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Microstructure Sensitive Design for Performance Optimization



Microstructure Sensitive Design For Performance Optimization

**Majid Baniassadi, Mostafa
Baghani, Yves Rémond**



Microstructure Sensitive Design For Performance Optimization:

Microstructure Sensitive Design for Performance Optimization Brent L. Adams, Surya R. Kalidindi, David T. Fullwood, 2012-12-31 The accelerating rate at which new materials are appearing and transforming the engineering world only serves to emphasize the vast potential for novel material structure and related performance Microstructure Sensitive Design for Performance Optimization MSDPO embodies a new methodology for systematic design of material microstructure to meet the requirements of design in optimal ways Intended for materials engineers and researchers in industry government and academia as well as upper level undergraduate and graduate students studying material science and engineering MSDPO provides a novel mathematical framework that facilitates a rigorous consideration of the material microstructure as a continuous design variable in the field of engineering design Presents new methods and techniques for analysis and optimum design of materials at the microstructure level Authors methodology introduces spectral approaches not available in previous texts such as the incorporation of crystallographic orientation as a variable in the design of engineered components with targeted elastic properties Numerous illustrations and examples throughout the text help readers grasp the concepts

Metallurgy and Design of Alloys with Hierarchical Microstructures Krishnan K. Sankaran, Rajiv S. Mishra, 2017-06-14 Metallurgy and Design of Alloys with Hierarchical Microstructures covers the fundamentals of processing microstructure property relationships and how multiple properties are balanced and optimized in materials with hierarchical microstructures widely used in critical applications The discussion is based principally on metallic materials used in aircraft structures however because they have sufficiently diverse microstructures the underlying principles can easily be extended to other materials systems With the increasing microstructural complexity of structural materials it is important for students academic researchers and practicing engineers to possess the knowledge of how materials are optimized and how they will behave in service The book integrates aspects of computational materials science physical metallurgy alloy design process design and structure properties relationships in a manner not done before It fills a knowledge gap in the interrelationships of multiple microstructural and deformation mechanisms by applying the concepts and tools of designing microstructures for achieving combinations of engineering properties such as strength corrosion resistance durability and damage tolerance in multi component materials used for critical structural applications Discusses the science behind the properties and performance of advanced metallic materials Provides for the efficient design of materials and processes to satisfy targeted performance in materials and structures Enables the selection and development of new alloys for specific applications based upon evaluation of their microstructure as illustrated in this work

Architecting Robust Co-Design of Materials, Products, and Manufacturing Processes Anand Balu Nellippallil, Janet K. Allen, B. P. Gautham, Amarendra K. Singh, Farrokh Mistree, 2020-06-13 This book explores systems based co design introducing a Decision Based Co Design DBCD approach for the co design of materials products and processes In recent years there have been significant advances

in modeling and simulation of material behavior from the smallest atomic scale to the macro scale However the uncertainties associated with these approaches and models across different scales need to be addressed to enable decision making resulting in designs that are robust that is relatively insensitive to uncertainties An approach that facilitates co design is needed across material product design and manufacturing processes This book describes a cloud based platform to support decisions in the design of engineered systems CB PDSIDES which feature an architecture that promotes co design through the servitization of decision making knowledge capture and use templates that allow previous solutions to be reused Placing the platform in the cloud aids mass collaboration and open innovation A valuable reference resource reference on all areas related to the design of materials products and processes the book appeals to material scientists design engineers and all those involved in the emerging interdisciplinary field of integrated computational materials engineering ICME

Computational Materials System Design Dongwon Shin,James Saal,2017-11-10 This book provides state of the art computational approaches for accelerating materials discovery synthesis and processing using thermodynamics and kinetics The authors deliver an overview of current practical computational tools for materials design in the field They describe ways to integrate thermodynamics and kinetics and how the two can supplement each other **Machine Learning in Molecular Sciences** Chen Qu,Hanchao Liu,2023-10-01 Machine learning and artificial intelligence have propelled research across various molecular science disciplines thanks to the rapid progress in computing hardware algorithms and data accumulation This book presents recent machine learning applications in the broad research field of molecular sciences Written by an international group of renowned experts this edited volume covers both the machine learning methodologies and state of the art machine learning applications in a wide range of topics in molecular sciences from electronic structure theory to nuclear dynamics of small molecules to the design and synthesis of large organic and biological molecules This book is a valuable resource for researchers and students interested in applying machine learning in the research of molecular sciences

Horizons in Materials Nicola Maria Pugno,Valeria Cannillo,Huanyang Chen,Jie-Sheng Chen,Jinn P. Chu,Liming Dai,Douglas Soares Galvao,Vincent G. Harris,Weihoa Li,Alessandro Pegoretti,John L. Provis,Guang-Ling Song,Peide Ye,2022-08-23 The Frontiers in Materials Editorial Office team are delighted to present the Horizons in Materials article collection showcasing high impact authoritative and accessible Review articles covering important topics at the forefront of the materials science and engineering field All contributing authors were nominated by the Chief Editors and Editorial Office in recognition of their prominence and influence in their respective fields The cutting edge work presented in this article collection highlights the diversity of research performed across the entire breadth of the materials science and engineering field and reflects on the latest advances in theory experiment and methodology with applications to compelling problems This Editorial features the corresponding author s of each paper published within this important collection ordered by section alphabetically highlighting them as the great researchers of the future The Frontiers in Materials Chief Editors and Editorial

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Microstructure modeling and crystal plasticity parameter identification for predicting the cyclic mechanical behavior of polycrystalline metals Kuhn, Jannick,2023-04-04 Computational homogenization permits to capture the influence of the microstructure on the cyclic mechanical behavior of polycrystalline metals In this work we investigate methods to compute Laguerre tessellations as computational cells of polycrystalline microstructures propose a new method to assign crystallographic orientations to the Laguerre cells and use Bayesian optimization to find suitable parameters for the underlying micromechanical model from macroscopic experiments

Applied Micromechanics of Complex Microstructures Majid Baniassadi,Mostafa Baghani,Yves Rémond,2023-03-02 Applied Micromechanics of Complex Microstructures explains the fundamental concepts of continuum modeling of various complicated microstructures covering nanocomposites multiphase composites biomaterials biological materials and more The authors outline the calculation of effective mechanical and thermal properties allowing readers to understand the step by step modeling and homogenization of complicated microstructures and the book also features a chapter on microstructure hull and material design Modeling of complex samples with nonlinear properties such as neural tissue bone microstructure and liver tissue is also explained and analyzed Explains the core concepts of continuum modeling of different complex microstructures including nanocomposites multiphase composites biomaterials and biological materials Provides detailed calculations of eff ective mechanical and thermal properties allowing the audience to understand the modeling and homogenization of complex microstructures Covers several methods for designing the microstructure of heterogeneous materials

Multiscale Structural Topology Optimization Liang Xia,2016-04-27 Multiscale Structural Topology Optimization discusses the development of a multiscale design framework for topology optimization of multiscale nonlinear structures With the intention to alleviate the heavy computational burden of the design framework the authors present a POD based adaptive surrogate model for the RVE solutions at the microscopic scale and make a step further towards the design of multiscale elastoviscoplastic structures Various optimization methods for structural size shape and topology designs have been developed and widely employed in engineering applications Topology optimization has been recognized as one of the most effective tools for least weight and performance design especially in aeronautics and aerospace engineering This book focuses on the simultaneous design of both macroscopic structure and microscopic materials In this model the material microstructures are optimized in response to the macroscopic solution which results in the nonlinearity of the equilibrium problem of the interface of the two scales The authors include a reduce database model from a set of numerical experiments in the space of effective strain Presents the first attempts towards topology optimization design of nonlinear highly heterogeneous structures Helps with simultaneous design of the topologies of both macroscopic structure and microscopic

materials Helps with development of computer codes for the designs of nonlinear structures and of materials with extreme constitutive properties Focuses on the simultaneous design of both macroscopic structure and microscopic materials Includes a reduce database model from a set of numerical experiments in the space of effective strain **Integrated Design of Multiscale, Multifunctional Materials and Products** David L. McDowell, Jitesh Panchal, Hae-Jin Choi, Carolyn Seepersad, Janet Allen, Farrokh Mistree, 2009-09-30 Integrated Design of Multiscale Multifunctional Materials and Products is the first of its type to consider not only design of materials but concurrent design of materials and products In other words materials are not just selected on the basis of properties but the composition and or microstructure is designed to satisfy specific ranged sets of performance requirements This book presents the motivation for pursuing concurrent design of materials and products thoroughly discussing the details of multiscale modeling and multilevel robust design and provides details of the design methods strategies along with selected examples of designing material attributes for specified system performance It is intended as a monograph to serve as a foundational reference for instructors of courses at the senior and introductory graduate level in departments of materials science and engineering mechanical engineering aerospace engineering and civil engineering who are interested in next generation systems based design of materials First of its kind to consider not only design of materials but concurrent design of materials and products Treatment of uncertainty via robust design of materials Integrates the materials by design approach of Olson Ques Tek LLC with the materials selection approach of Ashby Granta Distinguishes the processes of concurrent design of materials and products as an overall systems design problem from the field of multiscale modeling Systematic mathematical algorithms and methods are introduced for robust design of materials rather than ad hoc heuristics it is oriented towards a true systems approach to design of materials and products

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