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Multimodal Brain Tumor Segmentation and Beyond Frontiers Media SA

This book elucidates the most recent and highly original developments in the fields of micro- and nanomechanics and the corresponding homogenization techniques that can be reliably adopted and applied in determining the local properties, as well as the linear and nonlinear effective properties of the final architecture of these complex composite structures. Specifically, this volume, divided into three main sections—Fundamentals, Modeling, and Applications—provides recent developments in the mathematical framework of micro- and nanomechanics, including Green's function and Eshelby's inclusion problem, molecular mechanics, molecular dynamics, atomistic based continuum, multiscale modeling, and highly localized phenomena such as microcracks and plasticity. It is a compilation of the most recent efforts by a group of the world's most talented and respected researchers. Ideal for graduate students in aerospace, mechanical, civil, material science, life sciences, and biomedical engineering, researchers, practicing engineers, and consultants, the book provides a unified approach in compiling micro- and nano-scale phenomena. · Elucidates recent and highly original developments in the fields of micromechanics and nanomechanics and the corresponding homogenization techniques; · Includes several new topics that are not covered in the current literature, such as micromechanics of metamaterials, electrical conductivity of CNT and graphene nanocomposites, ferroelectrics, piezoelectric, and electromagnetic materials; · Addresses highly localized phenomena such as coupled field problems, microcracks, inelasticity, dispersion of CNTs, synthesis, characterization and a number of interesting applications; · Maximizes readers' ability to apply theories of micromechanics and nanomechanics to heterogeneous solids; · Illustrates application of micro- and nanomechanical theory to design novel composite and nanocomposite materials.

Deep Pelagic Ecosystem Dynamics in a Highly Impacted Water Column: The Gulf of Mexico After Deepwater Horizon OECD Publishing

Nanotube Superfiber Materials: Science, Manufacturing, Commercialization, Second Edition, helps engineers and entrepreneurs understand the science behind the unique properties of nanotube fiber materials, how to efficiently and safely produce them, and how to transition them into commercial products. Each chapter gives an account of the basic science, manufacturing, properties and commercial potential of a specific nanotube material form and its application. New discoveries and technologies are explained, along with experiences in handing-off the improved materials to industry. This book spans nano-science, nano-manufacturing, and the commercialization of nanotube superfiber materials. As such, it opens up the vast commercial potential of nanotube superfiber materials. Applications for nanotube superfiber materials cut across most of the fields of engineering, including spacecraft, automobiles, drones, hyperloop tracks, water and air filters, infrastructure, wind energy, composites, and medicine where nanotube materials enable development of tiny machines that can work inside our bodies to diagnose and treat disease. Provides up to date information on the applications of nanotube fiber materials Explores both the manufacturing and commercialization of nanotube superfibers Sets out the processes for producing macro-scale materials from carbon nanotubes Describes the unique properties of these materials

From Experiments to Phenomenology, Modelling and Materials Engineering: [proceedings] Frontiers Media SA

The various scales of the physical phenomena occurring during plastic flow are reviewed from the atomic level to the constitutive laws, from both theoretical and experimental sides. The fundamentals of plastic flow are revisited, revealing the impact of recent experimental breakthroughs on the theoretical formulation. New developments (constrained plasticity, indentation) are also addressed. The importance of atomic scale phenomena on macroscopic mechanical behaviour are demonstrated in the case of cross-slip and its influence on fatigue properties, and in the effect of hydrogen on ductility. These developments emphasise the importance of the numerical methods used to connect the various scales and show that much remains to be done in this area. Classical fundamental problems, such as the brittle to ductile transition, are described by both experimentalists and

theoreticians, as are constrained and heterogeneous deformation.

Scientific and Technical Aerospace Reports Springer

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The Next Production Revolution Implications for Governments and Business Frontiers Media SA

This book is a snapshot of current research in multiscale modeling, computations and applications. It covers fundamental mathematical theory, numerical algorithms as well as practical computational advice for analysing single and multiphysics models containing a variety of scales in time and space. Complex fluids, porous media flow and oscillatory dynamical systems are treated in some extra depth, as well as tools like analytical and numerical homogenization, and fast multipole method.

87-0400-87-0449 John Wiley & Sons

This book contains the Proceedings of the 13th World Conference on Titanium.

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[Selected Water Resources Abstracts](#) Elsevier

The central theme of this volume is the contemporary mathematics of geometry and physics, but the work also discusses the problem of the secondary structure of proteins, and an overview of arc complexes with proposed applications to macromolecular folding is given. OC Woods Hole has played such a vital role in both my mathematical and personal life that it is a great pleasure to see the mathematical tradition of the 1964 meeting resurrected forty years later and, as this volume shows, resurrected with new vigor and hopefully on a regular basis. I therefore consider it a signal honor to have been asked to introduce this volume with a few reminiscences of that meeting forty years ago.OCO Introduction by R Bott (Wolf Prize Winner, 2000)."

Concrete Fracture Springer

Dendrimers are important molecules that are currently undergoing investigation for use in a variety of different biomedical applications. This book explores the use of dendrimers for a variety of potential functions, including antiamyloidogenic agents, drug delivery systems, nucleic acid and RNA delivery vectors and to produce hybrid fibre platforms for nantechnology. Following the work of COST action TD0802, the main objective of which is to improve existing therapies and find new drugs based on dendrimers, the book will provide comprehensive coverage of dendrimer applications. Coverage includes modelling and molecular dynamic studies of dendrimers and dendrons, anionic dendrimer polymers, cationic carbosilane dendrimers and self-assembled multivalent dendrimers. Providing clear indications for future research and applications, this text will appeal to chemists, biologists and materials scientists, working in both academia and industry.

[Advances in Carbon Research and Application: 2011 Edition](#) Springer Science & Business Media

An explosion of new techniques with vastly improved visualization and sensitivity is leading a veritable revolution in modern neuroanatomy. Basic

questions related to cell types, input localization, and connectivity are being re-visited and tackled with significantly more accurate and higher resolution experimental approaches. A major goal of this e-Book is thus to highlight in one place the impressive range of available techniques, even as these are fast becoming routine. This is not meant as a technical review, however, but rather will project the technical explosion as indicative of a field now in a vibrant state of renewal. Thus, contributions will be mainly research articles using the newer techniques. A second goal is to showcase what has become the conspicuous interdisciplinary reach of the field: neuroanatomical standards and the close association of structure-function and underlying circuitry mechanisms are increasingly relevant to investigations in development, physiology, and disease. Another feature of this Research Topic is that it includes a breadth of cross-species contributions from investigators working with rodent, nonhuman primate, and human brains. This is important since most of our current knowledge of brain structure has been obtained from experimental animals. However, recent technical advances, coupled with researcher willingness to use the human tissue available, will undoubtedly lead to major advances in the near future regarding human brain mapping and connectomes. Thus, of particular interest will be the methods that can help to define general wiring principles in the brain, both structural and functional. Overall, the state of the field is: exciting.

Woods Hole Mathematics CRC Press

Since its inception in Savannah, Georgia (USA) in 2000, the highly successful GIScience conferenceseries (www.giscience.org) has regularlyattractedover250 researchers from all over the world whose common interest lies in advancing the research frontiers of fundamental aspects of the production, dissemination, and use of geographic information. The conference is bi-annual and brings together leading researchers from all cognate disciplines reflecting the interdisciplinary breadth of GIScience, including (but not limited to) geography, cognitive science, computer science, engineering, information science, mathematics, philosophy, psychology, social science, and (geo)statistics. Following the, literally breathtaking,conference in Park City, Utah (USA) at 2103m, the sixth GIScience 2010 conference returned to Europe for the second time. The 2010 conference was held in Zurich, Switzerland, a place nominated repeatedly as the world's most livable (if not cheapest!) city. Zurich is also a GIScience landmark, as in 1990 one of the founders of the GIScience conference series, Dr. Michael Goodchild, delivered a memorable talk setting out how fundamental research on GISystems could turn into GIScience at the very same conference location during the Spatial Data Handling Symposium.

[Encyclopedia of Computational Mechanics, 6 Volume Set](#) Springer Science & Business Media

The amount of data being produced by neuroscientists is increasing rapidly, driven by advances in neuroimaging and recording techniques spanning multiple scales of resolution. The availability of such data poses significant challenges for their processing and interpretation. To gain a deeper understanding of the surrounding issues, the Editors of this e-Book reached out to an interdisciplinary community, and formed the Cortical Networks Working Group, and the genesis of this e-Book thus began with the formation of this Working Group, which was supported by the National Institute for Mathematical and Biological Synthesis in the USA. The Group consisted of scientists from neuroscience, physics, psychology and computer science, and meetings were held in person. (A detailed list of the group members is presented in the Editorial that follows.) At the time we started, in 2010, the term "big data" was hardly in existence, though the volume of data we were handling would certainly have qualified. Furthermore, there was significant interest in harnessing the power of supercomputers to perform large scale neuronal simulations, and in creating specialized hardware to mimic neural function. We realized that the various disciplines represented in our Group could and should work together to accelerate progress in Neuroscience. We searched for common threads that could define the foundation for an integrated approach to solve important problems in the field. We adopted a network-centric perspective to address these challenges, as the data are derived from structures that are themselves network-like. We proposed three inter-twined threads, consisting of measurement of neural activity, analysis of network structures deduced from this activity, and modeling of network function, leading to theoretical insights. This approach formed the foundation of our initial call for papers. When we issued the call for papers, we were not sure how many papers would fall into each of these threads. We were pleased that we found significant interest in each thread, and the number of submissions exceeded our expectations. This is an indication that the field of neuroscience is ripe for the type of integration and interchange that we had anticipated. We first published a special topics issue after we received a sufficient number of submissions. This is now being converted to an e-book to strengthen the coherence of its contributions. One of the strong themes emerging in this e-book is that network-based measures capture better the dynamics of brain processes, and provide features with greater discriminative power than point-based measures. Another theme is the importance of network oscillations and synchrony. Current research is shedding light on the principles that govern the establishment and maintenance of network oscillation states. These principles could explain why there is impaired synchronization between different brain areas in schizophrenics and Parkinson's patients. Such research could ultimately provide the foundation for an understanding of other psychiatric and neurodegenerative conditions. The chapters in this book cover these three main threads related to cortical networks. Some authors have combined two or more threads within a single chapter. We expect the availability of related work appearing in a single e-book to help our readers see the connection between different research efforts, and spur further insights and research.

Evolution, Morphology, Behavior, Biomechanics World Scientific

This book presents computer programming as a key method for solving mathematical problems. There are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses. The emphasis is on generic algorithms, clean design of programs, use of functions, and automatic tests for verification.

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The James R. Rice 60th Anniversary Volume ScholarlyEditions

To present their work in the field of micromachining, researchers from distant parts of the world have joined their efforts and contributed their ideas according to their interest and engagement. Their articles will give you the opportunity to understand the concepts of micromachining of advanced materials. Surface texturing using pico- and femto-second laser micromachining is presented, as well as the silicon-based micromachining process for

flexible electronics. You can learn about the CMOS compatible wet bulk micromachining process for MEMS applications and the physical process and plasma parameters in a radio frequency hybrid plasma system for thin-film production with ion assistance. Last but not least, study on the specific coefficient in the micromachining process and multiscale simulation of influence of surface defects on nanoindentation using quasi-continuum method provides us with an insight in modelling and the simulation of micromachining processes. The editors hope that this book will allow both professionals and readers not involved in the immediate field to understand and enjoy the topic.

A Multiscale Approach Springer

The study of fracture mechanics of concrete has developed in recent years to the point where it can be used for assessing the durability of concrete structures and for the development of new concrete materials. The last decade has seen a gradual shift of interest toward fracture studies at increasingly smaller sizes and scales. *Concrete Fracture: A*

Proceedings of a Winter Workshop at the Banff International Research Station 2009 Frontiers Media SA

*Multiscale Deformation and Fracture in Materials and Structures*The James R. Rice 60th Anniversary VolumeSpringer Science & Business Media

Nanotube Superfiber Materials Frontiers Media SA

This book stems from the American Chemical Society symposium, Large Scale Molecular Dynamics, Nanoscale, and Mesoscale Modeling and Simulation: Bridging the Gap, that delved into the latest methodologies and applications for largescale, multiscale, and mesoscale modeling and simulation. It presents real-world applications of simulated and synthesized materials, including organic-, inorganic-, bio-, and nanomaterials, and helps readers determine the best method for their simulation. It gets novices up to speed quickly and helps experienced practitioners discover novel approaches and alternatives.

Neuroanatomy for the XXIst Century BoD - Books on Demand

In August 2003, ETHZ Computational Laboratory (CoLab), together with the Swiss Center for Scientific Computing in Manno and the Universit della

Svizzera Italiana (USI), organized the Summer School in "Multiscale Modelling and Simulation" in Lugano, Switzerland. This summer school brought together experts in different disciplines to exchange ideas on how to link methodologies on different scales. Relevant examples of practical interest include: structural analysis of materials, flow through porous media, turbulent transport in high Reynolds number flows, large-scale molecular dynamic simulations, ab-initio physics and chemistry, and a multitude of others. Though multiple scale models are not new, the topic has recently taken on a new sense of urgency. A number of hybrid approaches are now created in which ideas coming from distinct disciplines or modelling approaches are unified to produce new and computationally efficient techniques

Springer Nature

This book provides students and researchers with reviews of biological questions related to the evolution of feeding by vertebrates in aquatic and terrestrial environments. Based on recent technical developments and novel conceptual approaches, the book covers functional questions on trophic behavior in nearly all vertebrate groups including jawless fishes. The book describes mechanisms and theories for understanding the relationships between feeding structure and feeding behavior. Finally, the book demonstrates the importance of adopting an integrative approach to the trophic system in order to understand evolutionary mechanisms across the biodiversity of vertebrates.

REVIEW OF 5D 2 MULTISCALE STRUCTURE AND EVOLUTION OF EARL 201

- I was very disappointed in this book. I found it to be too much touchy feely and fluffy, and too little substance. Other than trying to compare setting up a CMM program to choreographing a ballet (which didn't do it for me), I found nothing insightful about this book. I have a large CMM library that I frequently reference, but this is one book definitely collecting dust. I would recommend not wasting your money as there are far better books on the market that address the subject in far greater depth and breadth.

- This book was very interesting. I was curious to see if the author was right about my sign. Everything I read about myself was the absolute truth. Since I was convinced, I decided to try a few suggestion that were stated in the book about a guy I was dating. It worked! This book is a must read. Two thumbs up!