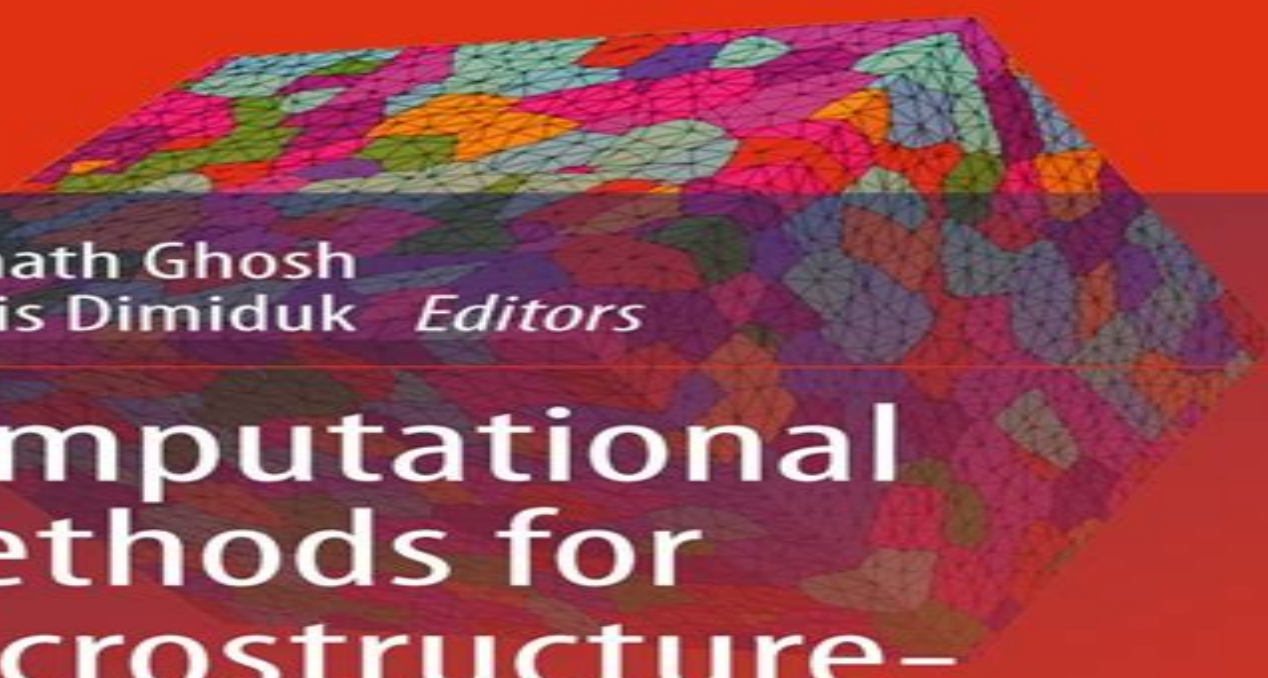




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Computational Methods for Microstructure- Property Relationships

 Springer

Computational Methods For Microstructure Property Relationships

**Yan Wang, Anh.V. Tran, David L.
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Mechanics of Dislocation Fields Claude

Fressengeas, 2017-09-25 Accompanying the present trend of engineering systems aimed at size reduction and design at microscopic nanoscopic length scales Mechanics of Dislocation Fields describes the self organization of dislocation ensembles at small length scales and its consequences on the overall mechanical behavior of crystalline bodies The account of the fundamental interactions between the dislocations and other microscopic crystal defects is based on the use of smooth field quantities and powerful tools from the mathematical theory of partial differential equations The resulting theory is able to describe the emergence of dislocation microstructures and their evolution along complex loading paths Scale transitions are performed between the properties of the dislocation ensembles and the mechanical behavior of the body Several variants of this overall scheme are examined which focus on dislocation cores electromechanical interactions of dislocations with electric charges in dielectric materials the intermittency and scale invariance of dislocation activity grain to grain interactions in polycrystals size effects on mechanical behavior and path dependence of strain hardening

Microstructure-Property Optimization in Metallic Glasses Baran Sarac, 2015-03-12 This thesis consists of an in depth study of investigating microstructure property relationships in bulk metallic glasses using a novel quantitative approach by which influence of the second phase features on mechanical properties can be independently and systematically analyzed The author evaluates and optimizes the elastic and plastic deformation as well as the overall toughness of cellular honeycombs under in plane compression and porous heterostructures under uniaxial tension The study reveals three major deformation zones in cellular metallic glass structures where deformation changes from collective buckling showing non linear elasticity to localized failure exhibiting a brittle like deformation and finally to global sudden failure with negligible plasticity as the length to thickness ratio of the ligaments increases The author found that spacing and size of the pores the pore configuration within the matrix and the overall width of the sample determines the extent of deformation where the optimized values are attained for pore diameter to spacing ratio of one with AB type pore stacking

Advances in

Heterogeneous Material Mechanics 2011 Jinghong Fan, 2011 **Fundamentals of Uncertainty Quantification for Engineers** Yan Wang, Anh.V. Tran, David L. McDowell, 2025-05-30

Fundamentals of Uncertainty Quantification for Engineers Methods and Models provides a comprehensive introduction to uncertainty quantification UQ accompanied by a wide variety of applied examples and implementation details to reinforce the concepts outlined in the book Sections start with an introduction to the history of probability theory and an overview of recent developments of UQ methods in the domains of applied mathematics and data science Major concepts of copula Monte Carlo sampling Markov chain Monte Carlo polynomial regression Gaussian process regression polynomial chaos expansion stochastic collocation Bayesian inference model form uncertainty multi fidelity modeling model validation local and global sensitivity analyses linear and nonlinear dimensionality reduction are included Advanced UQ methods are also introduced including stochastic processes stochastic differential equations random fields fractional stochastic differential equations hidden Markov model linear Gaussian state space model as well as non probabilistic methods such as robust Bayesian analysis Dempster Shafer theory imprecise probability and interval probability The book also includes example applications in multiscale modeling reliability fatigue materials design machine learning and decision making Introduces all major topics of uncertainty quantification with engineering examples and implementation details Features examples from a wide variety of science and engineering disciplines e.g. fluids structural dynamics materials manufacturing multiscale simulation Discusses sampling methods surrogate modeling stochastic expansion sensitivity analysis dimensionality reduction and more

Proceedings of the 10th International Symposium on Superalloy 718 and Derivatives Eric A. Ott, Joel Andersson, Chantal Sudbrack, Zhongnan Bi, Kevin Bockenstedt, Ian Dempster, Michael Fahrman, Paul Jablonski, Michael Kirka, Xingbo Liu, Daisuke Nagahama, Tim Smith, Martin Stockinger, Andrew Wessman, 2023-04-20 This collection explores all aspects of metallurgical processing materials behavior and microstructural performance for the distinct class of 718 type superalloys and derivatives Technical topics focus on alloy and process development production product applications trends and the development of advanced modeling tools New developments in R D new processing methods 3D printing and other nontraditional applications also are covered

Micromechanical Analysis and Multi-Scale Modeling Using the Voronoi Cell Finite Element Method Somnath Ghosh, 2011-06-23 As multi phase metal alloy systems and polymer ceramic or metal matrix composite materials are increasingly being used in industry the science and technology for these heterogeneous materials has advanced rapidly By extending analytical and numerical models engineers can analyze failure characteristics of the materials before they are integrated

Continuum Micromechanics Dazhi Jiang, 2023-03-11 The book integrates theory numerical methods and practical applications seamlessly MATLAB and MathCad programs are provided for readers to master the theory understand the approach and to further develop and apply the methods to geological problems Multiscale and multi physics investigations of Earth and planetary processes have been an active trend of research in Earth Sciences thanks to the development of

scientific computation and computer software and hardware Based on the author s research and teaching over the past 15 years the book stands alone as the first comprehensive text in unifying fundamental continuum micromechanics theory geometric kinematic analysis and applications The book should appeal to a broad audience of students and researchers particularly those in the fields of structural geology tectonics natural and experimental rock deformation mineral physics and rheology and numerical modeling of multiscale and coupling processes

Integrated Computational Materials Engineering (ICME) for Metals Mark F. Horstemeyer, 2018-02-23 Focuses entirely on demystifying the field and subject of ICME and provides step by step guidance on its industrial application via case studies This highly anticipated follow up to Mark F Horstemeyer s pedagogical book on Integrated Computational Materials Engineering ICME concepts includes engineering practice case studies related to the analysis design and use of structural metal alloys A welcome supplement to the first book which includes the theory and methods required for teaching the subject in the classroom Integrated Computational Materials Engineering ICME For Metals Concepts and Case Studies focuses on engineering applications that have occurred in industries demonstrating the ICME methodologies and aims to catalyze industrial diffusion of ICME technologies throughout the world The recent confluence of smaller desktop computers with enhanced computing power coupled with the emergence of physically based material models has created the clear trend for modeling and simulation in product design which helped create a need to integrate more knowledge into materials processing and product performance Integrated Computational Materials Engineering ICME For Metals Case Studies educates those seeking that knowledge with chapters covering Body Centered Cubic Materials Designing An Interatomic Potential For Fe C Alloys Phase Field Crystal Modeling Simulating Dislocation Plasticity in BCC Metals by Integrating Fundamental Concepts with Macroscale Models Steel Powder Metal Modeling Hexagonal Close Packed Materials Multiscale Modeling of Pure Nickel Predicting Constitutive Equations for Materials Design and more Presents case studies that connect modeling and simulation for different materials processing methods for metal alloys Demonstrates several practical engineering problems to encourage industry to employ ICME ideas Introduces a new simulation based design paradigm Provides web access to microstructure sensitive models and experimental database Integrated Computational Materials Engineering ICME For Metals Case Studies is a must have book for researchers and industry professionals aiming to comprehend and employ ICME in the design and development of new materials

Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education Lim, Hwee Ling, 2015-02-28 The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering As a direct result of these developments new trends in Materials Science and Engineering MSE pedagogy have emerged that require attention The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs Focusing on the application of instructional strategies pedagogical frameworks

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