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Sports-Related Concussions in Youth Timber Press (OR)

Hawaii's Ferns and Fern Allies is the first comprehensive survey of Hawaii's ferns to be published in more than 100 years. The book covers endemic, indigenous, and naturalized ferns and fern allies (including rare and endangered taxa), providing dichotomous keys, basionyms and synonyms, technical descriptions and distributions, a glossary, and statistical information. The author addresses unresolved taxonomic problems and offers suggestions for future research. He includes information from Hawaiian folklore and mythology, describes uses of ferns by native Hawaiians, and updates Hawaiian common names. More than 100 line drawings illustrate all 222 species, varieties, and forms, and some hybrids. The volume is based on extensive fieldwork, studies of herbarium collections worldwide, and consultations with pteridologists, local ecologists, and collectors. It provides the much-needed scientific basis for a new, worldwide appreciation of Hawaiian ferns and fern allies and for major efforts to protect and conserve them. This well-researched and highly readable book will be enthusiastically received by amateur and professional naturalists, fern enthusiasts, and professional botanists.

The Bar Book Springer Science & Business Media
Guided by two experts, you can have the most useful and comprehensive advice on ferns for any region, with details on cultivation, identification, and landscaping.

Government Reports Announcements & Index Springer
Concise International Encyclopedia of Robotics Edited by Richard C. Dorf This condensed version of the highly successful 3-volume work is a tightly drawn compendium of existing robotic knowledge and practice, culled from over 300 leading authorities worldwide. The encyclopedia's top-down approach includes coverage of robots and their components, characteristics, design, application, as well as their social impact and economic value. The text also includes a look at robot vision, robots in Japan and Western Europe, as well as prognostications on the state of robotics in the year 2000 and beyond. Fully cross-referenced, this accessible, easy-to-use guide is suitable to the everyday needs of professionals and students alike. 1990 (0 471-51698-8) 1,190 pp. **Robot Analysis and Control** Haruhiko Asada and Jean-Jacques E. Slotine Developed out of the authors' coursework at MIT, here is a clear practical introduction to robotics, with a firm emphasis on the physical aspects of the science. Described in depth are the fundamental kinematic and dynamic analysis of manipulator arms, as well as the key techniques for trajectory control and compliant motion control. The comprehensive text is supported by a wealth of examples, most of which have been drawn from industrial practice or advanced

research topics. Problem sets at the end of the book complement the text's rigorously instructional tone. 1986 (0 471-83029-1) 266 pp. **Robot Wrist Actuators** Mark E. Rosheim Viewed through lucid diagrammatic and isometric drawings, photographs, and illustrations, the complex morphologies of robot wrists are made instantly tangible in this graphics oriented approach to the science. Also catalogued are a host of wrist actuator designs—progressing from the simple to the more sophisticated as well as a look at wrists of the past, now in use, and under development. The author provides his own successful wrist actuator techniques and methods and the culminating designs. This is a fascinating first look at robotics for the designer, engineer, and student interested in developing the skills requisite for innovation. 1989 (0 471-61595-1) 271 pp.

Electrolyzed Water in Food: Fundamentals and Applications Springer

This Open Access volume aims to methodologically improve our understanding of biodiversity by linking disciplines that incorporate remote sensing, and uniting data and perspectives in the fields of biology, landscape ecology, and geography. The book provides a framework for how biodiversity can be detected and evaluated—focusing particularly on plants—using proximal and remotely sensed hyperspectral data and other tools such as LiDAR. The volume, whose chapters bring together a large cross-section of the biodiversity community engaged in these methods, attempts to establish a common language across disciplines for understanding and implementing remote sensing of biodiversity across scales. The first part of the book offers a potential basis for remote detection of biodiversity. An overview of the nature of biodiversity is described, along with ways for determining traits of plant biodiversity through spectral analyses across spatial scales and linking spectral data to the tree of life. The second part details what can be detected spectrally and remotely. Specific instrumentation and technologies are described, as well as the technical challenges of detection and data synthesis, collection and processing. The third part discusses spatial resolution and integration across scales and ends with a vision for developing a global biodiversity monitoring system. Topics include spectral and functional variation across habitats and

biomes, biodiversity variables for global scale assessment, and the prospects and pitfalls in remote sensing of biodiversity at the global scale.

Commerce Business Daily MDPI

Concussions in Athletics: From Brain to Behavior is a timely and major contribution to the literature that comprehensively addresses the neuromechanisms, predispositions, and latest developments in the evaluation and management of concussive injuries. Also known as mild traumatic brain injury, concussion in athletics is a growing public health concern with increased attention focusing on treatment and management of this puzzling epidemic. Despite the increasing occurrence and prevalence of concussions in athletics, there is no universally accepted definition, or "gold standard," for its assessment. **Concussion in Athletics: From Brain to Behavior** provides a range of major findings that may shed important light on current controversy within the field. The book is organized in five parts: Evaluation of Concussion and Current Development; Biomechanical Mechanisms of Concussion and Helmets; Neural Substrates, Biomarkers and Brain Imaging of Concussion Research; Pediatric Sport-related Concussions; and Clinical Management and Rehabilitation of Concussions. An invaluable contribution to the literature, **Concussions in Athletics: From Brain to Behavior** is a state-of-the-art reference that will be of significant interest to a wide range of clinicians, researchers, administrators, and policy makers.

The Mountain Pine Beetle Univ of California Press

Tropical Nursery Manual, U.S. Department of Agriculture, Forest Service Agriculture Handbook 732, was first published in 2014. This handbook was written for anyone endeavoring to start and operate a nursery for native and traditional plants in the tropics. Because the tropics cover a vast area of the world, however, the scope of the handbook is geared toward readers in the U.S. affiliated tropics. Specifically, the U.S. affiliated tropics are a diverse area spanning two oceans and half the globe, including the nations of the Federated States of Micronesia, the Republic of Palau, and the Republic of the Marshall Islands, as well as the Territory of Guam, the Commonwealth of the Northern Mariana Islands, the Territory of American Samoa, the Commonwealth of Puerto Rico, the U.S. Virgin Islands, and the State of Hawai'i, southern California, Texas, and the southern part of Florida. Areas with similar conditions may also be served.

Innovative Pest Management Approaches for the 21st Century

Charles C Thomas Pub Limited

This essential new volume in the *Encyclopaedia of Sports Medicine* series, published under the auspices of the International Olympic Committee, provides a thorough overview of the unique physiologic characteristics, responsiveness to training, and possible health hazards involved in the training, coaching, and medical care of young athletes. Intense involvement in competitive sports often begins during childhood. During adolescence, many athletes reach their peak performance and some may participate in World Championships and Olympic Games at a relatively young age. **The Young Athlete** presents the available information relevant to exercise and training in youth, reviewed and summarized by authors who are recognized as leaders in their respective fields. **The Young Athlete** is subdivided into seven parts covering: the physiologic bases of physical performance in view of growth and development; trainability and the consequences of a high level of physical activity during childhood and adolescence for future health; the epidemiology of injuries, their prevention, treatment, and rehabilitation; non-orthopedic health concerns including the

pre-participation examination; psychosocial issues relevant to young athletes; diseases relevant to child and adolescent athletes; the methodology relevant to the assessment of young athletes. This valuable reference summarizes a large database of information from thousands of studies and is especially relevant to sports physicians, pediatricians, general practitioners, physical therapists, dietitians, coaches, students, and researchers in the exercise sciences.

Hawai'i's Ferns and Fern Allies University of Hawaii Press

The associations between insects and microorganisms, while pervasive and of paramount ecological importance, have been relatively poorly understood. The third book in this set, **Insect Symbiosis, Volume 3**, complements the previous volumes in exploring this somewhat uncharted territory. Like its predecessors, Volume 3 illustrates how symbiosis research has important ramifications for evolutionary biology, microbiology, parasitology, physiology, genetics, and animal behavior, and is especially relevant to the control of agricultural and disease-carrying pests worldwide. **Insect Symbiosis, Volume 3**, includes pioneering chapters on Paratransgenesis in termites, Bacterial symbionts in *Anopheles* spp. and other mosquito vectors, Endosymbionts of lice, and the Structure and function of the bacterial community associated with the Mediterranean fruit fly. These individual studies suggest practical applications in pest control involving novel, pesticide-free, biological control approaches. This new volume adds to the growing body of knowledge on the ubiquitous endosymbiont *Wolbachia*. This bacterial genus and its potential as a weapon against insect pests and vectors have been covered in the first two volumes of **Insect Symbiosis**. Volume 3 contains chapters on *Wolbachia* and *Anopheles* mosquitoes, Feminizing *Wolbachia* and the evolution of sex determination in isopods, and *Wolbachia*-induced sex reversal in Lepidoptera. The book examines symbiotic relationships in the context of how host organisms recognize their own cells as self and other cells or potentially parasitic or pathogenic organisms as nonself, allowing researchers to make predictions of compatible and incompatible interactions. Following in the tradition of the first two volumes, this book serves as a great reference on host-parasitic relationships for professionals from a broad range of disciplines.

Fern Growers Manual Springer Nature

Several Integrated Pest Management (IPM) approaches are available for managing pests of varied kinds, including individual and integrated methods for pest suppression. Recently the focus has shifted to pest management tools that act on insect systems selectively, are compatible with the environment, and are not harmful for ecosystems. Other approaches target specific biochemical and physiological aspects of insect metabolism, and involve biotechnological and genetic manipulation. Still other approaches include the use of nanotechnology, endophytes, optical and sonic manipulation to detect and control pest insects. Unfortunately, conventional forms of pest management do not focus on technology transfer to the ground level workers and farmers. As a result, farmers are incurring huge losses of crops and revenues. This book highlights the importance of using communication tools in pest management and demonstrates some success stories of utilizing automated unmanned technologies in this context. The content is divided into three sections, the first of which, "Pest Population Monitoring: Modern Tools," covers long and short-range pest population monitoring techniques and tools such as satellites, unmanned aerial vehicles/drones, remote sensing, digital tools like GIS, GPS for mapping, lidar, mobile apps, software systems, artificial diet designs and functional diversity of infochemicals. The second section of the book is devoted to "Emerging Areas in Pest Management" and offers a glimpse of diversified tactics that have been developed to contain and suppress pest populations such as endophytes, insect vectors of phytoplasma, Hymenoptera parasitoids, mass production and utilization of NPV etc. In turn, the third section focuses on "Integrated Pest Management" and presents farming situations that illustrate how research in diversified aspects has helped to find solutions to specific pest problems, and how some new and evolving tactics can be practically implemented. Given its scope, the book offers a valuable asset for entomology and plant pathology researchers, students of zoology and plant protection, and readers whose work involves agriculture, horticulture, forestry and

other ecosystems.

AB Bookman's Weekly CRC Press

Insect pests are becoming a problem of ever-more biblical proportions. This new textbook collates a series of selected papers that attempt to address various fundamental components of area-wide insect pest control. Of special interest are the numerous papers on pilot and operational programs that pay special attention to practical problems encountered during program implementation. It's a compilation of more than 60 papers authored by experts from more than 30 countries.

Concussions in Athletics Springer

In the past decade, few subjects at the intersection of medicine and sports have generated as much public interest as sports-related concussions - especially among youth. Despite growing awareness of sports-related concussions and campaigns to educate athletes, coaches, physicians, and parents of young athletes about concussion recognition and management, confusion and controversy persist in many areas. Currently, diagnosis is based primarily on the symptoms reported by the individual rather than on objective diagnostic markers, and there is little empirical evidence for the optimal degree and duration of physical rest needed to promote recovery or the best timing and approach for returning to full physical activity. *Sports-Related Concussions in Youth: Improving the Science, Changing the Culture* reviews the science of sports-related concussions in youth from elementary school through young adulthood, as well as in military personnel and their dependents. This report recommends actions that can be taken by a range of audiences - including research funding agencies, legislatures, state and school superintendents and athletic directors, military organizations, and equipment manufacturers, as well as youth who participate in sports and their parents - to improve what is known about concussions and to reduce their occurrence. *Sports-Related Concussions in Youth* finds that while some studies provide useful information, much remains unknown about the extent of concussions in youth; how to diagnose, manage, and prevent concussions; and the short- and long-term consequences of concussions as well as repetitive head impacts that do not result in concussion symptoms. The culture of sports negatively influences athletes' self-reporting of concussion symptoms and their adherence to return-to-play guidance. Athletes, their teammates, and, in some cases, coaches and parents may not fully appreciate the health threats posed by concussions. Similarly, military recruits are immersed in a culture that includes devotion to duty and service before self, and the critical nature of concussions may often go unheeded. According to *Sports-Related Concussions in Youth*, if the youth sports community can adopt the belief that concussions are serious injuries and emphasize care for players with concussions until they are fully recovered, then the culture in which these athletes perform and compete will become much safer. Improving understanding of the extent, causes, effects, and prevention of sports-related concussions is vitally important for the health and well-being of youth athletes. The findings and recommendations in this report set a direction for research to reach this goal.

Books in Print Penguin

Known for their ease of use, artful presentation of scientific information, and evidence-based approach, James Duke's comprehensive handbooks are the cornerstone in the library of almost every alternative and complementary medicine practitioner and ethnobotanist. Using the successful format of these bestselling handbooks, *Duke's Handbook of Medicinal Plants of the Bible* covers 150 herbs that scholars speculate, based on citations, were used in Biblical times.

The Fair Fight Springer Nature

Anyone with an interest in wire's rich past or the desire to explore this creative medium will find everything needed in this comprehensive guide to basic wire techniques and applications. Features more than

15 projects, including jewelry and home decor items.

The Young Athlete 1st Impression Publishing

This new edition presents an authoritative account of the current state of brain biomechanics research for engineers, scientists and medical professionals. Since the first edition in 2011, this topic has unquestionably entered into the mainstream of biomechanical research. The book brings together leading scientists in the diverse fields of anatomy, neuroimaging, image-guided neurosurgery, brain injury, solid and fluid mechanics, mathematical modelling and computer simulation to paint an inclusive picture of the rapidly evolving field. Covering topics from brain anatomy and imaging to sophisticated methods of modeling brain injury and neurosurgery (including the most recent applications of biomechanics to treat epilepsy), to the cutting edge methods in analyzing cerebrospinal fluid and blood flow, this book is the comprehensive reference in the field. Experienced researchers as well as students will find this book useful.

Cardiac Resynchronization Therapy Springer Nature

"This book impressively chronicles the burgeoning field of experimental evolutionary biology. Controlled field and lab experiments are among the newest pillars of evolution. Assembled by two of the most articulate and effective practitioners, this volume provides a stimulating and often inspiring introduction to experimental evolution; it is ideal for a graduate seminar and is certain to fuel rewarding discussion and innovative research."--Rick Grosberg, University of California, Davis "Although experimental evolution has been a major element in the biological toolkit for decades, many still think of evolutionary biology as a descriptive science. This timely, authoritative review of the broad sweep and deep insights of experimental evolution should permanently change that impression by firmly establishing an approach that has now grounded many evolutionary hypotheses in sound experimental logic. The authors, who include many who built the field, have written eloquently; the editors, themselves major practitioners of the method, have chosen wisely; this book, their product, now defines the field."--Steve Stearns, Yale University "Experiments provide a powerful complement to observational and comparative studies. For this reason, evolutionary biology is increasingly an experimental science, not only in the laboratory, but also in the field. This textbook provides an excellent introduction to the manner in which evolutionary experiments are conducted and the types of questions and organisms to which they are applied."--Jonathan B. Losos, Museum of Comparative Zoology and Department of Organismic and Evolutionary Biology, Harvard University

Facilities for Insect Research and Production Mutual Publishing Company

A detailed guide to the biology, cultivation, propagation, and landscaping uses of ferns, with a descriptive catalogue of nearly all available species and subspecies

Science and Technology of Fibers in Food Systems

Bentley Publishers

Cardiac resynchronization therapy (CRT) is one of the most exciting new advances in the treatment of chronic severe (NYHA symptom class) heart failure associated with dyssynchronous ventricular contraction that is refractory to medical treatment. In all randomized trials CR has resulted in improved NYHA symptom class, exercise capacity and quality

Fern Grower's Manual CRC Press

This book is a printed edition of the Special Issue *Causes and Consequences of Species Diversity in Forest Ecosystems* that was published in *Forests*

Biomechanics of the Brain Random House Incorporated

This text provides comprehensive coverage of fibers used in food formulations, starting with the understanding of their basic chemical structure and how they are present and organized in the cell wall structure, their physicochemical and functional properties, their impact on the digestive process and their role and preventive action against various chronic diseases including colon cancer. The book focuses on traditional and new fiber rich sources, incorporating an integrated approach in terms of the technological and engineering processes used to obtain and incorporate them in traditional foods, plus their characterization, extraction and modification. The study of processing conditions including the chemical, physical and enzymatic processes of fiber extraction and modification are also covered, including traditional and emerging processing technologies, plus the application of fibers in the development of new products and processes. Science and Technology of Fibers in Food Systems integrates knowledge of fibers from their basic structural and property aspects and the applications of these ingredients to extraction process analysis, modification and feasibility for use at the industry level. The chapters incorporate the physiological aspects related to the consumption of fiber for prevention of serious diseases.

Causes and Consequences of Species Diversity in Forest Ecosystems Krause Publications Incorporated

As remote sensing data and methods have become increasingly complex and varied - and increasingly reliable - so have their uses in forest management. New algorithms have been developed in virtually every aspect of image analysis, from classification to enhancements to estimating parameters. Remote Sensing for Sustainable Forest Management reviews t