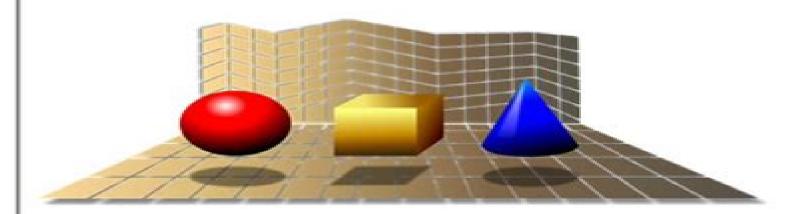
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Cesare Gargioli, Giancarlo Forte, Alberto Rainer

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Advanced Modeling and Simulation of Nuclear Reactors Jingang Liang, Qingming He, Shichang Liu, Yang Liu, Jiankai Advanced Fuzzy Logic Approaches in Engineering Science Ram, Mangey, 2018-09-14 Fuzzy logic Yu,2023-04-10 techniques have had extraordinary growth in various engineering systems. The developments in engineering sciences have caused apprehension in modern years due to high tech industrial processes with ever increasing levels of complexity Advanced Fuzzy Logic Approaches in Engineering Science provides innovative insights into a comprehensive range of soft fuzzy logic techniques applied in various fields of engineering problems like fuzzy sets theory adaptive neuro fuzzy inference system and hybrid fuzzy logic genetic algorithms belief networks in industrial and engineering settings The content within this publication represents the work of particle swarms fuzzy computing and rough sets It is a vital reference source for engineers research scientists academicians and graduate level students seeking coverage on topics centered on the applications of fuzzy logic in high tech industrial processes Applied Hierarchical Modeling in Ecology: Analysis of Distribution, Abundance and Species Richness in R and BUGS Marc Kéry, J. Andrew Royle, 2020-10-10 Applied Hierarchical Modeling in Ecology Analysis of Distribution Abundance and Species Richness in R and BUGS Volume Two Dynamic and Advanced Models provides a synthesis of the state of the art in hierarchical models for plant and animal distribution also focusing on the complex and more advanced models currently available The book explains all procedures in the context of hierarchical models that represent a unified approach to ecological research thus taking the reader from design through data collection and into analyses using a very powerful way of synthesizing data Makes ecological modeling accessible to people who are struggling to use complex or advanced modeling programs Synthesizes current ecological models and explains how they are inter connected Contains numerous examples throughout the book walking the reading through scenarios with both real and simulated data Provides an ideal resource for ecologists working in R software and in BUGS software for more flexible Bayesian analyses **Dosage Form Design Parameters**, 2018-07-25 Dosage Form Design Parameters Volume II examines the history and current state of the field within the pharmaceutical sciences presenting key developments Content includes drug development issues the scale up of formulations regulatory issues intellectual property solid state properties and polymorphism Written by experts in the field this volume in the Advances in Pharmaceutical Product Development and Research series deepens our understanding of dosage form design parameters Chapters delve into a particular aspect of this fundamental field covering principles methodologies and the technologies employed by pharmaceutical scientists In addition the book contains a comprehensive examination suitable for researchers and advanced students working in pharmaceuticals cosmetics biotechnology and related industries Examines the history and recent developments in drug dosage forms for pharmaceutical sciences Focuses on physicochemical aspects prefomulation solid state properties and polymorphism Contains extensive references for further discovery and learning that are appropriate for

advanced undergraduates graduate students and those interested in drug dosage design Thermal Radiation Heat Transfer John R. Howell, M. Pinar Mengüc, Kyle Daun, Robert Siegel, 2020-12-09 The seventh edition of this classic text outlines the fundamental physical principles of thermal radiation as well as analytical and numerical techniques for quantifying radiative transfer between surfaces and within participating media The textbook includes newly expanded sections on surface properties electromagnetic theory scattering and absorption of particles and near field radiative transfer and emphasizes the broader connections to thermodynamic principles Sections on inverse analysis and Monte Carlo methods have been enhanced and updated to reflect current research developments along with new material on manufacturing renewable energy climate change building energy efficiency and biomedical applications Features Offers full treatment of radiative transfer and radiation exchange in enclosures Covers properties of surfaces and gaseous media and radiative transfer equation development and solutions Includes expanded coverage of inverse methods electromagnetic theory Monte Carlo methods and scattering and absorption by particles Features expanded coverage of near field radiative transfer theory and applications Discusses electromagnetic wave theory and how it is applied to thermal radiation transfer This textbook is ideal for Professors and students involved in first year or advanced graduate courses modules in Radiative Heat Transfer in engineering programs In addition professional engineers scientists and researchers working in heat transfer energy engineering aerospace and nuclear technology will find this an invaluable professional resource Over 350 surface configuration factors are available online many with online calculation capability Online appendices provide information on related areas such as combustion radiation in porous media numerical methods and biographies of important figures in the history of the field A Solutions Manual is available for instructors adopting the text Functional Chitosan Sougata Jana, Subrata Jana, 2020-03-05 Thanks to their unique properties chitosan and chitosan based materials have numerous applications in the field of biomedicine especially in drug delivery This book examines biomedical applications of functional chitosan exploring the various functions and applications in the development of chitosan based biomaterials It also describes the chemical structure of chitosan and discusses the relationship between their structure and functions providing a theoretical basis for the design of biomaterials Lastly it reviews chemically modified and composite materials of chitin and chitosan derivatives for biomedical applications such as tissue engineering nanomedicine drug delivery and gene delivery

Business Innovation with New ICT in the Asia-Pacific: Case Studies Michitaka Kosaka, Jie Wu, Ke Xing, Shiyong Zhang, 2020-09-09 This book clarifies the direction of business innovation using new ICT such as the Internet of things IoT artificial intelligence AI smartphones and cloud computing through a series of case studies on successful trials and advanced businesses in the Asia Pacific where many industry sectors have been growing successfully in the 21st century ICT has been playing an important role in value creation for customers and in profit generation for providers contributing to various service innovation and business innovation Now digitalization using IoT and AI provides solutions to address various issues in

the human society which is transforming services and businesses in the 21st century What is the direction of the business innovation using new ICT is a highly concerned question for business researchers and practitioners Aiming to answer the question this book conducts a number of cases studies in the Asia Pacific region including the Mainland China Taiwan Japan Malaysia Vietnam as well as Australia Among the studies there are 4 cases from ICT providers 4 cases from traditional and services and 6 cases from new ICT applications and businesses Each case analyzes social needs and human desires new value created roles of new technologies processes and difficulties in developing new businesses the relationship among customers providers and stakeholders value chain co creation and optimization factors of success and business models Finally the direction of business innovation with new ICT in the Asia Pacific is suggested by summarizing the findings from the case studies through the lens of the theoretical analysis in service science Analysis and Design of Next-Generation Software Architectures Arthur M. Langer, 2025-05-15 The 2nd edition will add a major chapter on Generative AI in Software Architecture This chapter will provide a comprehensive background in generative models its impact on software design evolution of new analysis methodologies and the overall impact of the Systems Development Life Cycle SDLC The new edition will also have new sections relating to Generative AI in Cybersecurity analysis and design including proactive threat detection ethical issues regarding privacy and generative AI workflows Charlotte AI Other updates include Legacy System interfaces with Generative AI new impacts on project management and Platform design architecture The 2nd edition will have a number of editing changes and corrections as well as about 30 pages net of some eliminations of outdated content

Comprehensive Biomaterials II Kevin Healy, Dietmar W. Hutmacher, David W. Grainger, C. James Kirkpatrick, 2017-05-18 Comprehensive Biomaterials II Second Edition Seven Volume Set brings together the myriad facets of biomaterials into one expertly written series of edited volumes Articles address the current status of nearly all biomaterials in the field their strengths and weaknesses their future prospects appropriate analytical methods and testing device applications and performance emerging candidate materials as competitors and disruptive technologies research and development regulatory management commercial aspects and applications including medical applications Detailed coverage is given to both new and emerging areas and the latest research in more traditional areas of the field Particular attention is given to those areas in which major recent developments have taken place This new edition with 75% new or updated articles will provide biomedical scientists in industry government academia and research organizations with an accurate perspective on the field in a manner that is both accessible and thorough Reviews the current status of nearly all biomaterials in the field by analyzing their strengths and weaknesses performance and future prospects Covers all significant emerging technologies in areas such as 3D printing of tissues organs and scaffolds cell encapsulation multimodal delivery cancer vaccine biomaterial applications neural interface understanding materials used for in situ imaging and infection prevention and treatment Effectively describes the many modern aspects of biomaterials from basic science to clinical applications

Reliability of Complex Engineered Systems Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and Combining Simulations, Theory, and Experiments into Multiscale Models of reliability in various engineering areas Biological Events Fabio Trovato, Peter J. Bond, Joanna Trylska, Peter Guy Wolynes, 2022-01-11 **System Reliability and** Security Javaid Igbal, Faheem Syeed Masoodi, Ishfaq Ahmad Malik, Shozab Khurshid, Igra Saraf, Alwi M. Bamhdi, 2023-12-07 Because of the growing reliance on software concerns are growing as to how reliable a system is before it is commissioned for use how high the level of reliability is in the system and how many vulnerabilities exist in the system before its operationalization Equally pressing issues include how to secure the system from internal and external security threats that may exist in the face of resident vulnerabilities. These two problems are considered increasingly important because they necessitate the development of tools and techniques capable of analyzing dependability and security aspects of a system These concerns become more pronounced in the cases of safety critical and mission critical systems System Reliability and Security Techniques and Methodologies focuses on the use of soft computing techniques and analytical techniques in the modeling and analysis of dependable and secure systems It examines systems and applications having complex distributed or networked architectures in such fields as Nuclear energy Ground transportation systems Air traffic control Healthcare and medicine Communications System reliability engineering is a multidisciplinary field that uses computational methods for estimating or predicting the reliability aspects of a system and analyzing failure data obtained from real world projects System security is a related field that ensures that even a reliable system is secure against accidental or deliberate intrusions and is free of vulnerabilities. This book covers tools and techniques cutting edge research topics and methodologies in the areas of system reliability and security It examines prediction models and methods as well as how to secure a system as it is being developed Handbook of Basic and Clinical Ocular Pharmacology and Therapeutics Sunny Ohia, Najam Sharif, 2022-07-26 Handbook of Basic and Clinical Ocular Pharmacology and Therapeutics provides a review of the basic anatomy physiology biochemistry and pathology of the eye with a focus drug therapy drug delivery and use of therapeutic medical miniature devices An understanding of the pharmacological actions of drugs acting on the eye requires the student and health care practitioner to learn additional principles in basic and clinical sciences that are unique to this organ As a sensory organ the eye is relatively inaccessible to the systemic circulation due to the blood vitreous blood aqueous and blood retinal barriers Consequently the administration of drugs for therapeutic effects in the eye necessitates an understanding of physico chemical properties of the molecules and pharmacokinetic principles involved in the access to its site of action via

topical intracameral and intravitreal administration This book includes information on the general principles of pharmacokinetics and pharmacodynamics of drugs as it pertains to the eye and in combating ocular disorders and diseases Using a disease themed approach the book discusses basic and clinical pharmacological principles involved in the therapy of these diseases including the ocular side effect of systemically administered drugs drugs used in ophthalmic surgery and miscellaneous agents the therapeutic utility of biologics drug conjugates combination products gene and cellular therapy are also covered Handbook of Basic and Clinical Ocular Pharmacology and Therapeutics is useful as a primary and secondary source of reference for up to date information about the pharmacological mechanisms of action pharmacokinetics side effects drug drug interactions and therapeutic indications of drugs for pharmacologists pharmaceutical scientists students in the health care disciplines nursing pharmacy optometry medical and practitioners in optometry and ophthalmology Explains the mechanisms of action side effects and therapeutic uses of drugs biologics miniature devices gene and cellular therapies for the eye Provides a comprehensive review of the anatomy physiology biochemistry pharmacology microbiology genetics and pathology of parts of the eye involved in drug therapy to combat eye disorders and diseases Explores the pharmacological and clinical basis of drugs drug conjugates combination products used in the treatment of anterior and posterior segment Physico-Chemical Control of Cell Function Cesare Gargioli, Giancarlo Forte, Alberto Rainer, 2019-10-17 diseases Extracellular Matrix ECM has been considered for a long time merely a scaffold sustaining cell and tissue function Despite this simplistic view shared by many nowadays ECM and their mechanic physical and chemical characteristic acquired a progressive larger role actively regulating cell life survival proliferation gene expression and differentiation The interplay between cells and the ECM is continuously controlled at the cell level in a dynamic way While cells synthesize the raw components of the ECM this in turn impacts on cell function by providing chemical topographical and mechanical hints Such stimuli have been proven to control several aspects of cell function including survival proliferation differentiation and migration The molecular pathways activated by cells in response to the physical cues arising from the ECM are being disclosed and thus the possibility to control cell function through materials design is becoming more realistic Current in vitro protocols relying in 2D cell culture system entail reductionist approaches to the complexity of cell ECM interaction and result in cells rapidly losing their distinctive functions in culture Understanding and replicating the 3D microenvironmental cues affecting cell function appears as a mandatory requirement for the development of next generation biomaterials as well as for the establishment of more physiologically relevant and predictive in vitro models of diseases Such an effort will require a multidisciplinary approach at the convergence of biophysics biology nanotechnology and bioengineering Constitutive Models for Rubber IX Bohdana Marvalova, Iva Petrikova, 2015-10-22 The unique properties of rubber make it ideal for use in a wide variety of engineering applications such as tyres engine mounts shock absorbers flexible joints and seals Developing diverse elastomeric elements for various structures involves numerical simulations of their performance which are based on

reliable constitutive models of the mater Proceedings of the 7th International Conference on the Applications of Science and Mathematics 2021 Aida Binti Mustapha, Suhadir Shamsuddin, Syed Zuhaib Haider Rizvi, Saliza Binti Asman, Siti Suhana Jamaian, 2022-06-28 This book presents peer reviewed articles and recent advances on the potential applications of Science and Mathematics for future technologies from the 7th International Conference on the Applications of Science and Mathematics SCIEMATHIC 2021 held in Malaysia It provides an insight about the leading trends in sustainable Science and Technology The world is looking for sustainable solutions to problems more than ever The synergistic approach of mathematicians scientists and engineers has undeniable importance for future technologies With this viewpoint SCIEMATHIC 2021 has the theme Quest for Sustainable Science and Mathematics for Future Technologies The conference brings together physicists mathematicians statisticians and data scientists providing a platform to find sustainable solutions to major problems around us The works presented here are suitable for professionals and researchers globally in making the world a better and sustainable place Augmentation of Brain Function: Facts, Fiction and Controversy Ioan Opris, Manuel F. Casanova, Mikhail Lebedev, 2018-09-14 The Volume II is entitled Neurostimulation and pharmacological approaches This volume describes augmentation approaches where improvements in brain functions are achieved by modulation of brain circuits with electrical or optical stimulation or pharmacological agents Activation of brain circuits with electrical currents is a conventional approach that includes such methods as i intracortical microstimulation ICMS ii transcranial direct current stimulation tDCS and iii transcranial magnetic stimulation TMS tDCS and TMS are often regarded as noninvasive methods Yet they may induce long lasting plastic changes in the brain This is why some authors consider the term noninvasive misleading when used to describe these and other techniques such as stimulation with transcranial lasers. The volume further discusses the potential of neurostimulation as a research tool in the studies of perception cognition and behavior Additionally a notion is expressed that brain augmentation with stimulation cannot be described as a net zero sum proposition where brain resources are reallocated in such a way that gains in one function are balanced by costs elsewhere In recent years optogenetic methods have received an increased attention and several articles in Volume II cover different aspects of this technique While new optogenetic methods are being developed the classical electrical stimulation has already been utilized in many clinically relevant applications like the vestibular implant and tactile neuroprosthesis that utilizes ICMS As a peculiar usage of neurostimulation and pharmacological methods Volume II includes several articles on augmented memory Memory prostheses are a popular recent development in the stimulation based BMIs For example in a hippocampal memory prosthesis memory content is extracted from hippocampal activity using a multiple input multiple output non linear dynamical model As to the pharmacological approaches to augmenting memory and cognition the pros and cons of using nootropic drugs are discussed A Companion to Anthropological Genetics Dennis H. O'Rourke, 2019-03-19 Explore the latest research in anthropological genetics and understand the genome s role in cultural and social development A

Companion to Anthropological Genetics illustrates the role of genetic analysis in advancing the modern study of human origins populations evolution and diversity Broad in scope this essential reference work establishes and explores the relationship between genetic research and the major questions of anthropological study Through contributions by leading researchers this collection explores molecular genetics and evolutionary mechanisms in the context of macro and microevolution paleontology phylogeny diet and disease with detailed explanations of quantitative methods including coalescent and approximate Bayesian computation With an emphasis on contextualizing new and developing genetic research within anthropological frameworks this text offers critical perspective on the conditions of molecular evolution that accompany cultural and social transformation while also addressing critical disciplinary questions such as the ethical issues surrounding ancestry testing and community based genetic research Acts as an essential reference on the contributions of genetic science to the field of anthropology Features new work by leading researchers of the field Explores the evolution of immunity including the genetics and epigenetics of pathogens chronic illness and disease resistance Provides in depth examination of mutation and dietary adaptation including AMY1 lactase persistence and sensory polymorphisms Explains essential quantitative and phylogenetic methods for aligning genomic analysis with evolution and migration time scales Offering thorough coverage on leading questions and developing research A Companion to Anthropological Genetics is a comprehensive resource for students and scholars Comets III Karen J. Meech, Michael R. Combi, Dominique Bockelée-Morvan, Sean N. Raymond, Michael Zolensky, 2024-12-17 Comets III brings a comprehensive update to the latest breakthroughs in comet science over the last twenty years and showcases how recent space missions and advancements in telescopic observations have revolutionized our understanding of these celestial bodies With the contributions of more than eighty authors spanning twenty five chapters Comets III investigates the early solar system origins of comets and the clues provided by the composition and distribution of their present population for their long term dynamical evolution and interrelations with other members of the solar system Organized thematically each section is designed to enable connections across disciplinary boundaries in both planetary science and planetary formation astrophysics This comprehensive volume explores recent advancements in space missions telescopic observations and robotic surveys providing new understandings of the origins and dynamics of comets Intended for both researchers and students Comets III offers insights into unresolved questions and sets the stage for future advancements Catalog of Federal Domestic Assistance ,1969 Identifies and describes specific government assistance opportunities such as loans grants counseling and procurement contracts available under many agencies and programs

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