Martin O. Steinhauser

Computational Multiscale Modeling of Fluids and Solids

Theory and Applications



Martin Steinhauser

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Computational Multiscale Modeling of Multiphase Nanosystems Theory and Applications presents a systematic description of the theory of multiscale modeling of nanotechnology applications in various fields of science and technology The problems of computing nanoscale systems at different structural scales are defined and algorithms are given for their numerical solutions by the quantum continuum mechanics molecular dynamics and mesodynamics methods Emphasis is given to the processes of the formation movement and interaction of nanoparticles the formation of nanocomposites and the processes accompanying the application of nanocomposites The book concentrates on different types of nanosystems solid liquid gaseous and multi phase consisting of various elements interacting with each other and with other elements of the nanosystem and with the environment The book includes a large number of examples of numerical modeling of nanosystems The valuable information presented here will be useful to engineers researchers and postgraduate students engaged in the design and research in the field of nanotechnology Computational and Experimental Simulations in Engineering Honghua Dai, 2022-08-23 This book gathers the latest advances innovations and applications in the field of computational engineering as presented by leading international researchers and engineers at the 27th International Conference on Computational bioengineering geotechnical engineering offshore multi scale structural integrity materials design and computer modeling methods in engineering The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations Micromechanics of Composite Materials Jacob Aboudi, Steven M. Arnold, Brett A. Bednarcyk, 2013 Summary A Generalized Multiscale Analysis Approach brings together comprehensive background information on the multiscale nature of the composite constituent material behaviour damage models and key techniques for multiscale modelling as well as presenting the findings and methods developed over a lifetime s research of three leading experts in the field The unified approach presented in the book for conducting multiscale analysis and design of conventional and smart composite materials is also applicable for structures with complete linear and nonlinear material behavior with numerous applications provided to illustrate use Modeling composite behaviour is a key challenge in research and industry when done efficiently and reliably it can save money decrease time to market with new innovations and prevent component failure **Molecular Dynamics** Alexander Vakhrushev, 2018-08-01 This book is devoted to a description of the modeling of nanosystems and a detailed exposition of the application of molecular dynamics methods to problems from various fields of technology material science the formation of composite molecular complexes and transport of nanosystems The research results of the modeling of various nanosystems are presented soft supramolecular nanostructures nanosized beams of single crystal Cu metallic nanosized crystals drug delivery systems and systems stabilized by hydrogen bonds The information from this book will be useful for engineers technologists researchers and postgraduate students interested in the study of the whole complex of computer simulation based on the concept of molecular dynamics methods for the task of designing and producing nanomaterials with controlled

properties Soft Computing in the Design and Manufacturing of Composite Materials Dragan Aleksendric, Pierpaolo Carlone, 2015-01-23 Due to problems associated with the design and manufacturing of composite materials there is a need to introduce computational and intelligent systems engineering methodology in materials engineering Soft Computing in the Design and Manufacturing of Composite Material offers an intelligent approach to advance material engineering and significantly improves the process of designing and manufacturing a new material This title includes chapters covering topics such as soft computing techniques composite materials engineering design and manufacturing of composite materials numerical modeling prediction and optimization of the composite materials performance development of the hybrid models and control of the composite material performance Introduction of soft computing in the composite materials engineering Includes accurate and detailed analysis of the current state of the art in the field Development of the intelligent models for design and manufacturing of composite material Details composite material performance prediction Optimization of the manufacturing process of composite materials

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