanics and explains the short- and long-term impacts of complete ACL ruptures, including long-term muscle dysfunction and joint arthritis. Risk factors and possible causes of the higher noncontact ACL injury rates in female athletes compared with male athletes are then discussed in depth. Detailed attention is devoted to neuromuscular training programs and their effectiveness in reducing noncontact ACL injury rates in female athletes, as well as to sports-specific ACL injury prevention and conditioning programs of proven value. Rehabilitation programs after ACL injury and reconstruction that reduce the risk of a future injury are explored, and the concluding section looks at worldwide implementation of neuromuscular ACL injury prevention training and future research directions. The book will be of value to orthopedic surgeons, physical therapists, athletic trainers, sports medicine primary care physicians, and strength and conditioning specialists.

Grid and Cooperative Computing - GCC 2004 Workshops Springer

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.

Manual of International Marketing. Springer

Vanadium is an essential element for humans and animals. The toxicity of vanadium at higher concentrations could be a global environmental concern and a significant issue for both environmental protection and economic benefits. The relevance of anthropogenic vanadium in the environment has increased significantly in recent years due to an increased demand for vanadium in high-temperature

industrial activities. This book summarizes vanadium's current research and explains its behavior and mobilization in the environment, especially in soils, sediments, water and plants. Through case studies from various countries, it discusses critical limits set and risk assessment approaches and remediation approaches of vanadium-contaminated soils. FEATURES Provides a comprehensive overview of vanadium in the total environment Covers the role of vanadium in various environments such as soils, sediments, water and plants Includes bioavailability studies and further case studies from various countries around the world Focuses on a better understanding of biogeochemical processes of vanadium Is written by international experts who present the current stage of the knowledge including innovative remediation and management approaches of vanadium-contaminated sites This book will be of use to upper-level undergraduate and graduate students taking courses in soil science, environmental science, soil ecology, water science, plant science, ecotoxicology, geology and geography as well as scientists, lecturers, environmental and technical engineers, ecologists, applied ecological scientists and managers.

Microbial Survival in the Environment Springer Science & Business Media

Top executives in international marketing and marketing professors give hands-on theoretical insights and practical guidelines for the most relevant problems in international marketing. The book is structured by easily accessible marketing catchwords and contains one in-depth, compact article per catchword.

Nuclear Science Abstracts CRC Press

This book is a collection of data on the tenacity in the environment of bacteria and some rickettsiae important in medicine and veterinary medicine. These data are of fundamental importance to physicians, veterinarians, epidemiologists and others when, in their practices, they are confronted with epidemics of contagious diseases or outbreaks of foodborne illnesses. At such times prompt answers are often needed to limit the problem, and thus to protect the public's health. Since data needed for such a purpose are widely distributed in the international scientific literature, the occasional desperate literature search is likely to miss some of the information that is available. This book seeks to fill that void. It lies in the nature of a compilation such as this is that it can never be totally complete. The compilation requires continual up-dating to include new information, and some currently acceptable information may have to be corrected as new data become available. However, most of the information in this compilation will never be out-of-date. The authors are always thankful for suggestions from others. Collection of the data in this book resulted from, first, several decades of studying the literature, and, second, literature searches made by the Institut für Dokumentationswesen in Frankfurt a. M., the Biomedizinische Datenbank of Hoechst A. G.

Fundamentals of Semiconductors Springer

The five-volume set LNCS 8004--8008 constitutes the refereed proceedings of the 15th International Conference on Human-Computer Interaction, HCII 2013, held in Las Vegas, NV, USA in July 2013. The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This volume contains papers in the thematic area of human-computer Interaction, addressing the following major topics: HCI in healthcare; games and gamification; HCI in learning and education; in-vehicle Interaction.

Cooperative Information Agents IV - The Future of Information Agents in Cyberspace CRC Press

Basic Transesophageal and Critical Care Ultrasound provides an overview of transesophageal ultrasound of the heart, lung, and upper abdomen as well as basic ultrasound of the brain, lung, heart, abdomen, and vascular system. Ultrasound-guided procedures commonly used in critically ill patients are also covered. With more than 400 clinical images, this well-illustrated text and its accompanying videos demonstrate new developments and challenges for those interested in mastering basic transesophageal echocardiography (TEE) and bedside surface ultrasound. Each chapter is presented in an easy-to-read format that includes color diagrams and ultrasound images which optimize interactive learning for both novice and experienced clinicians. The book is divided into two parts. The first is dedicated to basic TEE while the second provides focused coverage of bedside ultrasound. The book also includes chapters on extra-cardiac TEE and ultrasound of the brain--unconventional areas that will become more important in the future as clinicians evaluate not only the etiology of hemodynamic instability but also the impact on multiple organs and systems such as the kidney, liver, splanchnic perfusion, and brain. This text is an invaluable resource to those preparing for the National Board of Echocardiography's Examination of Special Competence in Basic Perioperative Transesophageal Echocardiography (PTEeXAM) and its equivalents outside the USA and Canada. In addition, it prepares physicians for the American College of Chest Physician's critical care ultrasound certification. The contents follow the syllabus of the TEE basic echo exam to ensure complete coverage of a trainee's requirements. It also includes sample questions and two helpful mock exams. Written by a multidisciplinary team of experts in TEE, the book

is a must-have for those in training and in practice.

The Algorithm Design Manual Springer

This book constitutes the refereed proceedings of the 23rd International Conference on Principles and Practice of Multi-Agent Systems, PRIMA 2020, held in Nagoya, Japan, in November 2020. The 19 full papers presented and 13 short papers were carefully reviewed and selected from 50 submissions. Due to COVID-19, the conference was held online. The conference covers a wide range of ranging from foundations of agent theory and engineering aspects of agent systems, to emerging interdisciplinary areas of agent-based research.

OCT Atlas Springer Science & Business Media

This volume constitutes selected papers from the 12th International Conference on Text, Speech and Dialogue, TSD 2009, held in Pilsen, Czech Republic, in September 2009. This volume contains a collection of submitted papers presented at the conference which were thoroughly reviewed by three members of the conference reviewing team consisting of more than 40 top specialists in the conference topic areas. A total of 53 accepted papers out of 112 submitted, altogether contributed 127 authors and co-authors, were selected for presentation at the conference by the program committee and then included in this book. Theoretical and more general contributions were presented in common (plenary) sessions. Problem oriented sessions as well as panel discussions then brought together the specialists in limited problem areas with the aim of exchanging knowledge and skills resulting from research projects of all kinds.

Routledge Handbook of War, Law and Technology Springer Science & Business Media

A preliminary version of the programming language Pascal was drafted in 1968. It followed in its spirit the Algol-6m and Algol-W line of languages. After an extensive development phase, a first compiler became operational in 197m, and publication followed a year later (see References 1 and 8, p.1m4). The growing interest in the development of compilers for other computers called for a consolidation of Pascal, and two years of experience in the use of the language dictated a few revisions. This led in 1973 to the publication of a Revised Report and a definition of a language representation in terms of the ISO character set. This booklet consists of two parts: The User Manual, and the Revised Report. The Manual is directed to those who have previously acquired some familiarity with computer programming, and who wish to get acquainted with the language Pascal. Hence, the style of the Manual is that of a tutorial, and many examples are included to demonstrate the various features of Pascal. Summarising tables and syntax specifications are added as Appendices. The Report is included in this booklet to serve as a concise, ultimate reference for both programmers and

implementors. It defines stAndArd Pascal which constitutes a common base between various implementations of the language. *The Universal Access Handbook* Springer Science & Business Media
In recent years, the field of Universal Access has made significant progress in consolidating theoretical approaches, scientific methods and technologies, as well as in exploring new application domains. Increasingly, professionals in this rapidly maturing area require a comprehensive and multidisciplinary resource that addresses current principles

Vanadium in Soils and Plants Springer Science & Business Media

A highly practical approach to occupational dermatoses combined with the skill and experience of specialists in clinical and experimental dermatology. Great care is taken throughout to provide the information urgently needed for daily patient management, with concise tables, algorithms, and figures on how to optimise the diagnostic procedure for high-quality patient care and expert opinion. This handbook provides the relevant job descriptions, job-specific diagnostic algorithms and a detailed description of allergens and irritants such that readers can master even difficult and unusual problems in occupational dermatology.

Intelligent Decision Technologies Elsevier

This book describes in detail rehabilitation protocols specific for those disorders that most frequently induce vertigo and dizziness. In particular, it highlights exercise protocols that will enable the best result to be obtained within the shortest time and with the most enduring therapeutic effect. Drawing on their personal experience, the authors describe physical exercises that will prove effective in delivering vestibular rehabilitation all over the world, regardless of the rehabilitation tools available. The presented protocols cover vertigo in a wide range of conditions. Helpful information is also provided on the clinical approach to vertigo and dizziness, vestibular rehabilitation from Cawthorne-Cooksey onward and the role of life-style counseling. By documenting effective functional and therapeutic approaches, *Vertigo Rehabilitation Protocols* will be an invaluable resource for neurologists, ENT physicians, orthopedists and rehabilitation specialists.

ACL Injuries in the Female Athlete Lippincott Williams & Wilkins

Piping and Pipeline Calculations Manual, Second Edition provides engineers and designers with a quick reference guide to calculations, codes, and standards applicable to piping systems. The book considers in one handy reference the multitude of pipes, flanges, supports, gaskets, bolts, valves, strainers, flexibles, and expansion joints that make up these often complex systems. It uses hundreds of calculations and examples based on the author's 40 years of experiences as both an engineer and instructor. Each example demonstrates how the code and standard has been correctly

and incorrectly applied. Aside from advising on the intent of codes and standards, the book provides advice on compliance. Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer, manufacturer, fabricator, supplier, erector, examiner, inspector, and owner to do to prevent such failures. The book enhances participants' understanding and application of the spirit of the code or standard and form a plan for compliance. The book covers American Water Works Association standards where they are applicable. Updates to major codes and standards such as ASME B31.1 and B31.12 New methods for calculating stress intensification factor (SIF) and seismic activities Risk-based analysis based on API 579, and B31-G Covers the Pipeline Safety Act and the creation of PhMSA

The Volume Library Springer Science & Business Media

Proceedings of the NATO Advanced Research Workshop on Phytochrome Properties and Biological Action held in Chichester, U.K., July 22-27, 1990
Optical Activity of Proteins and Other Macromolecules Springer Science & Business Media

Advances in Agronomy continues to be recognized as a leading reference and a first-rate source of the latest research in agronomy. Major reviews deal with the current topics of interest to agronomists, as well as crop and soil scientists. As always, the subjects covered are varied and exemplary of the myriad subject matter dealt with by this long-running serial. Editor Donald Sparks, former president of the Soil Science Society of America and current president of the International Union of Soil Science, is the S. Hallock du Pont Chair of Plant and Soil Sciences at The University of Delaware. Volume 82 contains eight state-of-the-art reviews on topics of interest in the plant and soil sciences. Three of the reviews present cutting-edge molecular scale techniques and approaches that directly impact food production, crop improvement, and environmental quality and sustainability.

Computer Algebra Handbook Elsevier

OCT provided a great advantage over other diagnostic modalities, as it could noninvasively provide tomographic images of the retina of a living eye. As a result, a number of new findings in retinal diseases were made using the time-domain OCT. OCT has now become an essential medical equipment OCT has now become an essential medical equipment in ophthalmic care and quality textbooks describing the functionality of OCT are very important in the education of young ophthalmologists and eye care personnel. In this book are chosen high quality OCT images of rather common diseases as well as images of several rare diseases.

Edible Medicinal and Non-Medicinal Plants Springer

This volume provides an authoritative, cutting-edge resource on the characteristics of both technological and social change in warfare in the twenty-first century, and the challenges such

change presents to international law. The character of contemporary warfare has recently undergone significant transformation in several important respects: the nature of the actors, the changing technological capabilities available to them, and the sites and spaces in which war is fought. These changes have augmented the phenomenon of non-obvious warfare, making understanding warfare one of the key challenges. Such developments have been accompanied by significant flux and uncertainty in the international legal sphere. This handbook brings together a unique blend of expertise, combining scholars and practitioners in science and technology, international law, strategy and policy, in order properly to understand and identify the chief characteristics and features of a range of innovative developments, means and processes in the context of obvious and non-obvious warfare. The handbook has six thematic sections: Law, war and technology Cyber warfare Autonomy, robotics and drones Synthetic biology New frontiers International perspectives. This interdisciplinary blend and the novel, rich and insightful contribution that it makes across various fields will make this volume a crucial research tool and guide for practitioners, scholars and students of war studies, security studies, technology and design, ethics, international relations and international law.

Literature 1985, Part 1 Springer Nature

Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy, astrophysics, and their border fields. It is devoted to the recording, summarizing, and indexing of the relevant publications throughout the world. Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen-Institut under the auspices of the International Astronomical Union. Volume 39 records literature published in 1985 and received before August 15, 1985. Some older documents which we received late and which are not surveyed in earlier volumes are included too. We acknowledge with thanks contributions of our colleagues all over the world. We also express our gratitude to all organizations, observatories, and publishers which provide us with complimentary copies of their publications. On account of the introduction of an object index the scope of index information will be considerably enlarged beginning with this volume. In connection with the subject index an additional source to satisfy the needs of retrieval is opened up. Starting with Volume 33, all the recording, correction, and data processing work was done by means of computers. The recording was done by our technical staff members Ms. Helga

Ballmann, Ms. Mona El-Choura, Ms. Monika Kohl, Ms. Sylvia Matyssek. Ms. Karin Burkhardt, Ms. Susanne Schlotelburg, and Mr. Stefan Wagner supported our task by careful proofreading. It is a pleasure to thank them all for their encouragement. Heidelberg, September 1985 The Editors Contents Introduction

Adult CNS Radiation Oncology MDPI

This book elucidates the radiation therapy protocols and procedures for the management of adult patients presenting with primary benign and malignant central nervous system tumors. With the development of new treatment strategies and rapid advancement of radiation technology, it is crucial for radiation oncologists to maintain and refine their knowledge and skills. Dedicated exclusively to adult CNS radiation oncology, this textbook explores CNS tumors ranging from the common to the esoteric as well as secondary cancers of metastatic origin. The first half of the book is organized anatomically: tumors of the brain, spinal cord, leptomeninges, optic pathway, ocular choroid, and skull base. The second half covers primary CNS lymphoma, rare CNS tumors, metastatic brain disease, vascular conditions of the CNS, radiation-associated complications, and radiation modalities. Each chapter provides guidance on treatment field design, target delineation, and normal critical structure tolerance constraints in the context of the disease being treated. Learning objectives, case studies, and Maintenance of Certification Self-Assessment Continuing Medical Education-style questions and answers are incorporated throughout the book. This is an ideal guide for radiation oncologists, residents, and fellows, but medical students may also find value in the text.