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Contaminants in Drinking and Wastewater Sources Springer

This comprehensive, interdisciplinary handbook reviews the latest methods and technologies used in automated essay evaluation (AEE) methods and technologies. Highlights include the latest in the evaluation of performance-based writing assessments and recent advances in the teaching of writing, language testing, cognitive psychology, and computational linguistics. This greatly

expanded follow-up to Automated Essay Scoring reflects the numerous advances that have taken place in the field since 2003 including automated essay scoring and diagnostic feedback. Each chapter features a common structure including an introduction and a conclusion. Ideas for diagnostic and evaluative feedback are sprinkled throughout the book. Highlights of the book 's coverage include: The latest research on automated essay evaluation. Descriptions of the major scoring engines including the E-rater®, the Intelligent Essay Assessor, the Intellimetric™ Engine, c-rater™, and LightSIDE. Applications of the uses of the technology including a large scale system used in West Virginia. A systematic framework for evaluating research and technological results. Descriptions of AEE methods that can be replicated for languages other than English as seen in the example from China. Chapters from key researchers in the field. The book opens with

an introduction to AEEs and a review of the "best practices" of teaching writing along with tips on the use of automated analysis in the classroom. Next the book highlights the capabilities and applications of several scoring engines including the E-rater®, the Intelligent Essay Assessor, the Intellimetric™ engine, c-rater™, and LightSIDE. Here readers will find an actual application of the use of an AEE in West Virginia, psychometric issues related to AEEs such as validity, reliability, and scaling, and the use of automated scoring to detect reader drift, grammatical errors, discourse coherence quality, and the impact of human rating on AEEs. A review of the cognitive foundations underlying methods used in AEE is also provided. The book concludes with a comparison of the various AEE systems and speculation about the future of the field in light of current educational policy. Ideal for educators, professionals, curriculum specialists, and administrators responsible for developing writing programs or distance learning curricula, those who teach using AEE technologies, policy makers, and researchers in education, writing, psychometrics, cognitive psychology, and computational linguistics, this book also serves as a reference for graduate courses on automated essay evaluation taught in education, computer science, language, linguistics, and cognitive psychology.

Handbook of Vegetables and Vegetable Processing John Wiley & Sons

Research for the development of more efficient photocatalysts has experienced an almost exponential growth since its popularization in early 1970's. Despite the advantages of the widely used TiO₂, the yield of the conversion of sun power into chemical energy that can be

achieved with this material is limited prompting the research and development of a number of structural, morphological and chemical modifications of TiO₂, as well as a number of novel photocatalysts with very different composition. Design of Advanced Photocatalytic Materials for Energy and Environmental Applications provides a systematic account of the current understanding of the relationships between the physicochemical properties of the catalysts and photoactivity. The already long list of photocatalysts phases and their modifications is increasing day by day. By approaching this field from a material sciences angle, an integrated view allows readers to consider the diversity of photocatalysts globally and in connection with other technologies. Design of Advanced Photocatalytic Materials for Energy and Environmental Applications provides a valuable road-map, outlining the common principles lying behind the diversity of materials, but also delimiting the imprecise border between the contrasted results and the most speculative studies. This broad approach makes it ideal for specialist but also for engineers, researchers and students in related fields.

Marine Litter John Wiley & Sons

Increasing use of ketamine as a recreational drug in Asia, Europe, and America is a great burden on society at large, leading to aspirational strain, unemployment, and crime. These societal effects have led to growing interest among researchers and clinicians in ketamine's effects on various systems of the body. Ketamine: Use and Abuse reviews the

Ketamine Multilingual Matters

Alternative water sources are expected to play a significant role in areas suffering water shortages. In many places waste water reuse is becoming a valuable component of sustainable water management practises. Substantial and practical information is needed to safely design, implement and operate waste water reuse schemes. The project AQUAREC Integrated concepts for reuse of upgraded wastewater was funded by the Fifth Framework Programme of the European Commission. Its major aim was to investigate and develop concepts and methodologies supporting rational and knowledge-based waste water reuse strategies. This publication presents practical information on waste water reuse concepts based on actual and proved management and operational practises. A broad approach has been considered by addressing institutional, organisational, legal, economics, financial, social and environmental issues together with technological aspects.

Proteases: Structure and Function Routledge

The fifth in a series of reviews, centered on a single major topic (vol. 1 Bone Formation, vol. 2 Bone Resorption, vol. 3 Engineering of Functional Skeletal Tissues, vol. 4 Osteoarthritis) written by acknowledged authorities in the field, and aimed at researchers, clinicians and others involved in the bone field.

Creep-Resistant Steels Springer Science & Business Media

The field of sensory science has grown exponentially since the publication of the previous version of this work. Fifteen years ago the journal Food Quality and Preference was fairly new. Now it holds an eminent position as a venue for research on sensory test methods (among many other topics). Hundreds of articles relevant to sensory testing have appeared in that and in other journals such as the Journal of Sensory Studies. Knowledge of the intricate cellular processes in chemoreception, as well as their genetic basis, has undergone nothing less than a

revolution, culminating in the award of the Nobel Prize to Buck and Axel in 2004 for their discovery of the olfactory receptor gene super family. Advances in statistical methodology have accelerated as well. Sensometrics meetings are now vigorous and well-attended annual events. Ideas like Thurstonian modeling were not widely embraced 15 years ago, but now seem to be part of the everyday thought process of many sensory scientists. And yet, some things stay the same. Sensory testing will always involve human participants. Humans are tough measuring instruments to work with. They come with varying degrees of acumen, training, experiences, differing genetic equipment, sensory capabilities, and of course, different preferences. Human foibles and their associated error variance will continue to place a limitation on sensory tests and actionable results. Reducing, controlling, partitioning, and explaining error variance are all at the heart of good test methods and practices.

Nondestructive Evaluation of Food Quality Springer Science & Business Media

Proteolysis is an irreversible posttranslational modification affecting each and every protein from its biosynthesis to its degradation. Limited proteolysis regulates targeting and activity throughout the lifetime of proteins. Balancing proteolysis is therefore crucial for physiological homeostasis. Control mechanisms include proteolytic maturation of zymogens resulting in active proteases and the shut down of proteolysis by counteracting endogenous protease inhibitors. Beyond the protein level, proteolytic enzymes are involved in key decisions during development that determine life and death – from single cells to adult individuals. In particular, we are becoming aware of the subtle role that proteases play in signaling events within

proteolysis networks, in which the enzymes act synergistically and form alliances in a web-like fashion. Proteases come in different flavors. At least five families of mechanistically distinct enzymes and even more inhibitor families are known to date, many family members are still to be studied in detail. We have learned a lot about the diversity of the about 600 proteases in the human genome and begin to understand their physiological roles in the degradome. However, there are still many open questions regarding their actions in pathophysiology. It is in this area where the development of small molecule inhibitors as therapeutic agents is extremely promising. Approaching proteolysis as the most important, irreversible post-translational protein modification essentially requires an integrated effort of complementary research disciplines. In fact, proteolytic enzymes seem as diverse as the scientists working with these intriguing proteins. This book reflects the efforts of many in this exciting field of research where team and network formations are essential to move ahead.

Design of Advanced Photocatalytic Materials for Energy and Environmental Applications American Univ in Cairo Press

Marine litter is an ecological, economic, health and aesthetic problem. It is a complex and multi-dimensional challenge with significant implications for the marine and coastal environment, and human activities all over the world. The persistence of marine litter is the result of a lack of coordinated global and regional strategies, and deficiencies in the implementation and enforcement of existing programmes, regulations and standards at all levels - international, regional and national. The UNEP Global

Initiative on Marine Litter provides a platform for the management of marine litter through the establishment of partnerships, cooperative arrangements and coordination of joint activities. It has succeeded in organizing and implementing regional activities on marine litter around the world. In addition to activities in 12 Regional Seas, UNEP commissioned preparation of several documents on specific topics, including UNEP/IOC Guidelines for monitoring of marine litter; Abandoned and lost fishing gear; and Marine litter and market-based instruments. This report provides an overview of the status of marine litter in UNEP's assisted Regional Seas, and highlights the amounts, main sources, impacts, and economics of marine litter, and discusses legislation, policies, compliance and enforcement mechanisms; institutional frameworks and stakeholder involvement; education and outreach strategies; monitoring programmes and research; mitigation activities among other aspects. It concludes that there is an urgent need to approach the issue of marine litter through better enforcement of laws and regulations, expanded outreach and educational campaigns and the employment of strong economic instruments and incentives. It proposes some general recommendations, based on the materials presented in the document, and specific recommendations for fourteen different issues regarding marine litter.

Handbook of Gas Sensor Materials ISSN

This book brings together leading investigators who represent various aspects of brain dynamics with the goal of

presenting state-of-the-art current progress and address future developments. The individual chapters cover several fascinating facets of contemporary neuroscience from elementary computation of neurons, mesoscopic network oscillations, internally generated assembly sequences in the service of cognition, large-scale neuronal interactions within and across systems, the impact of sleep on cognition, memory, motor-sensory integration, spatial navigation, large-scale computation and consciousness. Each of these topics require appropriate levels of analyses with sufficiently high temporal and spatial resolution of neuronal activity in both local and global networks, supplemented by models and theories to explain how different levels of brain dynamics interact with each other and how the failure of such interactions results in neurologic and mental disease. While such complex questions cannot be answered exhaustively by a dozen or so chapters, this volume offers a nice synthesis of current thinking and work-in-progress on micro-, meso- and macro- dynamics of the brain.

Herbalism, Phytochemistry and Ethnopharmacology Springer Science & Business Media

The two volumes of Handbook of Gas Sensor Materials provide a detailed and comprehensive account of materials for gas sensors, including the properties and relative advantages of various materials. Since these sensors can be applied for the automation of myriad industrial processes, as well as for everyday monitoring of such activities as public safety, engine performance, medical therapeutics, and in many other situations, this handbook is of great value. Gas sensor designers will find a treasure trove of material in these two

books.

Teach Yourself VISUALLY Google Workspace Springer Science & Business Media

Creep-resistant steels are widely used in the petroleum, chemical and power generation industries. Creep-resistant steels must be reliable over very long periods of time at high temperatures and in severe environments. Understanding and improving long-term creep strength is essential for safe operation of plant and equipment. This book provides an authoritative summary of key research in this important area. The first part of the book describes the specifications and manufacture of creep-resistant steels. Part two covers the behaviour of creep-resistant steels and methods for strengthening them. The final group of chapters analyses applications in such areas as turbines and nuclear reactors. With its distinguished editors and international team of contributors, Creep-resistant steels is a valuable reference for the power generation, petrochemical and other industries which use high strength steels at elevated temperatures. - Describes the specifications and manufacture of creep-resistant steels - Strengthening methods are discussed in detail - Different applications are analysed including turbines and nuclear reactors

Solar Energy Springer Nature

Technological Developments in Education and Automation includes set of rigorously reviewed world-class manuscripts dealing with the increasing role of technology in daily lives including education and industrial automation Technological Developments in Education and Automation contains papers presented at the International Conference on Industrial

Electronics, Technology & Automation and the International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering

Bone and Cancer Voyage Press

Plant diseases worldwide are responsible for billions of dollarsworth of crop losses every year. With less agrochemicals being used and less new fungicides coming on the market due to environmental concerns, more effort is now being put into the use of genetic potential of plants for pathogen resistance and the development of induced or acquired resistance as an environmentally safe means of disease control. This comprehensive book examines in depth the development and exploitation of induced resistance. Chapters review current knowledge of the agents that can elicit induced resistance, genomics, signalling cascades, mechanisms of defence to pests and pathogens and molecular tools. Further chapters consider the topical application of inducers for disease control, microbial induction of pathogen resistance, transgenic approaches, pathogen population biology, trade offs associated with induced resistance and integration of induced resistance in crop protection. The book concludes with a consideration of socio-economic drivers determining the use of induced resistance, and the future of induced resistance in crop protection.

Abiotic Stress Response in Plants United Nations Environment

Programme

Reducing and managing humanity's demand for energy is a fundamental part of the effort to mitigate climate change. In this, the most comprehensive textbook ever written on the subject, L.D. Danny Harvey lays out the theory and practice of how things must change if we are to meet our energy needs sustainably. The book begins with a succinct summary of the scientific basis for concern over global warming, then outlines energy basics and current patterns and trends in energy use. This is followed by a discussion of current and advanced technologies for the generation of electricity from fossil fuels. The book then considers in detail how energy is used, and how this use can be dramatically reduced, in the following end-use sectors: - buildings - transportation - industry - food and agriculture - municipal services The findings from these sector-by-sector assessments are then applied to generate scenarios of how global energy demand could evolve over the coming decades with full implementation of the identified and economically-feasible energy-saving potential. The book ends with a brief discussion of policies that can be used to reduce energy demand, but also addresses the limits of technologically-based improvements in efficiency in moderating demand and of the need to re-think some of our underlying assumptions concerning energy. The book ends with a brief discussion of what we really need. Along with its companion volume on C-free energy supply, and accompanied by extensive supplementary online material, this is an essential resource for students and practitioners in engineering, architecture, environment and energy related fields. Online material includes: Excel-based computational exercises, teaching slides for each chapter, links to free software tools.

Bee Products Springer Science & Business Media

Master the ins and outs of Google's free-to-use office and productivity software Teach Yourself VISUALLY Google Workspace delivers the ultimate guide to getting the most

out of Google's Workspace cloud software. Accomplished author Guy Hart-Davis offers readers the ability to tackle a huge number of everyday productivity problems with Google's intuitive collection of online tools. With over 700 full-color screenshots included to help you learn, you'll discover how to: Manage your online Google Calendar Master the files and folders in your Google Drive storage Customize your folders and navigate your Gmail account Create perfect spreadsheets, presentations, and documents in Google Sheets, Slides, and Docs Perfect for anyone who hopes to make sense of Google's highly practical and free online suite of tools, Teach Yourself VISUALLY Google Workspace also belongs on the bookshelves of those who already find themselves using Workspace and just want to get more out of it.

Water Reuse System Management Manual Springer Science & Business Media

The World Bank's research program has four basic objectives: to broaden the understanding of development, to assist in developing research capacity in the Bank's member countries, to improve its capacity to advise its members, and to support all aspects of its own operations. Whether these aims are achieved depends in part on how extensively Bank research is used internally and externally. In early 2004, surveys were commissioned to assess the use of publications including Bank-wide research (annual flagship publications, Policy Research Reports, Policy Research Working Papers, and the two research journals)

by Bank staff and by the Bank's clients. The findings lead to four main conclusions: clients use Bank research publications frequently, Bank research publications are influential, translations are important, and for external clients the Internet is an important source of information. The World Bank Research Program reports on research projects that were initiated, under way, or completed from July 2001 through June 2003 and, for the first time, it includes summaries of large research programs. These multiyear programs undertake analysis on several broad development related issues with the aim of providing strategic directions on critical problems facing Bank clients and operations. Each program centers on a theme giving coherence to the research and its outputs. This title addresses thematic programs such as investment climate, rural development, finance and trade.

Clinical Neuroanatomy BoD – Books on Demand
Bridging the gap between the ancient art of herbalism and the emerging sciences of ethnopharmacology and phytopharmacotherapy, this book highlights the major breakthroughs in the history of the field and focuses on future directions in the discovery and application of herb-derived medicines. Implementing the concept of reverse pharmacology, it introduces
Prevention and Treatment of Age-related Diseases Springer
This book, addressed to experienced and novice language educators, provides an up-to-date overview of sociolinguistics, reflecting changes in the global situation and the continuing

evolution of the field and its relevance to language education around the world. Topics covered include nationalism and popular culture, style and identity, creole languages, critical language awareness, gender and ethnicity, multimodal literacies, classroom discourse, and ideologies and power. Whether considering the role of English as an international language or innovative initiatives in Indigenous language revitalization, in every context of the world sociolinguistic perspectives highlight the fluid and flexible use of language in communities and classrooms, and the importance of teacher practices that open up spaces of awareness and acceptance of --and access to--the widest possible communicative repertoire for students.

Energy and the New Reality 1 Elsevier

Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-

depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.

Handbook of Automated Essay Evaluation CRC Press
Connections define the functions of neurons: information flows along connections, as well as growth factors and viruses, and even neuronal death can progress through connections. Accordingly, knowing how the various parts of the brain are interconnected to form functional systems is a prerequisite for properly understanding data from all fields in the neurosciences. Clinical Neuroanatomy: Brain Circuitry and Its Disorders bridges the gap between neuroanatomy and clinical neurology. It focuses on human and primate data in the context of brain circuitry disorders, which are so common in neurological practice. In addition, numerous clinical cases are presented to demonstrate how normal

brain circuitry can be interrupted, and what the effects are. Following an introduction to the organization and vascularization of the human brain and the techniques used to study brain circuitry, the main neurofunctional systems are discussed, including the somatosensory, auditory, visual, motor, autonomic and limbic systems, the cerebral cortex and complex cerebral functions. In this 2nd edition, apart from a general updating, many new illustrations have been added and more emphasis is placed on modern techniques such as diffusion magnetic resonance imaging (dMRI) and network analysis. Moreover, a developmental ontology based on the prosomeric model is applied, resulting in a more modern subdivision of the brain. The new edition of Clinical Neuroanatomy is primarily intended for neurologists, neuroradiologists and neuropathologists, as well as residents in these fields, but will also appeal to (neuro)anatomists and all those whose work involves human brain mapping.