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because the macroscopic behavior is greatly influenced by the internal structure of the material and must Multiscale Materials Modelling. Woodhead Publishing

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Materials with Internal Structure 2016: Multiscale and Multifield Modeling and Simulation by Patrizia Trovalusci, 9783319214931, available at Book Depository with

Study on the multi-scale properties of the

interconnection materials; interface model; internal structure; mechanical properties; multiscale properties; second order homogenization; shear loading; IEEE TERMS.

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it is essential to understand the internal structure of CNT yarns and their and density functional theory in a multiscale material model validated via

Materials multiscale modeling, dft, continuum

Multiscale modeling; Ab Infos for Materials Scientists; Basic structure These approaches are vital for successful multiscale models as they alone can

Nanosystem self-assembly pathways discovered via

3 orientation, and nanoscale internal structure of the components affect assembly in a complex fashion as they modify statistical properties of fluctuations within the

Multiscale simulation of microbe structure and

A multiscale mathematical and computational approach is developed that captures the latter are genetic material and the each of which has internal structure.

" multiscale constitutive modeling of polymer

Traditional engineering deals with treating matter as continuous with no internal structure. behavior of materials. Multiscale modeling is of great

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Free energy models for ferroelectric materials with application to rate-dependent .. posites via FEM simulation, Proceedings in Advances in Structural Engineering and Me- magneto-mechanical multifield problems, in Proc. . [5] W. F. Brown, Jr., Magnetoelastic interactions, Springer-Verlag, Tracts in Natural Philos-.

A multiscale model of thrombus development

Simulation results demonstrate the development of an inhomogeneous internal structure of the thrombus, materials, state changes within A multiscale model of

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Materials with Internal Structure Multiscale Bloggat om Materials with Internal Structure. On the effective properties of elastic materials and structures

Overcoming the limitations of distinct element

illustrate the application of the developed formalism to the study of the mechanical response (including fracture) of materials with multiscale internal structure.

Microstructure representation and material

mechanical behavior in damaged metallic structures. representation and material characterization for multiscale finite element simulations of local

Micro-macro quantification of the internal

Document type: Journal Paper: Errata: (See full record) Abstract: We have attempted a multiscale quantification of the internal structure of granular materials.

Multiscale model. simul c

tems possess an internal multiscale nature dictated by Having identified the internal structure of Examples from systems biology, materials