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Modal Analysis Zhi-Fang Fu 2001-09-04 Modal Analysis provides a detailed overview of the theory of analytical and experimental modal analysis and its applications. Modal Analysis is the processes of determining the inherent dynamic characteristics of any system and using them to formulate a mathematical model of the dynamic behavior of the system. In the past two decades it has become a major technological tool in the quest for determining, improving and optimizing dynamic characteristics of engineering structures. Its main application is in mechanical and aeronautical engineering, but it is also gaining widespread use in civil and structural engineering, biomechanical problems, space structures, acoustic instruments and nuclear engineering. The only book to focus on the theory of modal analysis before discussing applications A relatively new technique being utilized more and more in recent years which is now filtering through to undergraduate courses Leading expert in the field

Cluster Analysis for Corpus Linguistics Hermann Moisl 2015-02-24 The standard scientific methodology in linguistics is empirical testing of falsifiable hypotheses. As such the process of hypothesis generation is central, and involves formulation of a research question about a domain of interest and statement of a hypothesis relative to it. In corpus linguistics the domain is text, and generation involves abstraction of data from text, data analysis, and formulation of a hypothesis based on inference from the results. Traditionally this process has been paper-based, but the advent of electronic text has increasingly rendered it obsolete both because the size of digital corpora is now at or beyond the limit of what can efficiently be used in the traditional way, and because the complexity of data abstracted from them can be impenetrable to understanding. Linguists are increasingly turning to mathematical and statistical computational methods for help, and cluster analysis is such a method. It is used across the sciences for hypothesis generation by identification of structure in data which are too large or complex, or both, to be interpretable by direct inspection. This book aims to show how cluster analysis can be used for hypothesis generation in corpus linguistics, thereby contributing to a quantitative empirical methodology for the discipline.

Kingdom of Twilight Steven Uhly 2018-08-07 A "powerful and original" (The Times) historical saga that follows the quest for identity, redemption and home in the wake of World War II. One night in autumn 1944, a gunshot echoes through the alleyways of a small town in occupied Poland. An SS officer is shot dead by a young Polish Jew, Margarita Ejenstein. In retaliation, his commander orders the execution of thirty-seven Poles—one for every year of the dead man’s life. First hidden by a sympathetic German couple, Margarita must then flee the brutal advance of the Soviet army with her newborn baby. So begins a thrilling panorama of intermingled destinies and events that reverberate from that single act of defiance. Kingdom of Twilight follows the lives of Jewish refugees and a German family resettled from Bukovina, as well as a former SS officer, chronicling the geographical and psychological dislocation generated by war. A quest for identity and truth takes them from refugee camps to Lübeck, Berlin, Tel Aviv, and New York, as they try to make sense of a changed world, and of their place in it. Hypnotically lyrical and intensely moving, Steven Uhly’s epic novel is a finely nuanced yet shattering exploration of universal themes: love, hatred, doubt, survival, guilt, humanity, and redemption.

Apex Legends: Pathfinder's Quest (Lore Book) Respawn Entertainment 2021-02-02 Explore the world of the hit game through the eyes of the lovable robot, Pathfinder, as he chronicles his journey throughout the various environs of the Outlands to interview his fellow Legends -- all in the hope of finally locating his mysterious creator. The rich history of Apex Legends is explained by the characters that helped to shape it, as are their unique bonds of competition and camaraderie.

Psychology and Pathophysiological Outcomes of Eating Akikazu Takada 2021 The psychology of eating is regulated by neural mechanisms. When not well controlled, eating may result in disorders and health hazards such as obesity, type 2 diabetes mellitus, and vascular diseases. Lifestyles and cultures influence eating habits, thus there are differences in the prevalence of health problems depending upon living environments. This book examines the psychology and the pathophysiological outcomes of eating. Chapters address such topics as the influence of lifestyle, circadian rhythm, sleep, and fragrant odors on appetite and weight regulation; the impact of glucose, sucrose, lactate, and ketone bodies on the brain; the consequences of glycation stress on the skeletal muscle; and much more.

Handbook of Schizophrenia Spectrum Disorders, Volume I Michael S Ritsner 2011-04-06 A few disorders have some of the same symptoms as schizophrenia including schizoaffective disorders, schizophreniform disorder, schizotypal and schizoid personality disorders, delusional disorder, and autism (schizophrenia spectrum disorders). Since the 2000 there has been significant progress in our understanding of the early presentations, assessment, suspected neuropathology, and treatment of these disorders. Recent technological breakthroughs in basic sciences hold promise for advancing our understanding of the pathophysiology of schizophrenia spectrum disorders. This collective monograph reviews recent researches regarding the origins, onset, course, and outcome of schizophrenia spectrum disorders. In particular, this book will be illustrate new developments in terms of conceptual models, and research methodology, genetics and genomics, brain imaging and neurochemical studies, neurophysiology and information processing in schizophrenia spectrum disorders patients. Also will be highlighted new developments in our understanding of the childhood psychosis, prodromal and first-episode states, in treatment and rehabilitation. Thus, the purpose of this book is to provide up-to-date overview of the rapid advances made in the clinical and basic science studies supporting our understanding of the relationship between cerebral processes and clinical, cognitive and other presentations of the schizophrenia spectrum disorders. In addition, this book aims to monitor important research developments, which may be relevant to treatment, and rehabilitation of patients.

Animal-Origin Viral Zoonoses Yashpal Singh Malik 2020-09-23 This book is the second volume in the series Livestock Diseases and Management, and reviews the importance and implications of animal origin viral zoonoses. It also highlights the specific etiology and epidemiology of these viral infections and discusses their various biological and mechanical transmission mechanisms. Further, the book reviews various measures for controlling viral zoonoses and examines novel therapeutic and prophylactic strategies. Discussing recent studies on the pathogenesis and host immune response to these infections, it underscores the importance of using vaccines against these viral diseases to reduce the risk of them being transmitted to humans.Lastly, it describes in detail the challenges posed by these viral infections and our readiness to face them.

Membrane and Desalination Technologies Lawrence K. Wang 2010-12-01 In this essential new volume, Volume 13: Membrane and Desalination Technologies, a panel of expert researchers provide a wealth of information on membrane and desalination technologies. An advanced chemical and environmental engineering textbook as well as a comprehensive reference book, this volume is of high value to advanced graduate and undergraduate students, researchers, scientists, and designers of water and wastewater treatment systems. This is an essential part of the Handbook of Environmental Engineering series, an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms: gas, solid, and liquid. Chapters adopt the series format, employing methods of practical design and calculation illustrated by numerical examples, including pertinent cost data whenever possible, and exploring in great detail the fundamental principles of the field. Volume 13: Membrane and Desalination Technologies is an essential guide for researchers, highlighting the latest developments in principles of membrane technology, membrane systems planning and design, industrial and municipal waste treatments, desalination requirements, wastewater reclamation, biofiltration, and more.

Symmetry in Mechanical Engineering Adam Glowacz 2020-06-03 Recent advancements in mechanical engineering are an essential topic for discussion. The topics relating to mechanical engineering include the following: measurements of signals of shafts, springs, belts, bearings, gears, rotors, machine elements, vibration analysis, acoustic analysis, fault diagnosis, construction, analysis of machine operation, analysis of smart-material systems, integrated systems, stresses, analysis of deformations, analysis of mechanical properties, signal processing of mechanical systems, and rotor dynamics. Mechanical engineering deals with solid and fluid mechanics, rotation, movements, materials, and thermodynamics. This book, with 15 published articles, presents the topic “Symmetry in Mechanical Engineering”. The presented topic is interesting. It is categorized into eight different sections: Deformation; Stresses; Mechanical properties; Tribology; Thermodynamic; Measurement; Fault diagnosis; Machine. The development of techniques and methods related to mechanical engineering is growing every month. The described articles have made a contribution to mechanical engineering. The proposed research can find applications in factories, oil refineries, and mines. It is essential to develop new improved methods, techniques, and devices related to mechanical engineering.

Critical Mineral Resources of the United States K. J. Schulz 2017 As the importance and dependence of specific mineral commodities increase, so does concern about their supply. The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities. Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security. However, a mineral commodity’s importance and the nature of its supply chain can change with time; a mineral commodity that may not have been considered critical 25 years ago may be critical today, and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity’s use; (2) the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity’s production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on global mineral commodity supply chains. This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities.

Motor Gasolines 1974

Biology of Hevea Rubber P. M. Priyadarshan 2011 Rubber is an economically important material that occurs naturally and can be produced synthetically. Many advances have been made in the understanding of the cultivation and biology of the rubber tree, *Hevea brasiliensis*, and this book covers the essential elements of rubber breeding and physiology to provide a guide for cultivators and researchers of this vital crop. It provides an in-depth analysis of plant structure and crop physiology, climatic requirements, latex production, genetics and breeding, biotechnology, molecular biology, soil tillage and crop establishment, nutrition, weed cont.

Advanced Excel for Scientific Data Analysis Robert De Levie 2004 Excel is by far the most widely distributed data analysis software but few users are aware of its full powers. Advanced Excel For Scientific Data Analysis takes off from where most books dealing with scientific applications of Excel end. It focuses on three areas-least squares, Fourier transformation, and digital simulation-and illustrates these with extensive examples, often taken from the literature. It also includes and describes a number of sample macros and functions to facilitate common data analysis tasks. These macros and functions are provided in uncompiled, computer-readable, easily modifiable form; readers can therefore use them as starting points for making their own personalized data analysis tools. Detailed descriptions and sample applications of standard and specialized uses of least squares for fitting data to a variety of functions, including resolving multi-component spectra; standard processes such as calibration curves and extrapolation; custom macros for general “error” propagation, standard deviations of Solver results, weighted or equidistant least squares, Gram-Schmidt orthogonalization, Fourier transformation, convolution and deconvolution, time-frequency analysis, and data mapping. There are also worked examples showing how to use centering, the covariance matrix, imprecision contours, and Wiener filtering and custom functions for bisections, Lagrange interpolation, Euler and Runge-Kutta integration.

Computational Intelligence Nazmul Siddique 2013-05-06 Computational Intelligence: Synergies of Fuzzy Logic, NeuralNetworks and Evolutionary Computing presents an introduction tosome of the cutting edge technological paradigms under the umbrellaof computational intelligence. Computational intelligence schemesare investigated with the development of a suitable framework forfuzzy logic, neural networks and evolutionary computing,neuro-fuzzy systems, evolutionary-fuzzy systems and evolutionaryneural systems. Applications to linear and non-linear systems arediscussed with examples. Key features: Covers all the aspects of fuzzy, neural and evolutionaryapproaches with worked out examples, MATLAB® exercises andapplications in each chapter Presents the synergies of technologies of computationalintelligence such as evolutionary fuzzy neural fuzzy andevolutionary neural systems Considers real world problems in the domain of systemsmodelling, control and optimization Contains a foreword written by Loffi Zadeh Computational Intelligence: Synergies of Fuzzy Logic, NeuralNetworks and Evolutionary Computing is an ideal text for finalyear undergraduate, postgraduate and research students inelectrical, control, computer, industrial and manufacturingengineering.

Helicobacter pylori R.H. Hunt 2012-12-06 Helicobacter pylori has attracted widening interest from basic scientists and clinical investigators and the information on this organism is increasing exponentially. It is now accepted that H. Pylori is the most important cause of chronic active gastritis. Furthermore, data have confirmed a marked reduction in the relapse rate of both duodenal and gastric ulcer after eradication of the organism. These important clinical observations have served as a strong stimulus to the investigation of the basic mechanisms involved in the pathogenesis of H. pylori-associated inflammation and the subsequent alterations of gastroduodenal function and gastric mucosal architecture. The book contains chapters by a multidisciplinary, international group of basic scientists and clinical investigators who focus on various microbiological aspects of H. pylori, on the role of H. pylori in peptic ulcer and gastric cancer, and the current status of therapy. The book contains the proceedings of the conference on `Helicobacter pylori: Basic Mechanisms to Clinical Cure', held at Amelia Island, Florida, U.S.A., on November 3–6, 1993.

Atomic Layer Deposition for Semiconductors Cheol Seong Hwang 2013-10-18 Offering thorough coverage of atomic layer deposition (ALD), this book moves from basic chemistry of ALD and modeling of processes to examine ALD in memory, logic devices and machines. Reviews history, operating principles and ALD processes for each device.

Micro lithography Bruce W. Smith 2018-10-03 This new edition of the bestselling Micro lithography: Science and Technology provides a balanced treatment of theoretical and operational considerations, from elementary concepts to advanced aspects of modern submicron micro lithography. Each chapter reflects the current research and practices from the world’s leading academic and industrial laboratories detailed by a stellar panel of international experts. New in the Second Edition In addition to updated information on existing material, this new edition features coverage of technologies developed over the last decade since the first edition appeared, including: Immersion Lithography 157nm Lithography Electron Projection Lithography (EPL) Extreme Ultraviolet (EUV) Lithography Imprint Lithography Photoresists for 193nm and Immersion Lithography Scatterometry Micro lithography: Science and Technology, Second Edition authoritatively covers the physics, chemistry, optics, metrology tools and techniques, resist processing and materials, and fabrication methods involved in the latest generations of micro lithography such as immersion lithography and extreme ultraviolet (EUV) lithography. It also looks ahead to the possible future systems and technologies that will bring the next generations to fruition. Loaded with illustrations, equations, tables, and time-saving references to the most current literature, this book is the most comprehensive and reliable source for anyone, from student to seasoned professional, looking to achieve robust, accurate, and cost-effective micro lithography processes and systems.

Space Antenna Handbook William A. Imbriale 2012-06-25 This book addresses a broad range of topics on antennas for space applications. First, it introduces the fundamental methodologies of space antenna design, modelling and analysis as well as the state-of-the-art and anticipated future technological developments. Each of the topics discussed are specialized and contextualized to the space sector. Furthermore, case studies are also provided to demonstrate the design and implementation of antennas in actual applications. Second, the authors present a detailed review of antenna designs for some popular applications such as satellite communications, a space-borne synthetic aperture radar (SAR), Global Navigation Satellite Systems (GNSS) receivers, science instruments, radio astronomy, small satellites, and deep-space applications. Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications. Key Features: Presents a detailed review of antenna designs for applications such as satellite communications, space-borne SAR, GNSS receivers, science instruments, small satellites, radio astronomy, deep-space applications Addresses the space antenna development from different angles, including electromagnetic, thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in-depth

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reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers, professionals and graduate students in the fields of antennas and propagation, electromagnetics, RF/microwave/millimetrewave systems, satellite communications, radars, satellite remote sensing, satellite navigation and spacecraft system engineering. It also aids engineers technical managers and professionals working on antenna and RF designs. Marketing and business people in satellites, wireless, and electronics area who want to acquire a basic understanding of the technology will also find this book of interest.

Artificial Neural Networks Hugh Cartwright 2017-04-30 This volume presents examples of how ANNs are applied in biological sciences and related areas. Chapters focus on the analysis of intracellular sorting information, prediction of the behavior of bacterial communities, biometric authentication, studies of Tuberculosis, gene signatures in breast cancer classification, use of mass spectrometry in metabolite identification, visual navigation, and computer diagnosis. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, application details for both the expert and non-expert reader, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Artificial Neural Networks: Second Edition aids scientists in continuing to study Artificial Neural Networks (ANNs).

Weber Carburetor Manual John Haynes 1996-02-19 This series of comprehensive manuals gives the home mechanic an in-depth look at specific areas of auto repair.

Suzuki Samurai/Sidekick and Geo Tracker Automotive Repair Manual Bob Henderson 1997-01-01 Suzuki Samurai & Sidekick / GEO Tracker 1986-96 Shop ManualHaynes268 pgs., 643 b&w ill.

Advances in Lightweight Materials and Structures A. Praveen Kumar 2020-10-13 This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as nano composites for lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in lightweight sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

Suzuki SV650 and SV650S Matthew Coombs 2002 This repair manual covers Suzuki SV650 and SV650S 1999 to 2005.

Interferogram Analysis For Optical Testing Zacarias Malacara 2018-10-03 In this day of digitalization, you can work within the technology of optics without having to fully understand the science behind it. However, for those who wish to master the science, rather than merely be its servant, it’s essential to learn the nuances, such as those involved with studying fringe patterns produced by optical testing interferometers. When Interferogram Analysis for Optical Testing originally came to print, it filled the need for an authoritative reference on this aspect of fringe analysis. That it was also exceptionally current and highly accessible made its arrival even more relevant. Of course, any book on something as cutting edge as interferogram analysis, no matter how insightful, isn’t going to stay relevant forever. The second edition of Interferogram Analysis for Optical Testing is designed to meet the needs of all those involved or wanting to become involved in this area of advanced optical engineering. For those new to the science, it provides the necessary fundamentals, including basic computational methods for studying fringe patterns. For those with deeper experience, it fills in the gaps and adds the information necessary to complete and update one’s education. Written by the most experienced researchers in optical testing, this text discusses classical and innovative fringe analysis, principles of Fourier theory, digital image filtering, phase detection algorithms, and aspheric wavelength testing. It also explains how to assess wavefront deformation by calculating slope and local average curvature.

Never Far Away Michelle Rodriguez 2013-11-01 Never Far Away is a short story and resource for the parent who has a child that doesn’t like to separate from them when time for school or work. It has illustrative pictures and content for the parent and child to interact before they go about their day.

Animal Models of Diabetes Aileen J. F. King 2020-04-22 This volume discusses a variety of animal models of diabetes, as well as describes techniques used to study end-points when using these models. The chapters in this book cover topics such as important considerations when working with mouse models of diabetes, highlighting factors that new investigators may not be aware of and some potential pitfalls in experimental outcomes; main characteristics of some commonly used animal models of diabetes research, ranging from mice to primates; animal models used to study specific aspects of beta-cell biology; and a focus on techniques used to assess blood glucose homeostasis, insulin action, and islet function in vivo and ex vivo. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, Animal Models of Diabetes: Methods and Protocols is a valuable resource that will help diabetes researchers design and carry out in vivo studies that will best suit their experimental questions and needs.

Recent Advances in Computational and Experimental Mechanics, Vol.–I D. Maity 2022-01-01 This book (Vol. -I) presents select proceedings of the first Online International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM 2020) and focuses on theoretical, computational and experimental aspects of solid and fluid mechanics. Various topics covered are computational modelling of extreme events; mechanical modelling of robots; mechanics and design of cellular materials; mechanics of soft materials; mechanics of thin-film and multi-layer structures; meshfree and particle based formulations in continuum mechanics; multi-scale computations in solid mechanics, and materials; multiscale mechanics of brittle and ductile materials; topology and shape optimization techniques; acoustics including aero-acoustics and wave propagation; aerodynamics; dynamics and control in micro/nano engineering; dynamic instability and buckling; flow-induced noise and vibration; inverse problems in mechanics and system identification; measurement and analysis techniques in nonlinear dynamic systems; multibody dynamical systems and applications; nonlinear dynamics and control; stochastic mechanics; structural dynamics and earthquake engineering; structural health monitoring and damage assessment; turbomachinery noise; vibrations of continuous systems, characterization of advanced materials; damage identification and non-destructive evaluation; experimental fire mechanics and damage; experimental fluid mechanics; experimental solid mechanics; measurement in extreme environments; modal testing and dynamics; experimental hydraulics; mechanism of scour under steady and unsteady flows; vibration measurement and control; bio-inspired materials; constitutive modelling of materials; fracture mechanics; mechanics of adhesion, tribology and wear; mechanics of composite materials; mechanics of multifunctional materials; multiscale modelling of materials; phase transformations in materials; plasticity and creep in materials; fluid mechanics, computational fluid dynamics; fluid-structure interaction; free surface, moving boundary and pipe flow; hydrodynamics; multiphase flows; propulsion; internal flow physics; turbulence modelling; wave mechanics; flow through porous media; shock-boundary layer interactions; sediment transport; wave-structure interaction; reduced-order models; turbo-machinery; experimental hydraulics; mechanism of scour under steady and unsteady flows; applications of machine learning and artificial intelligence in mechanics; transport phenomena and soft computing tools in fluid mechanics. The contents of these two volumes (Volumes I and II) discusses various attributes of modern-age mechanics in various disciplines, such as aerospace, civil, mechanical, ocean engineering and naval architecture. The book will be a valuable reference for beginners, researchers, and professionals interested in solid and fluid mechanics and allied fields.

Supply Chain Management Sunil Chopra 2010 ‘Supply Chain Management’ illustrates the key drivers of good supply chain management in order to help students understand what creates a competitive advantage. It also provides strong coverage of analytic skills so that students can gauge the effectiveness of the techniques described.

Mechanics of Pneumatic Tires United States. National Highway Traffic Safety Administration 1981

How to Custom Paint Your Car JoAnn Bortles

Receptor Signal Transduction Protocols R. A. J. Challiss 2013-08-08 Gaining an understanding of the mechanisms by which cells process and respond to extracellular cues has become a major goal in many areas of bi- ogy and has attracted the attentions of almost every traditional discipline within the biological sciences. At the heart of these divergent endeavors are common methods that can aid biochemists, physiologists, and pharmacologists in ta- ling the specific questions addressed by their research. In Receptor Signal Transduction Protocols, a diverse array of meth- ologies employed to interrogate ligand–receptor and receptor–effector int- actions are described by authors who have devised and successfully applied them. The authors blend excellent descriptions and applications of fairly well established methodologies with new technologies at the cutting-edge of signal transduction research and as such I hope the present volume will complement and extend a previous excellent volume in this series edited by David Kendall and Stephen Hill (Methods Molecular Biology, vol. 41, Signal Transd- tion Protocols).

Assembly Mark Webster 2002

Smart Applications and Data Analysis Mohamed Hamlich 2020-06-04 This volume constitutes refereed proceedings of the Third International Conference on Smart Applications and Data Analysis, SADASC 2020, held in Marrakesh, Morocco. Due to the COVID-19 pandemic the conference has been postponed to June 2020. The 24 full papers and 3 short papers presented were thoroughly reviewed and selected from 44 submissions. The papers are organized according to the following topics: ontologies and meta modeling; cyber physical systems and block-chains; recommender systems; machine learning based applications; combinatorial optimization; simulations and deep learning.

Crop Stress and its Management: Perspectives and Strategies B. Venkateswarlu 2011-11-22 Crops experience an assortment of environmental stresses which include abiotic viz., drought, water logging, salinity, extremes of temperature, high variability in radiation, subtle but perceptible changes in atmospheric gases and biotic viz., insects, birds, other pests, weeds, pathogens (viruses and other microbes). The ability to tolerate or adapt and overwinter by effectively countering these stresses is a very multifaceted phenomenon. In addition, the inability to do so which renders the crops susceptible is again the result of various exogenous and endogenous interactions in the ecosystem. Both biotic and abiotic stresses occur at various stages of plant development and frequently more than one stress concurrently affects the crop. Stresses result in both universal and definite effects on plant growth and development. One of the imposing tasks for the crop researchers globally is to distinguish and to diminish effects of these stress factors on the performance of crop plants, especially with respect to yield and quality of harvested products. This is of special significance in view of the impending climate change, with complex consequences for economically profitable and ecologically and environmentally sound global agriculture. The challenge at the hands of the crop scientist in such a scenario is to promote a competitive and multifunctional agriculture, leading to the production of highly nourishing, healthy and secure food and animal feed as well as raw materials for a wide variety of industrial applications. In order to successfully meet this challenge researchers have to understand the various aspects of these stresses in view of the current development from molecules to ecosystems. The book will focus on broad research areas in relation to these stresses which are in the forefront in contemporary crop stress research.

Computers Helping People with Special Needs Klaus Miesenberger 2020-09-09 The two-volume set LNCS 12376 and 12377 constitutes the refereed proceedings of the 17th International Conference on Computers Helping People with Special Needs, ICCHP 2020, held in Lecco, Italy, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 104 papers presented were carefully reviewed and selected from 206 submissions. Included also are 13 introductions. The papers are organized in the following topical sections: Part I: user centred design and user participation in inclusive R&D; artificial intelligence, accessible and assistive technologies; XR accessibility - learning from the past, addressing real user needs and the technical architecture for inclusive immersive environments; serious and fun games; large-scale web accessibility observatories; accessible and inclusive digital publishing; AT and accessibility for blind and low vision users; Art Karshmer lectures in access to mathematics, science and engineering; tactile graphics and models for blind people and recognition of shapes by touch; and environmental sensing technologies for visual impairment Part II: accessibility of non-verbal communication: making spatial information accessible to people with disabilities; cognitive disabilities and accessibility – pushing the boundaries of inclusion using digital technologies and accessible eLearning environments; ICT to support inclusive education – universal learning design (ULD); hearing systems and accessories for people with hearing loss; mobile health and mobile rehabilitation for people with disabilities: current state, challenges and opportunities; innovation and implementation in the area of independent mobility through digital technologies; how to improve interaction with a text input system; human movement analysis for the design and evaluation of interactive systems and assistive devices; and service and care provision in assistive environments 10 chapters are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Advances in Hydroinformatics Philippe Gourbesville 2018-02-26 This book gathers a collection of extended papers based on presentations given during the SimHydro 2017 conference, held in Sophia Antipolis, Nice, France on June 14–16, 2017. It focuses on how to choose the right model in applied hydraulics and considers various aspects, including the modeling and simulation of fast hydraulic transients, 3D modeling, uncertainties and multiscale flows. The book explores both limitations and performance of current models and presents the latest developments in new numerical schemes, high-performance computing, multiphysics and multiscale methods, and better interaction with field or scale model data. It gathers the latest theoretical and innovative developments in the modeling field and presents some of the most advance applications on various water related topics like uncertainties, flood simulation and complex hydraulic applications. Given its breadth of coverage, it addresses the needs and interests of practitioners, stakeholders, researchers and engineers alike.

Self-healing Materials Swapan Kumar Ghosh 2009-08-04 The book covers self-healing concepts for all important material classes and their applications: polymers, ceramics, non-metallic and metallic coatings, alloys, nanocomposites, concretes and cements, as well as ionomers. Beginning with the inspiration from biological self-healing, its mimicry and conceptual transfer into approaches for the self-repair of artificially created materials, this book explains the strategies and mechanisms for the readers’ basic understanding, then covers the different material classes and suitable self-healing concepts, giving examples for their application in practical situations. As the first book in this swiftly growing research field, it is of great interest to readers from many scientific and engineering disciplines, such as physics and chemistry, civil, architectural, mechanical, electronics and aerospace engineering.

Advances in Computer Communication and Computational Sciences Sanjiv K. Bhatia 2019-05-21 This book includes key insights that reflect ‘Advances in Computer and Computational Sciences’ from upcoming researchers and leading academics around the globe. It gathers high-quality, peer-reviewed papers presented at the International Conference on Computer, Communication and Computational Sciences (IC4S 2018), which was held on 20-21 October, 2018 in Bangkok. The book covers a broad range of topics, including intelligent hardware and software design, advanced communications, intelligent computing techniques, intelligent image processing, and web and informatics. Its goal is to familiarize readers from the computer industry and academia with the latest advances in next-generation computer and communication technology, which they can subsequently integrate into real-world applications.

Fundamentals of Stored-Product Entomology David Hagstrum 2016-06-08 This reference discusses the fundamentals of stored-product entomology that need to be considered in planning, implementation, and evaluation of a pest management program. It is based on the review of an extensive database of references and many years of research on stored-product insect problems by the expert authors. The information in this book helps answer consumers’ concern about pesticide residues in food by providing helpful IPM and alternative approaches for pest management. It provides the basic information needed to manage pests with and without the use of chemicals. Managing pests requires a thorough understanding of insect biology, behavior, ecology, sampling, pros and cons of management options, and responses of insects to the various management options. This comprehensive book covers all of these topics, beginning with a discussion of the scope of stored-product entomology. It also provides insight into the diversity of foods and habitats utilized by stored-product insects, the types of economic losses

attributable to them, and the ways in which an understanding of their biology can be used to study or manage these insects. Insect mobility, sources of insect infestation, sampling, life history, and population growth are discussed as well, as they play an important role in developing an effective sampling program. In addition, decision aids, the cost of management methods, and the resistance of insects to management methods are covered. For insight into the thought process of choosing treatment options, eight pest management methods are thoroughly described, including a statement of the basic operating principle and background information. For help choosing various chemical and nonchemical methods for diverse situations, the advantages, disadvantages and implementation options for each method are given. Students, extension educators, consultants, food industry sanitarians and managers, legislators, regulators, and insect pest management professionals are sure to find information that will help them to improve pest management. Study questions at the end of each chapter Suggested supplemental reading, including books, conference proceeding papers, literature reviews, research papers, government publications, and popular articles General overview of the biology for a basic understanding of pest control issues Guides the reader through the thought process of designing a pest control program or research study Images of the most damaging of stored-product insect pest species for identification of families Quick

methods for distinguishing closely related stored-product insect species

Teaching about American Federal Democracy Temple University. Center for the Study of Federalism 1986 Ten essays discuss federal democracy, the form of government of the United States. The first essay discusses the origins of American federalism. The second examines why we have a federal system, the functions federalism serves, and the consequences of federalism for the American political system. Federalism in the Constitution and constitutional law are treated in the third essay. The importance of cultural pluralism in American life and the role of American federalism in supporting pluralism are the foci of the fourth essay. The roles that the local community, the states, and political parties play in the federal system are examined in essays 5, 6, and 7, respectively. State, local, and professional roles in citizenship education are discussed in the eighth essay. The ninth essay explores how high school U.S. history and government textbooks approach federalism. The concluding essay describes resources on federalism that can be used in curriculum development at the secondary and college levels. Many of the essays are followed by topics for further study and suggested readings for teachers. (RM)