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A Selective Bibliography in Science and Engineering-Northeastern University (Boston, Mass.). Library 1964

Dr. Underwood's Handbuch der Kinderkrankheiten-Benoni F. Underwood 1848

Cumulated Index Medicus- 1981

Nanotheranostics for Cancer Applications-Prakash Rai 2018-11-12 This book is the first to focus specifically on cancer nanotheranostics. Each of the chapters that make up this comprehensive volume is authored by a researcher, clinician, or regulatory agency member known for their expertise in this field. Theranostics, the technology to simultaneously diagnose and treat a disease, is a nascent field that is growing rapidly in this era of personalized medicine. As the need for cost-effective disease diagnosis grows, drug delivery systems that can act as multifunctional carriers for imaging contrast and therapy agents could provide unique breakthroughs in oncology. Nanotechnology has enabled the development of smart theranostic platforms that can concurrently diagnose disease, start primary treatment, monitor response and initiate secondary treatments if required. In oncology, chemotherapeutics have been routinely used. Some drugs have proven effective but all carry risks of adverse side effects. There is growing interest in using remotely triggered drug delivery systems to limit cytotoxicity in the diseased area. This book reviews the use of theranostic nanoparticles for cancer applications over the past decade. First, it briefly discusses the challenges and limitations of conventional cancer treatments, and presents an overview of the use of nanotechnology in treating cancer. These introductory chapters are followed by those exploring cancer diagnosis and a myriad of delivery methods for nanotherapeutics. The book also addresses multifunctional platforms, treatment monitoring, and regulatory considerations. As a whole, the book aims to briefly summarize the development and clinical potential of various nanotheranostics for cancer applications, and to delineate the challenges that must be overcome for successful clinical development and implementation of such cancer theranostics.

Organische Reagenzien "Merck" für die anorganische analyse-E. Merck 1952

Conservation Genetics in Mammals-Jorge Ortega 2020-01-24 This book focuses on the use of molecular tools to study small populations of rare and endangered mammals, and presents case studies that apply an evolutionary framework to address innovative questions in the emerging field of mammalian conservation genomics using a highly diverse set of novel molecular tools. Novel and more precise molecular technologies now allow experts in the field of mammology to interpret data in a more contextual and empirical fashion and to better describe the evolutionary and ecological processes that are responsible for the patterns they observe. The book also demonstrates how recent advances in genetic/genomic technologies have been applied to assess the impact of environmental/anthropogenic changes on the health of small populations of mammals. It examines a range of issues in the field of mammalian conservation genomics, such as the role that the genetic diversity of the immune system plays in disease protection and local adaptation; the use of noninvasive techniques and genomic banks as a resource for monitoring and restoring populations; the structuring of population by physical barriers; and genetic diversity. Further, by integrating research from a variety of areas - including population genetics, molecular ecology, systematics, and evolutionary and conservation biology - it enables readers to gain a deeper understanding of the conservation biology of mammals that are at increasing risk of extinction at local, regional and global scales. As such, it offers a unique resource for a broad readership interested in the conservation biology of mammals and conservation management strategies to better preserve biodiversity.

Microbiome and Cancer-Erle S. Robertson 2019-02-20 This book ventures into a new and exciting area of discovery that directly ties our current knowledge of cancer to the discovery of microorganisms associated with different types of cancers. Recent studies demonstrate that microorganisms are directly linked to the establishment of cancers and that they can also contribute to the initiation, as well as persistence of, the cancers. Microbiome and Cancer covers the current knowledge of microbiome and its association with human cancers. It provides important reading for novices, senior undergraduates in cancer and microbiology, graduate students, junior investigators, residents, fellows and established investigators in the fields of cancer and microbiology. We cover areas related to known, broad concepts in microbiology and how they can relate to the ongoing discoveries of the micro-environment and the changes in the metabolic and physiologic states in that micro-environment, which are important for the ongoing nurturing and survival of the poly-microbial content that dictates activities in that micro-environment. We cover the interactions of microorganisms associated with gastric carcinomas, which are important for driving this particular cancer. Additional areas include oral cancers, skin cancers, ovarian cancers, breast cancers, nasopharyngeal cancers, lung cancers, mesotheliomas, Hodgkin's and non-Hodgkin's lymphomas, glioblastoma multiforme, hepatocellular carcinomas, as well as the inflammatory response related to the infectious agents in cancers. This book covers the metabolic changes that occur because of infection and their support for development of cancers, chronic infection and development of therapeutic strategies for detection and control of the infection. The field of microbiome research has exploded over the last five years, and we are now understanding more and more about the context in which microorganisms can contribute to the onset of cancers in humans. The field of microbiome research has demonstrated that the human body has specific biomes for tissues and that changes in these biomes at the specific organ sites can result in disease. These changes can result in dramatic differences in metabolic shifts that, together with genetic mutations, will produce the perfect niche for establishment of the particular infection programmes in that organ site. We are just beginning to understand what those changes are and how they influence the disease state. Overall, we hope to bring together the varying degrees of fluctuations in the microbiome at the major organ sites and how these changes affect the normal cellular processes because of dysregulation, leading to proliferation of the associated tissues.

Skin Tissue Models-Alexandra P. Marques 2017-11-14 Skin Tissue Models provides a translational link for biomedical researchers on the interdisciplinary approaches to skin regeneration. As the skin is the largest organ in the body, engineered substitutes have critical medical application to patients with disease and injury - from burn wounds and surgical scars, to vitiligo, psoriasis and even plastic surgery. This volume offers readers preliminary description of the normal structure and function of mammalian skin, exposure to clinical problems and disease, coverage of potential therapeutic molecules and testing, skin substitutes, models as study platforms of skin biology and emerging technologies. The editors have created a table of contents which frames the relevance of skin tissue models for researchers as platforms to study skin biology and therapeutic approaches for different skin diseases, for clinicians as tissue substitutes, and for cosmetic and pharmaceutical industries as alternative test substrates that can replace animal models. Offers descriptions of the normal structure/function of mammalian skin, exposure to clinical problems, and more Presents coverage of skin diseases (cancer, genodermatoses, vitiligo and psoriasis) that extends to clinical requirements and skin diseases in vitro models Addresses legal requirements and ethical concerns in drugs and cosmetics in vitro testing Edited and authored by internationally renowned group of researchers, presenting the broadest coverage possible

Applications of Synchrotron Radiation in Low-Temperature Geochemistry and Environmental Science-Paul A. Fenter 2018-12-17 Volume 49 of Reviews in Mineralogy and Geochemistry reviews the state of the art of synchrotron radiation applications in low temperature geochemistry and environmental science, and offer speculations on future developments. The reader of this volume will acquire an appreciation of the theory and applications of synchrotron radiation in low temperature geochemistry and environmental science, as well as the significant advances that have been made in this area in the past two decades. It gives a fairly comprehensive overview of synchrotron radiation applications in low temperature geochemistry and environmental science, describes the ways that synchrotron radiation is generated, including a history of synchrotrons and a discussion of aspects of synchrotron radiation that are important to the experimentalist, describes specific synchrotron methods that are most useful for single-crystal surface and mineral-fluid interface studies as well as methods that can be used more generally for investigating complex polyphase fine-grained or amorphous materials, including soils, rocks, and organic matter.

L2 vocabulary acquisition, knowledge and use-Camilla Bardel

Advances in Fracture Research-S. R. Valluri 1986

Introduction to Marine Genomics-J. Mark Cock 2010-04-27 Marine biology has always played an important role in biological research, being at the origin of many key advances. To a certain extent, the influence of marine biology on the biological sciences was overshadowed over a period of several years by the remarkable advances that were made using powerful model organisms from terrestrial environments. This situation is now changing again, however, due primarily to spectacular developments in genomic methodologies that have significantly accelerated research in a broad spectrum of marine biology disciplines ranging from biodiversity to developmental biology to biotechnology. The data generated by marine genomics projects have had an impact on questions as diverse as understanding planetary geochemical cycles, the impact of climate change on marine fauna and flora, the functioning of marine ecosystems, the discovery of new organisms and novel biomolecules, and investigation of the evolution of animal developmental complexity. This book represents the first attempt to document how genomic technologies are revolutionising these diverse domains of marine biology. Each chapter of this book looks at how these technologies are being employed in a specific domain of marine research and provides a summary of the major results obtained to date. The book as a whole provides an overview of marine genomics as a discipline and represents an ideal starting point for exploring this rapidly developing domain.

Advances in Treatments for Aortic Valve and Root Diseases-Khalil Fattouch 2018-04-03 This book describes the different aspects of aortic valve and root diseases including comprehensive discussion of the state-of-the-art diagnostic imaging options, disease risk stratification, selection of candidates for valve repair or percutaneous intervention, and most recent therapeutic options. The growing prevalence of valvular heart disease represents a major challenge in terms of short- and long-term management and surveillance. Aortic valve diseases, including aortic stenosis and regurgitation, are among the most frequent of these, while the number of cases of aortic root disease is also on the rise. Aortic valve disease treatment options include valve surgery, valve repair, minimally invasive valve surgery, and percutaneous approaches and all are covered in this volume. Advances in Treatments for Aortic Valve and Root Diseases is a highly illustrated, case oriented reference aimed at cardiology fellows in training, while also helpful to surgeons, cardiologists, imagers, interventionalists, as well as other clinicians and students involved in the diagnosis and treatment of aortic valve and root diseases.

Chemisches Zentralblatt- 1958

Childhood Acute Lymphoblastic Leukemia-Ajay Vora 2017-04-21 This book provides a comprehensive and up-to-date review of all aspects of childhood Acute Lymphoblastic Leukemia, from basic biology to supportive care. It offers new insights into the genetic pre-disposition to the condition and discusses how response to early therapy and its basic biology are utilized to develop new prognostic stratification systems and target therapy. Readers will learn about current treatment and outcomes, such as immunotherapy and targeted therapy approaches. Supportive care and management of the condition in resource poor countries are also discussed in detail. This is an indispensable guide for research and laboratory scientists, pediatric hematologists as well as specialist nurses involved in the care of childhood leukemia.

Ecology Revisited-Astrid Schwarz 2011-03-18 As concerns about humankind's relationship with the environment move inexorably up the agenda, this volume tells the story of the history of the concept of ecology itself and adds much to the historical and philosophical debate over this multifaceted discipline. The text provides readers with an overview of the theoretical, institutional and historical formation of ecological knowledge. The varied local conditions of early ecology are considered in detail, while epistemological problems that lie on the borders of ecology, such as disunity and complexity, are discussed. The book traces the various phases of the history of the concept of ecology itself, from its 19th century origins and antecedents, through the emergence of the environmental movement in the later 20th century, to the future, and how ecology might be located in the environmental science framework of the 21st century. The study of 'ecological' phenomena has never been confined solely to the work of researchers who consider themselves ecologists. It is rather a field of knowledge in which a plurality of practices, concepts and theories are developed. Thus, there exist numerous disciplinary subdivisions and research programmes within the field, the boundaries of which remain blurred. As a consequence, the deliberation to adequately identify the ecological field of knowledge, its epistemic and institutional setting, is still going on. This will be of central importance not only in locating ecology in the frame of 21st century environmental sciences but also for a better understanding of how nature and culture are intertwined in debates about pressing problems, such as climate change, the protection of species diversity, or the management of renewable resources.

Mental Health Self-Help-Louis D. Brown 2010-08-05 Building on earlier patient-empowerment movements, consumer- and advocate-driven mental health self-help (MHSH) initiatives currently outnumber traditional mental health organizations. At the same time, this apparent success raises significant questions about their short-term efficacy and their value to lasting recovery. Mental Health Self-Help assembles the state of the evidence on the effectiveness of MHSH, beginning with the individual and larger social factors behind the expansion of consumer-directed services. Clearly organized and accessibly written, the book traces the development and evolution of MHSH as both alternative and adjunct to traditional mental health structures, offers research-based perspectives on the various forms of MHSH, and identifies potential areas for consumer initiatives to work with—and help improve—mental health systems. Contributors weigh strengths and limitations, raise research and methodology questions, and discuss funding and training issues to give readers a deeper understanding of the field and an informed look at its future impact on mental health treatment. Individual chapters cover the spectrum of contemporary self-help initiatives in mental health, including: • Online mutual aid groups. • Consumer-run drop-in centers. • Family and caregiver groups. • Certified peer support specialists. • Consumer advocacy initiatives. • Technical assistance organizations. • Professional/self-help collaborations. Mental Health Self-Help is a bedrock guide to an increasingly influential aspect of the mental health landscape. Researchers studying these initiatives from a variety of fields including community and clinical psychology, and public health—as well as clinicians, counselors, social workers, case managers, and policymakers—will find it an indispensable reference.

Handbuch der Kinderkrankheiten. Nach der 10. Ausg. in's Deutsche übertr. von H. W. Schulte. Bevorwortet und mit neuen Zusätzen von H. J. Behrend-Michael Underwood 1848

Reflexive Translation Studies-Silvia Kadiu 2019-04-08 In the past decades, translation studies have increasingly focused on the ethical dimension of translational activity, with an emphasis on reflexivity to assert the role of the researcher in highlighting issues of visibility, creativity and ethics. In Reflexive Translation Studies, Silvia Kadiu investigates the viability of theories that seek to empower translation by making visible its transformative dimension; for example, by championing the visibility of the translating subject, the translator's right to creativity, the supremacy of human translation or an autonomous study of translation. Inspired by Derrida's deconstructive thinking, Kadiu presents practical ways of challenging theories that argue reflexivity is the only way of developing an ethical translation. She questions the capacity of reflexivity to counteract the power relations at play in translation (between minor and dominant languages, for example) and problematises affirmative claims about (self-)knowledge by using translation itself as a process of critical reflection. In exploring the interaction between form and content, Reflexive Translation Studies promotes the need for an experimental, multi-sensory and intuitive practice, which invites students, scholars and practitioners alike to engage with theory productively and creatively through translation.

Fetal Growth-Frank Sharp 2012-12-06 This book is based on the 20th Study Group of the Royal College of Obstetricians and Gynaecologists, which concerned the important topic of fetal growth. Basic scientific, and both obstetric and paediatric aspects of the subject were addressed in contributions from many different disciplines, and we are greatly indebted to all the international experts who took part in this workshop at the RCOG in London in November 1988. The deliberations covered the broad topics of normal fetal growth, fetal over growth and undergrowth. Clinical implications of these entities, especially fetal undergrowth, played a large part in the proceedings as dictated by c.linical concerns. Definitions, epidemiology, aetiology and screening were covered, as were technological developments, with special reference to blood flow and volume flow measurements, both fetal and placental. Other aspects of clinical fetal monitoring, including fetal activity measurement, and biophysical evaluation were rationalised and placed in context, and the important newly emerging areas of cordocentesis and therapy in IUGR addressed. Finally, neonatal management of the SGA baby, mortality and long-term morbidity were considered.

Health Behavior-Karen Glanz 2015-07-01 The essential health behavior text, updated with the latest theories, research, and issues Health Behavior: Theory, Research and Practice provides a thorough introduction to understanding and changing health behavior, core tenets of the public health role. Covering theory, applications, and research,

this comprehensive book has become the gold standard of health behavior texts. This new fifth edition has been updated to reflect the most recent changes in the public health field with a focus on health behavior, including coverage of the intersection of health and community, culture, and communication, with detailed explanations of both established and emerging theories. Offering perspective applicable at the individual, interpersonal, group, and community levels, this essential guide provides the most complete coverage of the field to give public health students and practitioners an authoritative reference for both the theoretical and practical aspects of health behavior. A deep understanding of human behaviors is essential for effective public health and health care management. This guide provides the most complete, up-to-date information in the field, to give you a real-world understanding and the background knowledge to apply it successfully. Learn how e-health and social media factor into health communication. Explore the link between culture and health, and the importance of community. Get up to date on emerging theories of health behavior and their applications. Examine the push toward evidence-based interventions, and global applications. Written and edited by the leading health and social behavior theorists and researchers, Health Behavior: Theory, Research and Practice provides the information and real-world perspective that builds a solid understanding of how to analyze and improve health behaviors and health.

Handbook of Radioactivity Analysis-Michael F. L'Annunziata 2012-12-02 Handbook of Radioactivity Analysis is written by experts in the measurement of radioactivity. The book describes the broad scope of analytical methods available and instructs the reader on how to select the proper technique. It is intended as a practical manual for research which requires the accurate measurement of radioactivity at all levels, from the low levels encountered in the environment to the high levels measured in radioisotope research. This book contains sample preparation procedures, recommendations on steps to follow, necessary calculations, computer controlled analysis, and high sample throughput techniques. Each chapter includes practical techniques for application to nuclear safety, nuclear safeguards, environmental analysis, weapons disarmament, and assays required for research in biomedicine and agriculture. The fundamentals of radioactivity properties, radionuclide decay, and methods of detection are included to provide the basis for a thorough understanding of the analytical procedures described in the book. Therefore, the Handbook can also be used as a teaching text. Key Features * Includes sample preparation techniques for matrices such as soil, air, plant, water, animal tissue, and surface swipes * Provides procedures and guidelines for the analysis of commonly encountered na

Muscle Development of Livestock Animals-M. F. W. te Pas 2004-01-01 Number and size of muscle fibres in relation to meat production. Fibre type identification and functional characterization in adult livestock animals. Manipulation of muscle fibre number during prenatal development. The effect of growth and exercise on muscle characteristics in relation to meat quality. Nutrition, hormone receptor expression and gene interactions: implications for development and disease. The impact of minerals and micronutrients on growth control. Na⁺ K⁺-ATPase in skeletal muscle: significance of exercise and thyroid hormones for development and performance. local and systemic regulation of muscle growth. Proteolytic systems and the regulation of muscle remodelling and breakdown. The muscle regulatory factors gene family in relation to meat production. The muscle transcriptome. Genome analysis of QTL for muscle tissue development and meat quality. Functional genomics and proteomics in relation to muscle tissue. Role of myostatin in muscle growth. The callipyge mutation for sheep muscular hypertrophy genetics, physiology and meat quality. Genetic control of intramuscular fat accretion, Post-mortem muscle proteolysis and meat tenderness. Water-holding capacity of meat.

The Elite Young Athlete-Neil Armstrong 2011 A key resource for coaches, scientists and clinicians Sport is by its nature competitive and even during youth it is performed at different levels with elite young athletes at the top of the performance pyramid. A coordinated series of comprehensive, research-based reviews on factors underlying the performance of children and adolescents involved in competitive sport is presented in this volume. Leading exercise and sport scientists provide the latest information on the physiology of young elite athletes, the essential role of nutrition, and the effects of endurance, high-intensity and high-resistance training and overtraining as well as on the importance of laboratory and field-based monitoring of young athletes' performances. Further, thermoregulation and environmental factors that might affect performance are re-viewed. Finally, strategies for preventing sudden cardiac death and the diagnosis and management of common sport injuries in young athletes are discussed. The book provides up-to-date, evidence-based information for sports scientists, coaches, physiotherapists, pediatric sports medicine specialists, and other professionals involved in supporting elite young athletes.

The Library in the Life of the User-Lynn Silipigni Conaway 2015 This compilation provides a sequential overview of some of OCLC Research's user behavior research findings that articulate the need for the design of future library services to be all about the user.

Seed-Borne Diseases of Agricultural Crops: Detection, Diagnosis & Management-Ravindra Kumar 2020-05-18 The global population is increasing rapidly, and feeding the ever-increasing population poses a serious challenge for agriculturalists around the world. Seed is a basic and critical input in agriculture to ensure global food security. Roughly 90 percent of the crops grown all over the world are propagated by seed. However, seed can also harbour and spread pathogens, e.g. fungi, bacteria, nematodes, viruses etc., which cause devastating diseases. Seed-borne pathogens represent a major threat to crop establishment and yield. Hence, timely detection and diagnosis is a prerequisite for their effective management. The book "Seed-Borne Diseases of Agricultural Crops: Detection, Diagnosis & Management" addresses key issues related to seed-borne/transmitted diseases in various agricultural crops. Divided into 30 chapters, it offers a comprehensive compilation of papers concerning: the history of seed pathology, importance of seed-borne diseases, seed-borne diseases and quarantine, seed health testing and certification, detection and diagnosis of seed-borne diseases and their phytopathogens, host-parasite interactions during development of seed-borne diseases, diversity of seed-borne pathogens, seed-borne diseases in major agricultural crops, non-parasitic seed disorders, mechanisms of seed transmission and seed infection, storage fungi and mycotoxins, impact of seed-borne diseases on human and animal health, and management options for seed-borne diseases. We wish to thank all of the eminent researchers who contributed valuable chapters to our book, which will be immensely useful for students, researchers, academics, and all those involved in various agro-industries.

Recent Advances in Animal Virology-Yashpal Singh Malik 2019-11-14 This book discusses the prominence and implication of the viral diseases that are a major threat to animals around the globe. A number of these diseases have also shown links with human populations, which has implications for public health. This book offers detailed and up-to-date information on viral diseases in livestock and poultry that were and/or are still a problem. Including cutting-edge developments, it also highlights several landmark contributions in the field of virology from India. Additionally, the book features tables and figures showing important clinical data and recommendations, with references for further information. It also explores the economic impact of viral diseases for farmers and the livestock industry, providing several examples. Further, it presents the latest information on viral diseases in global context, with a focus on state-of-art, molecular tools for the development of diagnostics, prophylactics and therapeutics. Lastly, the book also describes the challenges posed by the emerging and transboundary viral infections and our preparedness to counter them.

Terrestrial Isopod Biology-A.M. Alikhan 2018-04-20 This text contains the papers of a meeting on American isopods, the only crustacean group with representatives in all terrestrial ecosystems ranging from the sea shore to the desert. Due to such adaptability, this group can be seen as a model for the successful transition on land. The text deals with two main subjects: the effects of stressful conditions on the individual animal as reflected by its survival or by the disruption of its normal reproductive pattern; and the distribution of the isopods and their selection of microhabitat.

Adaptive Environmental Management-Catherine Allan 2009-06-05 Adaptive management is the recommended means for continuing ecosystem management and use of natural resources, especially in the context of 'integrated natural resource management'. Conceptually, adaptive management is simply learning from past management actions to improve future planning and management. However, adaptive management has proved difficult to achieve in practice. With a view to facilitating better practice, this new book presents lessons learned from case studies, to provide managers with ready access to relevant information. Cases are drawn from a number of disciplinary fields, including management of protected areas, watersheds and farms, rivers, forests, biodiversity and pests. Examples from Australia, New Zealand, the USA, Canada, the UK and Europe are presented at a variety of scales, from individual farms, through regional projects, to state-wide planning. While the book is designed primarily for practitioners and policy advisors in the fields of environmental and natural resource management, it will also provide a valuable reference for students and researchers with interests in environmental, natural resource and conservation management.

Underground Excavations in Rock-E.T. Brown 1980-06-30 Underground Excavations in Rock deals with the geotechnical aspects of the design of underground openings for mining and civil engineering processes.

Vogel's Qualitative Inorganic Analysis, 7/e-G. Svehla 2008

Handbook of Anxiety and Fear-D. Caroline Blanchard 2011-09-02 This Handbook brings together and integrates comprehensively the core approaches to fear and anxiety. Its four sections: Animal models; neural systems; pharmacology; and clinical approaches, provide a range of perspectives that interact to produce new light on these important and sometimes dysfunctional emotions. Fear and anxiety are analyzed as patterns that have evolved on the basis of their adaptive functioning in response to threat. These patterns are stringently selected, providing a close fit with environmental situations and events; they are highly conservative across mammalian species, producing important similarities, along with some systematic differences, in their human expression in comparison to that of nonhuman mammals. These patterns are described, with attention to both adaptive and maladaptive components, and related to new understanding of neuroanatomic, neurotransmitter, and genetic mechanisms. Although chapters in the volume acknowledge important differences in views of fear and anxiety stemming from animal vs. human research, the emphasis of the volume is on a search for an integrated view that will facilitate the use of animal models of anxiety to predict drug response in people; on new technologies that will enable direct evaluation of biological mechanisms in anxiety disorders; and on strengthening the analysis of anxiety disorders as biological phenomena. • Integrates animal and human research on fear and anxiety • Presents emerging and developing fields of human anxiety research including imaging of anxiety disorders, the genetics of anxiety, the pharmacology of anxiolysis, recent developments in classification of anxiety disorders, linking these to animal work • Covers basic research on innate and conditioned responses to threat • Presents work from the major laboratories, on fear learning and extinction • Reviews research on an array of neurotransmitter and neuromodulator systems related to fear and anxiety • Compares models, and neural systems for learned versus unlearned responses to threat • Relates the findings to the study, diagnostics, and treatment of anxiety disorders, the major source of mental illness in modern society (26 % of Americans are affected by anxiety disorders!)

Ecological Connectivity among Tropical Coastal Ecosystems-Ivan Nagelkerken 2009-09-23 Mangrove forests, seagrass beds, and coral reefs are circumtropical ecosystems that are highly productive, and provide many important biological functions and economic services. These ecosystems cover large surface areas in the shallow tropical coastal seascape but have suffered from serious human degradation, especially in the last few decades. Part of their diversity, productivity, and functioning seems to be based on their juxtaposition. Especially in the last decade significant advances have been made on new insights into their ecological connectivity. This authoritative book provides a first-time comprehensive review of the major ecological interactions across tropical marine ecosystems that result from the mutual exchange of nutrients, organic matter, fish, and crustaceans. A group of leading authors from around the world reviews the patterns and underlying mechanisms of important biogeochemical and biological linkages among tropical coastal ecosystems in 15 chapters. Included are chapters that review cutting-edge tools to study and quantify these linkages, the importance of such linkages for fisheries, and how tropical ecosystems should be conserved and managed for sustainable use by future generations. The book uses examples from all over the world and provides an up-to-date review of the latest published literature. This book is a 'must read' for professionals working on the conservation, management, and ecology of mangrove, seagrass and coral reef ecosystems.

Vogel's Textbook Of Quantitative Chemical Analysis-Mendham 2006-02

Technological Innovations in Major World Oil Crops, Volume 1-S.K. Gupta 2011-10-27 Major world oil crops and their products are among the most valuable commodity in today's world trade. Over the past couple of decades, oilseed production has increased to become the most important world sources of vegetable oils, in response to the rising world population and living standard. Recent technological advances made in breeding major world oil crops have led to higher production and improved product quality. This comprehensive volume encompasses recent innovations and practice in the production and use of different oil crops, including Brassica, Sunflower, Safflower, Cottonseed, Castor, Olive, Coconut, Oilpalm, Sesame, Groundnut, and Soybean. The contributors are leading specialists from different countries of the world. Much of the literature available on these crops is not up-to-date; hence this volume is a ready reference for researchers, breeders, biotechnologists, industrialists, and nutritionists. Dr. Surinder Kumpar Gupta, born in 1959, is currently working as Professor/Chief Scientist (Oilseeds) Plant Breeding & Genetics and Nodal officer in the School of Biotechnology, S K University of Agricultural Sciences & Technology. He holds a brilliant academic and service record and has been devoted to research on Oilseed Brassicas for nearly two decades. He obtained his post-graduate degree and PhD from Punjab Agricultural University. He is a recipient of a post-doctoral Fellowship in Plant Biotechnology and has published more than 100 research papers in esteemed national and international journals, mostly on Brassicas. He has already developed five varieties of rapeseed-mustard, and has written two books and edited three volumes on rapeseed & mustard breeding. For his excellent scientific endeavors, he has been conferred the 'Young Scientists Award: 1993-1994' by the State Department of Science & Technology.

Meditation practices for health state of the research- 2009

Masters Theses in the Pure and Applied Sciences- 1992

Sustainable Heavy Metal Remediation-Eldon R. Rene 2017-08-22 This book covers the principles, underlying mechanisms, thermodynamic functions, kinetics and modeling aspects of sustainable technologies, particularly from the standpoint of applying physical, chemical and biological processes for the treatment of wastewater polluted with heavy metals. Particular emphasis has been given to technologies that are based on adsorption, electro-coagulation, bio-precipitation, bio-solubilization, phytoremediation and microbial electrolysis. Metal contamination in the environment is one of the persisting global issues. The adverse health effects of heavy metals on human beings and its impact on the environment has been well-documented. Several physico-chemical and biological technologies have been successfully implemented to prevent and control the discharge of industrial heavy metal emissions. On the contrary, metal resource depletion has also accelerated dramatically during the 20th century due to rapid advances in industrial engineering and medical sciences, which requires large amount of raw materials. To meet the global metal demand, in recent years, novel research lines have started to focus on the recovery of metals from metal contaminated waste streams. In order to conflate both metal removal and recovery, new technologies have been successfully tested, both at the lab and pilot-scale. The target audience of this book primarily comprises of research experts, practicing engineers in the field of environmental/chemical technology and graduate students.

X-Ray Microscopy-Chris Jacobsen 2019-12-19 A complete introduction to x-ray microscopy, covering optics, 3D and chemical imaging, lensless imaging, radiation damage, and applications.

Oceanography and Marine Biology-R. N. Gibson 2010-05-12 Description

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