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Heterogeneous materials with macroscopically uniform microstructures may be modeled using either the concepts of statistical homogeneity based on representative volume element or periodicity based on repeating unit cell, Drago and Pindera , Fig. 1. In either case, these are the smallest possible volume elements which contain the necessary microstructural details such that the response of these ...

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Because most heterogeneous materials show a statistical rather than a deterministic arrangement of the constituents, the methods of micromechanics are typically based on the concept of the representative volume element (RVE). An RVE is understood to be a sub-volume of an inhomogeneous medium that is of sufficient size for providing all geometrical information necessary for obtaining an appropriate homogenized behavior.

~~Micromechanics—Wikipedia~~

This book provides the main theoretical and numerical tools to solve homogenization problems in solids with finite elements. It allows students without any preliminary knowledge on

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homogenization to acquire the basics and to implement the methodologies in simple programs such as Matlab.

~~Computational Homogenization of Heterogeneous Materials ...~~

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iv Given these very promising results, the generalized finite-volume theory is further extended to accommodate finite deformations of periodic materials with complex microstructur

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Micromechanics: set of techniques for predicting average (effective) response of heterogeneous materials based on the knowledge of constituent properties and geometric arrangement ??= Ceff(?-?th -?in) ÆEnabling analysis technology to: - identify and select candidate material systems - develop engineered materials with desired mechanical and

~~Recent Developments in the Micromechanics of Heterogeneous ...~~

The micromechanics of random structure heterogeneous materials is a burgeoning multidisciplinary research area which overlaps the scientific branches of materials science, mechanical engineering, applied mathematics, technical physics, geophysics, and biology. Micromechanics of Heterogeneous Materials features rigorous theoretical methods of applied mathematics and statistical physics in materials science of microheterogeneous media.

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The finite-volume direct averaging micromechanics (FVDAM) theory for periodic heterogeneous materials is extended by incorporating parametric mapping into the theory's analytical framework.

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analysis of heterogeneous materials an introduction to computational micromechanics is valuable for researchers engineers and for use in a first year graduate course for students in the applied sciences ... some basics of the mechanics of solid continua fundamental weak formulations fundamental micro macro concepts a basic finite element ...

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