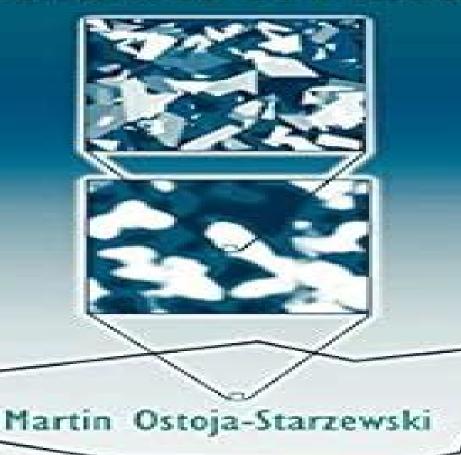
Microstructural Randomness and Scaling in Mechanics of Materials





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

Katja Jöchen

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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 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 Aero 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 illustr 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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