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Critical Companion to Contemporary Marxism BRILL International and interdisciplinary in range and scope, the "Critical Companion to Contemporary Marxism" provides a thorough and precise panorama of recent developments in Marxist theory in the US, Europe and beyond. **Wind Loading of Structures** CRC Press Bridging the gap between wind and structural engineering, Wind Loading of Structures is essential reading for practising civil, structural and mechanical engineers, and graduate students of wind engineering, presenting the principles of wind engineering and providing guidance on the successful design of structures for wind loading by gales, hurricanes, typhoons, thunderstorm downdrafts and tornados. **The Superalloys Fundamentals and Applications** Cambridge University Press Superalloys are unique high-temperature materials used in gas turbine engines, which display excellent resistance to mechanical and chemical degradation. This book presents the underlying metallurgical principles which have guided their development and practical aspects of component design and fabrication from an engineering standpoint. The topics of alloy design, process development, component engineering, lifetime estimation and materials behaviour are described, with emphasis on critical components such as turbine blading and discs. The first introductory text on this class of materials, it will provide a strong grounding for those studying physical metallurgy at the advanced level, as well as practising engineers. Included at the end of each chapter are exercises designed to test the reader's understanding of the underlying principles presented. Solutions for instructors and additional resources are available at www.cambridge.org/9780521859042. **High Voltage Engineering Handbook of Research on Educational Communications and Technology A Project of the Association for Educational Communications and Technology** Routledge First Published in 2008. Routledge is an imprint of Taylor & Francis, an informa company. **Postharvest Pathology Next Generation Solutions to Reducing Losses and Enhancing Safety** Springer Nature The book will address selected topics in postharvest pathology aiming at highlighting recent development in the science, technology and control strategies of postharvest diseases to reduce losses and enhance safety of harvested agricultural products. Topics will include: 1) Introduction: Perspectives and challenges in postharvest pathology 2) Elucidating host-pathogen interactions 3) Next generation technologies for management and detection of postharvest pathogens 4) Food safety in postharvest pathology 5) Alternative postharvest diseases control strategies 6) Chemical control of postharvest diseases **Design and Development of Aerospace Vehicles and Propulsion Systems Proceedings of SAROD 2018** Springer Nature This book presents selected papers presented in the Symposium on Applied Aerodynamics and Design of Aerospace Vehicles (SAROD 2018), which was jointly organized by Aeronautical Development Agency (the nodal agency for the design and development of combat aircraft in India), Gas-Turbine Research Establishment (responsible for design and development of gas turbine engines for military applications), and CSIR-National Aerospace Laboratories (involved in major aerospace programs in the country such as SARAS program, LCA, Space Launch Vehicles, Missiles and UAVs). It brings together experiences of aerodynamicists in India as well as abroad in Aerospace Vehicle Design, Gas Turbine Engines, Missiles and related areas. It is a useful volume for researchers, professionals and students interested in diversified areas of aerospace engineering. **Applied Stochastic Modelling, Second Edition** CRC Press Highlighting modern computational methods, Applied Stochastic Modelling, Second Edition provides students with the practical experience of scientific computing in applied statistics through a range of interesting real-world applications. It also successfully revises standard probability and statistical theory. Along with an updated bibliography and improved figures, this edition offers numerous updates throughout. New to the Second Edition An extended discussion on Bayesian methods A large number of new exercises A new appendix on computational methods The book covers both contemporary and classical aspects of statistics, including survival analysis, Kernel density estimation, Markov chain Monte Carlo, hypothesis testing, regression, bootstrap, and generalised linear models. Although the book can be used without reference to computational programs, the author provides the option of using powerful computational tools for stochastic modelling. All of the data sets and MATLAB® and R programs found in the text as well as lecture slides and other ancillary material are available for download at www.crcpress.com Continuing in the bestselling tradition of its predecessor, this textbook remains an excellent resource for teaching students how to fit stochastic models to data. **Nutrigenetics** MDPI This book is a printed edition of the Special Issue "Nutrigenetics" that was published in Nutrients **World Directory of Crystallographers And of Other Scientists Employing Crystallographic Methods** Springer Science & Business Media The 10th edition of the World Directory of Crystallographers and of Other Scientists Employing Crystallographic Methods is a revised and up-to-date edition of the World Directory and contains the current addresses, academic status and research interests of over 8000 scientists in 74 countries. It is produced directly from the regularly updated electronic World Directory database, which is accessible via the World-Wide Web. Full details of the database are given in an Annex to the printed edition. **Dysphagia Management in Head and Neck Cancers A Manual and Atlas** Springer Dysphagia and problems related to swallowing are common following treatment for head and neck cancers. Though there are books available on dysphagia management and associated neurological conditions, this is the only atlas that comprehensively discusses dysphagia related to the head and neck cancers. It comprises of 33 chapters divided into five sections. The initial chapters present the anatomy and physiology of swallowing and the pathophysiology of the dysphagia-related structures. It discusses assessment of dysphagia in detail, highlighting clinical and instrumental evaluations. Swallowing dysfunction related to common sub-site cancers and chemo-radiotherapy related dysphagia are explored individually. The book addresses direct and indirect swallowing therapy methods involving postures and exercises in a detailed yet simple manner to enable them to be incorporated in routine practice. It also covers topics like nutritional management, alternative feeding methods and unique problems associated with tracheostomy that have a great bearing on the day-to-day management of patients with dysphagia. The current status of the research and evidence-based management updates are also included. Additionally, where appropriate videos are included for a better understanding of the subject. Written and edited by experts in the field, the book is intended for clinicians treating head and neck cancer, head and neck surgeons, radiation oncologists, speech and swallowing therapy specialists and trainees in these fields **Advanced Nanomaterials and Nanotechnology Proceedings of the 2nd International Conference on Advanced Nanomaterials and Nanotechnology, Dec 8-10, 2011, Guwahati, India** Springer Science & Business Media Nanoscale science and technology have occupied centre stage globally in modern scientific research and discourses in the early twenty first century. The enabling nature of the technology makes it important in modern electronics, computing, materials, healthcare, energy and the environment. This volume contains selected articles presented (as Invited/Oral/Poster presentations) at the 2nd international conference on advanced materials and nanotechnology (ICANN-2011) held recently at the Indian Institute of Technology Guwahati, during Dec 8-10, 2011. The list of topics covered in this proceedings include: Synthesis and self assembly of nanomaterials Nanoscale characterisation Nanophotonics & Nanoelectronics Nanobiotechnology Nanocomposites F Nanomagnetism Nanomaterials for Energy Computational Nanotechnology Commercialization of Nanotechnology The conference was represented by around 400 participants from several countries including delegates invited from USA, Germany, Japan, UK, Taiwan, Italy, Singapore, India etc. **Postgraduate Haematology** John Wiley & Sons "Most hematologists need a revised and practical textbook in which they can rapidly search on the morning of a consultation...This book will be an important resource in such situations." New England Journal of Medicine A well established and respected review of hematology Postgraduate Haematology is a practical, readable text which will give trainees, residents and practising hematologists up-to-date knowledge of the pathogenesis, clinical and laboratory features and management of blood disorders. Postgraduate Haematology is ideal for: Trainees and residents in hematology Hematologists in practice Why Buy This Book? A well established and respected review of hematology Practical and readable text Essential information for everyday use as well as the scientific background Up-to-date knowledge of the pathogenesis, clinical and laboratory features and management of blood disorders Complete revision of all chapters and the addition of new chapters to reflect latest advances in the speciality **Applications of Bioinformatics in Rice Research** Springer Nature This book summarizes the advanced computational methods for mapping high-density linkages and quantitative trait loci in the rice genome. It also discusses the tools for analyzing metabolomics, identifying complex polyploidy genomes, and decoding the extrachromosomal genome in rice. Further, the book highlights the application of CRISPR-Cas technology and methods for understanding the evolutionary development and the de novo evolution of genes in rice. Lastly, it discusses the role of artificial intelligence and machine learning in rice research and computational tools to analyze plant-pathogen co-evolution in rice crops. **Genomic Designing for Biotic Stress Resistant Cereal Crops** Springer Nature This book presents deliberations on molecular and genomic mechanisms underlying the interactions of crop plants to the biotic stresses caused by different diseases and pests that are important to develop resistant crop varieties. Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding, transgenics, genomic-assisted breeding, and the recently emerging genome editing for developing resistant varieties in cereal crops is imperative for addressing FHNEE (food, health, nutrition, energy, and environment) security. Whole genome sequencing of these crops followed by genotyping-by-sequencing has provided precise information regarding the genes conferring resistance useful for gene discovery, allele mining, and shuttle breeding which in turn opened up the scope for 'designing' crop genomes with resistance to biotic stresses. The eight chapters each dedicated to a cereal crop in this volume elucidate on different types of biotic stresses and their effects on and interaction with the crop; enumerate on the available genetic diversity with regard to biotic stress resistance among available cultivars; illuminate on the potential gene pools for utilization in interspecific gene transfer; present brief on classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts; depict the success stories of genetic engineering for developing biotic stress-resistant crop varieties; discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker-assisted introgression into elite varieties; enunciate on different genomics-aided techniques including genomic selection, allele mining, gene discovery, and gene pyramiding for developing adaptive crop varieties with higher quantity and quality of yields, and also elaborate some case studies on genome editing focusing on specific genes for generating biotic stress-resistant crops. **Immunotherapy** Springer Nature The field of immuno-oncology continues to rapidly evolve as new insights to fight and treat cancer emerge. The fourth edition of Immunotherapy provides the most current overview of immuno-oncology in different cancer types and toxicities associated with immunotherapy. While immunotherapy has revolutionized the treatment landscape of several solid malignancies, several challenges still exist. Only a subset of patients derive clinical benefits; some do not respond at all, and others respond initially, only for their disease to progress later. Because these drugs can activate a broad range of immune cells, patients suffer from a unique set of side effects known as immune-related adverse events. As more immunotherapeutic agents are used in the clinic, it is important to provide updates about current and ongoing developments in the field to further research efforts and inform treatment decisions. The fourth edition will have a new focus on strategies to overcome the challenges associated with immunotherapy. Chapters will discuss topics such as biomarkers of response,

resistance mechanisms, role of imaging in predicting immune-related adverse events, and management of immune-related adverse events. Written by leading experts conducting cutting-edge research, readers will gain up-to-date knowledge on the current state and future of immunotherapy.

Understanding and Measuring Social Capital A Multidisciplinary Tool for Practitioners World Bank Publications This work details various methods of gauging social capital and provides illustrative case studies from Mali and India. It also offers a measuring instrument, the Social Capital Assessment Tool, that combines quantitative and qualitative approaches.

Aerospace Materials and Material Technologies Volume 2: Aerospace Material Technologies Springer This book serves as a comprehensive resource on various traditional, advanced and futuristic material technologies for aerospace applications encompassing nearly 20 major areas. Each of the chapters addresses scientific principles behind processing and production, production details, equipment and facilities for industrial production, and finally aerospace application areas of these material technologies. The chapters are authored by pioneers of industrial aerospace material technologies. This book has a well-planned layout in 4 parts. The first part deals with primary metal and material processing, including nano manufacturing. The second part deals with materials characterization and testing methodologies and technologies. The third part addresses structural design. Finally, several advanced material technologies are covered in the fourth part. Some key advanced topics such as "Structural Design by ASIP", "Damage Mechanics-Based Life Prediction and Extension" and "Principles of Structural Health Monitoring" are dealt with at equal length as the traditional aerospace materials technology topics. This book will be useful to students, researchers and professionals working in the domain of aerospace materials.

Dynamics of Immune Activation in Viral Diseases Springer Nature This book discusses various components of the innate and adaptive immune response in combating viral infections, presenting the recent advances in our understanding of innate immunity recognition of viruses and highlighting the important role of inflammation, cytokines such as interferon, toll-like receptors and leukocytes in the initial detection of invading viruses and subsequent activation of adaptive immunity. It also summarizes the role of the adaptive immunity against viral infections through clearance of virus and establishment of memory response that protects against the recurrent infections. In addition, the book examines the role of DNA and RNA sensors in viral recognition and in controlling viral infection. Lastly, it reviews the latest developments in the development of the rational viral vaccines. As such it is a useful resource book for postgraduate and early researchers wanting to gain insights into the immune response to viral infections.

Genetic and Genomic Resources of Grain Legume Improvement Newnes Grain legumes, including common-bean, chickpea, pigeonpea, pea, cowpea, lentil and others, form important constituents of global diets, both vegetarian and non-vegetarian. Despite this significant role, global production has increased only marginally in the past 50 years. The slow production growth, along with a rising human population and improved buying capacity has substantially reduced the per capita availability of food legumes. Changes in environmental climate have also had significant impact on production, creating a need to identify stable donors among genetic resources for environmentally robust genes and designing crops resilient to climate change. Genetic and Genomic Resources of Grain Legume Improvement is the first book to bring together the latest resources in plant genetics and genomics to facilitate the identification of specific germplasm, trait mapping and allele mining to more effectively develop biotic and abiotic-stress-resistant grains. This book will be an invaluable resource for researchers, crop biologists and students working with crop development. Explores origin, distribution and diversity of grain legumes Presents information on germplasm collection, evaluation and maintenance Offers insight into pre-breeding/germplasm enhancement efforts Integrates genomic and genetic resources in crop improvement Internationally contributed work

Plant Microbiomes for Sustainable Agriculture Springer Nature This book encompasses the current knowledge of plant microbiomes and their potential biotechnological application for plant growth, crop yield and soil health for sustainable agriculture. The plant microbiomes (rhizospheric, endophytic and epiphytic) play an important role in plant growth, development, and soil health. Plant and rhizospheric soil are a valuable natural resource harbouring hotspots of microbes, and it plays critical roles in the maintenance of global nutrient balance and ecosystem function. The diverse group of microbes is key components of soil-plant systems, where they are engaged in an intense network of interactions in the rhizosphere/endophytic/phyllospheric. The rhizospheric microbial diversity present in rhizospheric zones has a sufficient amount of nutrients release by plant root systems in form of root exudates for growth, development and activities of microbes. The endophytic microbes are referred to those microorganisms, which colonize in the interior of the plant parts, viz root, stem or seeds without causing any harmful effect on host plant. Endophytic microbes enter in host plants mainly through wounds, naturally occurring as a result of plant growth, or through root hairs and at epidermal junctions. Endophytes may be transmitted either vertically (directly from parent to offspring) or horizontally (among individuals). The phyllosphere is a common niche for synergism between microbes and plant. The leaf surface has been termed as phyllosphere and zone of leaves inhabited by microorganisms as phyllosphere. The plant part, especially leaves, is exposed to dust and air currents resulting in the establishments of typical flora on their surface aided by the cuticles, waxes and appendages, which help in the anchorage of microorganisms. The phyllospheric microbes may survive or proliferate on leaves depending on extent of influences of material in leaf diffuseness or exudates. The leaf diffuseness contains the principal nutrients factors (amino acids, glucose, fructose and sucrose), and such specialized habitats may provide niche for nitrogen fixation and secretions of substances capable of promoting the growth of plants. The microbes associated with plant as rhizospheric, endophytic and epiphytic with plant growth promoting (PGP) attributes have emerged as an important and promising tool for sustainable agriculture. PGP microbes promote plant growth directly or indirectly, either by releasing plant growth regulators; solubilization of phosphorus, potassium and zinc; biological nitrogen fixation or by producing siderophore, ammonia, HCN and other secondary metabolites which are antagonistic against pathogenic microbes. The PGP microbes belong to different phylum of archaea (Euryarchaeota); bacteria (Acidobacteria, Actinobacteria, Bacteroidetes, Deinococcus-Thermus, Firmicutes and Proteobacteria) and fungi (Ascomycota and Basidiomycota), which include different genera namely Achromobacter, Arthrobacter, Aspergillus, Azospirillum, Azotobacter, Bacillus, Beijerinckia, Burkholderia, Enterobacter, Erwinia, Flavobacterium, Gluconacetobacter, Haloarcula, Herbaspirillum, Methylobacterium, Paenibacillus, Pantoea, Penicillium, Piriformospora, Planomonospora, Pseudomonas, Rhizobium, Serratia and Streptomyces. These PGP microbes could be used as biofertilizers/bioinoculants at place of chemical fertilizers for sustainable agriculture. The aim of "Plant Microbiomes for Sustainable Agriculture" is to provide the current developments in the understanding of microbial diversity associated with plant systems in the form of rhizospheric, endophytic and epiphytic. The book is useful to scientist, research and students related to microbiology, biotechnology, agriculture, molecular biology, environmental biology and related subjects.

Vegf and Cancer Springer Science & Business Media VEGF and Cancer is a comprehensive and up to date review of current knowledge on the role of vascular endothelial growth factor (VEGF) in cancer. Key Features: -Discussion of VEGF as potent angiogenic factor and its role in tumor angiogenesis, -Review of the biology, molecular properties and regulation of VEGF, -Discussion of the role of VEGF in a range of different tumor types, both solid tumors and haematological cancers, -Review of the therapeutic potential of different approaches to block VEGF, -Review of recent evidence that in addition to its role as an endothelial cell mitogen, VEGF may also be an autocrine growth factor for tumor cells, regulating survival and invasion. This book is aimed at scientists new to angiogenesis and VEGF biology and provides new information for established researchers and scientists. It will also be a useful text for clinicians interested in anti-angiogenic therapy for treatment of human cancers.

Janeway's Immunobiology Garland Science The Janeway's Immunobiology CD-ROM, Immunobiology Interactive, is included with each book, and can be purchased separately. It contains animations and videos with voiceover narration, as well as the figures from the text for presentation purposes.

Reproductive Ecology of Flowering Plants: Patterns and Processes Springer Nature Sexual reproduction is the predominant mode of perpetuation for flowering plant species. Investigating the reproductive strategies of plants has grown to become a vast area of research and, in crop plants, covers events from flowering to fruit and seed development; in wild species, it extends up to seed dispersal and seedling recruitment. Thus, reproduction determines the extent of yield in crop plants and, in wild plants, also determines the efficacy of recruiting new adults to the population, making this field important both from fundamental and applied plant biology perspectives. Moreover, in light of the growing concerns regarding food and nutritional security for the growing population and preserving biological diversity, reproductive biology of flowering plants has acquired special significance. Extensive studies on various facets of reproduction are being carried out around the world. However, these studies are scattered across research journals and reviews from diverse areas of biology. The present volume covers the whole spectrum of reproductive ecology, from phenology and floral biology, to sexuality and pollination biology/ecology including floral rewards, breeding systems, apomixis and seed dispersal. In turn, transgene flow, its biosafety and mitigation approaches, and the 'global pollinator crisis', which has become a major international concern in light of the urgent need to sustain crop yield and biodiversity, are discussed in detail. Given its scope, the book offers a valuable resource for students, teachers and researchers of botany, zoology, ecology, agriculture and forestry, as well as conservation biologists.

Microbiological Activity for Soil and Plant Health Management Springer Nature Plants and the soil they grow in, are confronted with severe biotic and abiotic stresses viz. nutrient starvation, salt stress, drought, flooding, xenobiotic contamination, in order to sustain in an ecosystem. They also shape the microbial composition in their vicinity by modulating their secretions. This book discusses the pressing demand for novel and potential microorganisms to support an environment-friendly and cost-effective way of stress management in the plants. The book summarizes the processes and mechanisms involved in microbe-assisted plant and soil stress management. It discusses the challenges and opportunities in the application of microbial interactions in plant health. It describes in detail the nutrient dynamics of different soil systems. It includes important topics like agriculturally important genes and enzymes, rhizosphere modeling & engineering, genetically engineered bio-inoculants etc. It also talks about the application of next-generation technologies, omics and nano-based technologies. In the recent years, more than 50% of agricultural production relies on chemical fertilizers, leading to serious health issues and environmental concerns. This book provides natural solutions to these environmental concerns. This book is useful for researchers and students in the field of microbiology, agriculture, soil biology and plant sciences.

Data-Intensive Science CRC Press Data-intensive science has the potential to transform scientific research and quickly translate scientific progress into complete solutions, policies, and economic success. But this collaborative science is still lacking the effective access and exchange of knowledge among scientists, researchers, and policy makers across a range of disciplines. Bringing together leaders from multiple scientific disciplines, Data-Intensive Science shows how a comprehensive integration of various techniques and technological advances can effectively harness the vast amount of data being generated and significantly accelerate scientific progress to address some of the world's most challenging problems. In the book, a diverse cross-section of application, computer, and data scientists explore the impact of data-intensive science on current research and describes emerging technologies that will enable future scientific breakthroughs. The book identifies best practices used to tackle challenges facing data-intensive science as well as gaps in these approaches. It also focuses on the integration of data-intensive science into standard research practice, explaining how components in the data-intensive science environment need to work together to provide the necessary infrastructure for community-scale scientific collaborations. Organizing the material based on a high-level, data-intensive science workflow, this book provides an understanding of the scientific problems that would benefit from collaborative research, the current capabilities of data-intensive science, and the solutions to enable the next round of scientific advancements.

Basic Civil and Mechanical Engineering / Aerospace America Genome Engineering for Crop Improvement Springer Nature This book serves the teachers, researchers and the students as a handy and concise reference as well as guidebook while designing and planning for use of the advanced technologies for crop improvement. The content of the book is designed to cover the latest genome engineering techniques for crop improvement. The conventional breeding has got its limitations such as non-availability of desired genes within the gene pool. In many cases, breeding has been highly used and it has nearly reached its highest limit so far as the productivity and production of crops are concerned. However, with increasing need of food and decreasing resources, including water, land, labour, etc., to feed the growing population, the alternative available ways of increasing crop productivity need to be explored and exploited. Genome engineering has a wide scope that includes technologies such as genetic engineering and transgenesis, RNA technologies, CRISPR, cisgenics and subgenics for better productivity and more efficient biotic and abiotic stress management. Therefore, the book is planned to enlighten the readers with the advanced technologies with examples and case studies, whenever possible. Efforts will be made to emphasize on general efforts on various major food crops; however, it would also be made clear that such efforts could be taken as proofs of concepts and that this could be extrapolated keeping the demand in mind.

South Pacific Contract Law Cavendish Publishing This book presents the general principles of contract law that apply in the countries of the University of the South Pacific ('USP') region - Cook Islands, Fiji Islands, Kiribati, Marshall Islands, Nauru, Niue, Tokelau, Tonga, Tuvalu, Samoa, Solomon Islands, and Vanuatu. It is unique in that it provides the only up-to-date survey of regional authorities for the principles of contract operating within the region. Like many other branches of the law, contract law has yet to establish its own identity in the South Pacific. However, whilst it is still based on the law of England, there are significant differences between English contract law and South Pacific contract law. The text provides a clear explanation of this divergence and highlights regional innovations, both in the form of legislation and local case law. It also examines the role of customary law and provides a comprehensive study of the significant differences between the law of contract in individual regional countries. Comparison is made between regional law with current English contract law, and with the contract law of Australia and New Zealand, particularly where regional courts have preferred that law to the law of England. This book is essential

reading for all students of contract law in the South Pacific and constitutes a very useful source book and guide for academics and practitioners, from within and outside the region. **Oncoimmunology A Practical Guide for Cancer Immunotherapy** Springer In this book, leading experts in cancer immunotherapy join forces to provide a comprehensive guide that sets out the main principles of oncoimmunology and examines the latest advances and their implications for clinical practice, focusing in particular on drugs with FDA/EMA approvals and breakthrough status. The aim is to deliver a landmark educational tool that will serve as the definitive reference for MD and PhD students while also meeting the needs of established researchers and healthcare professionals. Immunotherapy-based approaches are now inducing long-lasting clinical responses across multiple histological types of neoplasia, in previously difficult-to-treat metastatic cancers. The future challenges for oncologists are to understand and exploit the cellular and molecular components of complex immune networks, to optimize combinatorial regimens, to avoid immune-related side effects, and to plan immunomonitoring studies for biomarker discovery. The editors hope that this book will guide future and established health professionals toward the effective application of cancer immunology and immunotherapy and contribute significantly to further progress in the field. **Handbook of Structural Life Assessment** John Wiley & Sons This important, self-contained reference deals with structural life assessment (SLA) and structural health monitoring (SHM) in a combined form. SLA periodically evaluates the state and condition of a structural system and provides recommendations for possible maintenance actions or the end of structural service life. It is a diversified field and relies on the theories of fracture mechanics, fatigue damage process, and reliability theory. For common structures, their life assessment is not only governed by the theory of fracture mechanics and fatigue damage process, but by other factors such as corrosion, grounding, and sudden collision. On the other hand, SHM deals with the detection, prediction, and location of crack development online. Both SLA and SHM are combined in a unified and coherent treatment, bringing together the major mechanical processes at work that determine the lifetime of a structure, including normal loading, extreme loading, and the effects of corrosion with relevant analysis techniques covering joints and weldments, which are features where structural failure is likely to originate reviewing diversified problems including probabilistic description of structural failure, extreme loading, environmental effects such as corrosion and hydrogen embrittlement, joints and weldments, and control of crack propagation (crack arresters) and corrosion providing a unified approach to SLA and SHM. Handbook of Structural Life Assessment will be an essential guide for aerospace structures designers and maintenance engineers, pipeline engineers, ship designers and builders, researchers in civil, mechanical, naval, and aerospace engineering, and graduate students in civil, mechanical, naval, and aerospace engineering. **Alberto Giacometti Graphics on the Border between Art and Thought Neurological Disorders Imaging Physics** IOP Publishing Limited This book focuses on major trends and challenges in the area of dyslexia, epilepsy and Parkinson's, and aims to identify new techniques and their applications in biomedical analysis. This fifth volume on neurological disorders explores topics such as real-time epilepsy prediction applied on EEG pediatric data; delineation of epileptogenic zone; behavioral and biological correlates and treatment of dyslexia; potential biomarkers of Parkinson's disease; Rett Syndrome; and automatic assessment of motor impairments for Parkinson's disease. This is an essential reference for students and researchers in medical imaging, brain imaging, image processing, and neurology. Key Features World class contributors in neurological disorders imaging Presents a comprehensive review of imaging related dyslexia, epilepsy and Parkinson's Introductory section presents the fundamentals of various imaging techniques **Industry Institute Interaction** Sarup & Sons In Indian context. **Fundamentals and Assessment Tools for Occupational Ergonomics** CRC Press Completely revised and updated, taking the scientific rigor to a whole new level, the second edition of the Occupational Ergonomics Handbook is now available in two volumes. This new organization demonstrates the enormous amount of advances that have occurred in the field since the publication of the first edition. The second edition not only provides more information but makes it more accessible. Each volume narrows the focus while broadening the coverage, supplying immediate access to important information. One of the most comprehensive sources for ergonomic knowledge available, written by leading experts, providing both sound theory and practical examples, this book is a valuable resource for anyone in the field. Fundamental and Assessment Tools for Occupational Ergonomics merges the frontiers of ergonomics, workplace design, and management issues. The editors have brought together researchers from disciplines such as biomechanics, anthropometry, and cognitive science with pioneering practitioners in industry. They discuss tools of the trade, upper extremity analysis, backs, interventions, management issues, design for ergonomics, principles of product design, band-aid approaches, processing, distribution centers, and service systems. The handbook is a compendium of information authored by top-flight investigators who represent the cutting edge of opinion, research, and interest in the field. **Large Space Structures & Systems in the Space Station Era A Bibliography with Indexes Geriatric Urology** Elsevier Health Sciences This issue of Clinics in Geriatric Medicine is devoted to Geriatric Urology.? Guest Editor Tomas L. Griebing, MD, MPH has assembled a group of expert authors to review the following topics: Non-Surgical Treatment of Urinary Incontinence in Elderly Women; Outcomes of Surgery for Stress Urinary Incontinence in Older Women; Evaluation and Management of Pelvic Organ Prolapse in Elderly Women; Underactive Bladder in Older Adults; Translational Research and Voiding Dysfunction in Older Adults; Functional Brain Imaging and Voiding Dysfunction in Older Adults; The Role of Urodynamics in Elderly Patients; Associations Between Voiding Symptoms and Sexual Health in Older Adults; Asymptomatic Bacteriuria and Urinary Tract Infections in Older Adults; Comorbidity and Surgical Risk in Older Urologic Patients; Small Renal Masses in Older Adults; Prostate Cancer in Elderly Men: Active Surveillance and Other Considerations; Late Onset Hypogonadism and Testosterone Replacement in Elderly Men; and Contemporary Chemotherapy for Urologic Malignancies in Geriatric Patients. **Statutory Auditors' Independence in Protecting Stakeholders' Interest An Empirical Study** Springer Corporate failures and accounting scandals have shaken the foundations of investors' confidence in the transparency, integrity and accountability of corporations and financial markets. There have also been public disquiet about the role of professional auditors and audit firms, who had been associated with these corporate scandals. Written from a global perspective, the book assists in understanding the gravity of independent attitude of statutory auditors in protecting stakeholders' interest and examines the effectiveness of the existing standards and other legal and regulatory requirements in enforcing statutory auditors' independent engagement. It then suggests modifications in those regulations. The study has been made through seven chapters in order to address empirically statutory auditors' independence in protecting stakeholders' interest. Primary audiences of the book are researchers in finance and control, students, and professionals in the field of accounting and auditing. **Anesthesia for Congenital Heart Disease** John Wiley & Sons Highly Commended at the British Medical Association Book Awards 2016 The third edition of Anesthesia for Congenital Heart Disease, the recognized gold-standard reference in this field, offers a major update and expansion of the textbook to reflect the ongoing development of the practice of pediatric and congenital cardiac anesthesia and the burgeoning knowledge base in this exciting field. Includes two new chapters addressing key areas; anesthetic and sedative neurotoxicity in the patient with congenital heart disease, and anesthesia in the patient with pulmonary hypertension Now in full color, with over 200 illustrations and photographs Multiple-choice questions accompany each chapter covering the most crucial learning points to optimize the learning experience for readers at all levels