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Advances in Heterogeneous Material Mechanics (ICHMM-2011) by Jinghong Fan, 9781605950549, available at Book Depository with free delivery worldwide.

This book offers over 400 never before published and rigorously refereed papers demonstrating the connections between nanoscale phenomena and the critical properties of dozens of engineered and natural materials—from polymer composites to human bone. Information is presented on new techniques for studying and quantifying the behavior of materials at nanoscale levels and linking this data to macroscale properties such as strength, fatigue, and failure points. The techniques include novel experiments and uses of instrumentation, as well as modeling and numerical methods. Virtually all the analyses in this book are offered here for the first time. They include information of value for materials investigators in defense, civil engineering, biomaterials, and transportation

The third book in a series on heterogeneous materials, this volume offers integrated approaches to the measurement and modeling of materials using approaches from materials science, physics, mechanics, biology and other disciplines. The volume contains 289 chapters presenting original research on the connections among the nano-, micro-, and mesoscale mechanical properties and behaviors of many different types of engineered and natural heterogeneous materials. The book contains a wealth of never published multiscale data on materials loading behaviors, plasticity, creep, damage, fracture and failure. A separate section is devoted to the design and functionalization of materials using multiscale data and techniques

This accessible text presents a unified approach of treating the microstructure and effective properties of heterogeneous media. Part I deals with the quantitative characterization of the microstructure of heterogeneous via theoretical methods; Part II treats a wide variety of effective properties of heterogeneous materials and how they are linked to the microstructure, accomplished by using rigorous methods.

Here is an accurate and timely account of micromechanics, which spans materials science, mechanical engineering, applied mathematics, technical physics, geophysics, and biology. The book features rigorous and unified theoretical methods of applied mathematics and statistical physics in the material science of microheterogeneous media. Uniquely, it offers a useful demonstration of the systematic and fundamental research of the microstructure of the wide class of heterogeneous materials of natural and synthetic nature.

Proceedings of the Second International Conference on Advanced Composite Materials and Technologies for Aerospace Applications held at Glynd

A comprehensive overview is given in this book towards a fundamental understanding of the micromechanics of the overall response and failure modes of advanced materials, such as ceramics and ceramic and other composites. These advanced materials have become the focus of systematic and extensive research in recent times. The book consists of two parts. The first part reviews solids with microdefects such as cavities, cracks, and inclusions, as well as elastic composites. To render the book self-contained, the second part focuses on the fundamentals of continuum mechanics, particularly linear elasticity which forms the basis for the development of small deformation micromechanics. In Part 1, a fundamental and general framework for quantitative, rigorous analysis of the overall response and failure modes of microstructurally heterogeneous solids is systematically developed. These expressions apply to broad classes of materials with inhomogeneities and defects. While for the most part, the general framework is set within linear elasticity, the results directly translate to heterogeneous solids with rate-dependent or rate-independent inelastic constituents. This application is specifically referred to in various chapters. The general exact correlations obtained between the overall properties and the microstructure are then used together with simple models, to develop techniques for direct quantitative evaluation of the overall response which is generally described in terms of instantaneous overall moduli or compliance. The correlations among the corresponding results for a variety of problems are examined in great detail. The bounds as well as the specific results, include new observations and original developments, as well as an in-depth account of the state of the art. Part 2 focuses on Elasticity. The section on variational methods includes some new elements which should prove useful for application to advanced modeling, as well as solutions of composites and related heterogeneous bodies. A brief modern version of elements in vector and tensor algebra is provided which is particularly tailored to provide a background for the rest of this book. The data contained in this volume as Part 1 includes new results on many basic issues in micromechanics, which will be helpful to graduate students and researchers involved with rigorous physically-based modeling of overall properties of heterogeneous solids.

Multi-material 3D Printing Technology introduces the first models for complex construction and manufacturing using a multi-material 3D printer. The book also explains the advantages that these innovative models provide at various points of the manufacturing supply chain. Innovations in fields such as medicine and aerospace are seeing 3D printing applied to problems that require the technology to develop beyond its traditional definitions. This groundbreaking book provides broad coverage of the theory behind this emerging technology, and the technical details required for readers to investigate these methods for themselves. In addition to describing new models for application of this technology, this book also systematically summarizes the historical models, materials and relevant technologies that are important in multi-material 3D printing. Introduces the heterogeneous object model for 3D printing Provides case studies of the use of hybrid 3D Printing to create gears and human bone Presents techniques which are easy to realize using commercial 3D printers