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Microstructural Randomness and Scaling in Mechanics of Materials



Martin Ostoja-Starzewski



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Microstructural Randomness And Scaling In Mechanics Of Materials Modern Mechanics And Mathematics

Katja Jöchen



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Microstructural Randomness and Scaling in Mechanics of Materials Martin Ostoja-Starzewski, 2007-08-13 An area at the intersection of solid mechanics materials science and stochastic mathematics mechanics of materials often necessitates a stochastic approach to grasp the effects of spatial randomness Using this approach Microstructural Randomness and Scaling in Mechanics of Materials explores numerous stochastic models and methods used in the m

Tensor-Valued Random Fields for Continuum Physics Anatoliy Malyarenko, Martin Ostoja-Starzewski, 2019 Presents a complete description of homogenous and isotropic tensor valued random fields including the problems of continuum physics mathematical tools and applications

Materials with Internal Structure Patrizia Trovalusci, 2015-10-17 The book presents a series of concise papers by researchers specialized in various fields of continuum and computational mechanics and of material science The focus is on principles and strategies for multiscale modeling and simulation of complex heterogeneous materials with periodic or random microstructure subjected to various types of mechanical thermal chemical loadings and environmental effects A wide overview of complex behavior of materials plasticity damage fracture growth etc is provided Among various approaches attention is given to advanced non classical continua modeling which provided by constitutive characterization for the internal and external actions in particular boundary conditions is a very powerful frame for the gross mechanical description of complex material behaviors able to circumvent the restrictions of classical coarse graining multiscale approaches

Architected Materials in Nature and Engineering Yuri Estrin, Yves Bréchet, John Dunlop, Peter Fratzl, 2019-03-27 This book deals with a group of architected materials These are hybrid materials in which the constituents even strongly dissimilar ones are combined in a given topology and geometry to provide otherwise conflicting properties The hybridization presented in the book occurs at various levels from the molecular to the macroscopic say sub centimeter ones This monograph represents a collection of programmatic chapters defining archimats and summarizing the results obtained by using the geometry inspired materials design The area of architected or geometry inspired materials has reached a certain level of maturity and visibility for a comprehensive presentation in book form It is written by a group of authors who are active researchers working on various aspects of architected materials Through its 14 chapters the book provides definitions and descriptions of the archetypes of architected materials and addresses the various techniques in which they can be designed optimized and manufactured It covers a broad realm of archimats from the ones occurring in nature to those that have been engineered and discusses a range of their possible applications The book provides inspiring and scientifically profound yet entertaining reading for the materials science community and beyond

Plasticity and Beyond Jörg Schröder, Klaus Hackl, 2013-09-20 The book presents the latest findings in experimental plasticity crystal plasticity phase transitions advanced mathematical modeling of finite plasticity and multi scale modeling The associated algorithmic treatment is mainly based on finite element formulations for standard local approach as well as for non standard

non local approach continua and for pure macroscopic as well as for directly coupled two scale boundary value problems Applications in the area of material design processing are covered ranging from grain boundary effects in polycrystals and phase transitions to deep drawing of multiphase steels by directly taking into account random microstructures

Homogenization of the Linear and Non-linear Mechanical Behavior of Polycrystals Katja Jöchen, 2014-05-13 This work is dedicated to the numerically efficient simulation of the material response of polycrystalline aggregates Therefore crystal plasticity is combined with a new non linear homogenization scheme which is based on piecewise constant stress polarizations with respect to a homogeneous reference medium and corresponds to a generalization of the Hashin Shtrikman scheme This mean field approach accounts for the one and two point statistics of the microstructure Advances and Challenges in Space-time Modelling of Natural Events Emilio Porcu, José-María Montero, Martin Schlather, 2012-01-05 This book arises as the natural continuation of the International Spring School Advances and Challenges in Space Time modelling of Natural Events which took place in Toledo Spain in March 2010 This Spring School above all focused on young researchers Master students PhD students and post doctoral researchers in academics extra university research and the industry who are interested in learning about recent developments new methods and applications in spatial statistics and related areas and in exchanging ideas and findings with colleagues *Advances in Mechanics of Microstructured Media and Structures* Francesco dell'Isola, Victor A. Eremeyev, Alexey Porubov, 2018-02-27 This book is an homage to the pioneering works of E. Aifantis and G. Maugin in the area of analytical description of generalized continua It presents a collection of contributions on micropolar micromorphic and strain gradient media media with internal variables metamaterials beam lattices liquid crystals and others The main focus is on wave propagation stability problems homogenization and relations between discrete and continuous models **Model-Based Tracking Control of Nonlinear Systems** Elzbieta Jarzebowska, 2016-04-19 Model Based Control of Nonlinear Systems presents model based control techniques for nonlinear constrained systems It covers constructive control design methods with an emphasis on modeling constrained systems generating dynamic control models and designing tracking control algorithms for the models The book's interdisciplinary approach illustrates *Anisotropic Elasticity* Paolo Vannucci, 2017-07-10 This book presents a modern and unconventional introduction to anisotropy The first part presents a general description of Anisotropic Elasticity theories while the second part focuses on the polar formalism the theoretical bases and results are completely developed along with applications to design problems of laminated anisotropic structures The book is based on lectures on anisotropy which have been held at Ecole Polytechnique in Paris

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