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Advances in the Multiphysics Analysis of Structures

Innovative Food Processing Technologies: Advances in Multiphysics Simulation. Kai Knoerzer, PhD (Editor), Pablo Juliano, PhD (Editor), Peter Roupas, PhD (Editor), Cornelis Versteeg, PhD (Editor) ISBN: 978-0-8138-1754-5. 374 pages. April 2011, Wiley-Blackwell. Read an Excerpt

~~Wiley: Innovative Food Processing Technologies: Advances ...~~
Multiphysics Simulation of Emerging Food Processing Technologies discusses how multiphysics modeling - i.e., the simulation of the entire process comprising the actual equipment, varying process conditions and the physical properties of the food to be treated - can be applied in the development, optimization and scale-up of emerging food processing technologies and shows the most recent research outcomes to demonstrate process efficiency and the impact on scalability, safety and quality.

This volume takes a much needed multiphysical approach to the numerical and experimental evaluation of the mechanical properties of MEMS and NEMS. The contributed chapters present many of the most recent developments in fields ranging from microfluids and damping to structural analysis, topology optimization and nanoscale simulations. The book responds to a growing need emerging in academia and industry to merge different areas of expertise towards a unified design and analysis of MEMS and NEMS.

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academia and industry to merge different areas of expertise towards a unified design and analysis of MEMS and NEMS.

Part of the IFT (Institute of Food Technologists) series, this book discusses multiphysics modeling and its application in the development, optimization, and scale-up of emerging food processing technologies. The book covers recent research outcomes to demonstrate process efficiency and the impact on scalability, safety, and quality, and technologies including High Pressure Processing, High Pressure Thermal Sterilization, Radiofrequency, Ultrasound, Ultraviolet, and Pulsed Electric Fields Processing. Ideal for food and process engineers, food technologists, equipment designers, microbiologists, and research and development personnel, this book covers the importance and the methods for applying multiphysics modeling for the design, development, and application of these technologies.

Multiphysics Simulations in Automotive and Aerospace Applications provides the fundamentals and latest developments on numerical methods for solving multiphysics problems, including fluid-solid interaction, fluid-structure-thermal coupling, electromagnetic-fluid-solid coupling, vibro and aeroacoustics. Chapters describe the different algorithms and numerical methods used for solving coupled problems using implicit or explicit coupling problems from industrial or academic applications. Given the book's comprehensive coverage, automotive and aerospace engineers, designers, graduate students and researchers involved in the simulation of practical coupling problems will find the book useful in its approach. Provides the fundamentals of numerical methods, along with comprehensive examples for solving coupled problems Features multi-physics methods and available codes, along with what those codes can do Presents examples from industrial and academic applications

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Advances in Multi-Physics and Multi-Scale Couplings in Geo-Environmental Mechanics reunites some of the most recent work from the French research group MeGe GDR (National Research Group on Multiscale and Multiphysics Couplings in Geo-Environmental Mechanics) on the theme of multi-scale and multiphysics modeling of geomaterials, with a special focus on micromechanical aspects. It offers readers a glimpse into the current state of scientific knowledge in the field, together with the most up-to-date tools and methods of analysis available. Each chapter represents a study with a different viewpoint, alternating between phenomenological/micro-mechanically enriched and purely micromechanical approaches. Throughout the book, contributing authors will highlight advances in geomaterials modeling, while also pointing out practical implications for engineers. Topics discussed include multi-scale modeling of cohesive-less geomaterials, including multi-physical processes, but also the effects of particle breakage, large deformations on the response of the material at the specimen scale and concrete materials, together with clays as cohesive geomaterials. The book concludes by looking at some engineering problems involving larger scales. Identifies contributions in the field of geomechanics Focuses on multi-scale linkages at small scales Presents numerical simulations by discrete elements and tools of homogenization or change of scale

Presents applied theory and advanced simulation techniques for electric machines and drives This book combines the knowledge of experts from both academia and the software industry to present theories of multiphysics simulation by design for electrical machines, power electronics, and drives. The comprehensive design approach described within supports new applications required by technologies sustaining high drive efficiency. The highlighted framework considers the electric machine at the heart of the entire electric drive. The book also emphasizes the simulation by design

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concept—a concept that frames the entire highlighted design methodology, which is described and illustrated by various advanced simulation technologies. Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives begins with the basics of electrical machine design and manufacturing tolerances. It also discusses fundamental aspects of the state of the art design process and includes examples from industrial practice. It explains FEM-based analysis techniques for electrical machine design—providing details on how it can be employed in ANSYS Maxwell software. In addition, the book covers advanced magnetic material modeling capabilities employed in numerical computation; thermal analysis; automated optimization for electric machines; and power electronics and drive systems. This valuable resource: Delivers the multi-physics know-how based on practical electric machine design methodologies Provides an extensive overview of electric machine design optimization and its integration with power electronics and drives Incorporates case studies from industrial practice and research and development projects Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives is an incredibly helpful book for design engineers, application and system engineers, and technical professionals. It will also benefit graduate engineering students with a strong interest in electric machines and drives.

Multiphysics Modelling: Materials, Components, and Systems focuses on situations where coupled phenomena involving a combination of thermal, fluid, and solid mechanics occur. Important fundamentals of the various physics that are required in multiphysics modelling are introduced and supported with practical problems. More advanced topics such as creep deformation, fatigue and fracture, multiphase flow or melting in porous media are tackled. 3D interactions in system architectures and energy systems such as batteries, reformer or fuel cells, and modelling of high-performance materials are exemplified. Important multiphysics

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modelling issues are highlighted. In addition to theory, solutions to problems, such as in linear and non-linear situations are addressed, as well as specific solutions for multiphysics modelling of fluid-solid, solid-solid and fluid-fluid interactions are given. Drawing on teaching experience, industry solutions, and the latest research, this book is the most complete guide to multiphysics modelling available for students and researchers in diverse science and engineering disciplines. Provides a thorough intro to the theory behind multiphysics modeling Covers both linear and non-linear material behaviors Helps to answer practical questions such as when to use 2D or 3D modeling

The book presents select proceedings of Global meet on Computational Modelling and Simulation, Recent Innovations, Challenges and Perspectives, 2020. This book covers leading-edge technologies from different domains such as computation in optimization and control, multiscale and multiphysics modeling and computation analysis, environmental modeling, modeling approaches to enterprise systems and services, finite element analysis, dependability and security, high-performance computation/cloud computing applications, computational biology and chemistry and computational mechanics. The primary goal of this book is to strengthen pre-eminence in computational modeling and simulation by catalyzing the transformative use of innovative developments in a wide range of disciplines to achieve lasting societal impact. The book discusses on how to perform simulation of large complex dynamic systems in an efficient manner using advanced computational analysis. The inter-disciplinary nature of the book would be a valuable reference for academicians and research scientists, industrialists interested in modelling and simulation driven by computational technology.

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This book highlights a unique combination of numerical tools and strategies for handling the challenges of multiphysics simulation, with a specific focus on electromechanical systems as the target application. Features: introduces the concept of design via simulation, along with the role of multiphysics simulation in today's engineering environment; discusses the importance of structural optimization techniques in the design and development of electromechanical systems; provides an overview of the physics commonly involved with electromechanical systems for applications such as electronics, magnetic components, RF components, actuators, and motors; reviews the governing equations for the simulation of related multiphysics problems; outlines relevant (topology and parametric size) optimization methods for electromechanical systems; describes in detail several multiphysics simulation and optimization example studies in both two and three dimensions, with sample numerical code.

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