



Introduction To Micromechanics And Nanomechanics

Shaofan Li, Gang Wang

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This book provides both the theoretical foundation, as well as the authors' latest contributions to micromechanics and its applications in nanomechanics, nanocomposites, dislocation and thin film theories, and configurational mechanics theory.

It serves primarily as a graduate level textbook, intended for first year graduate students in materials science, applied computational mechanics, nano-science and technology, and mechanical engineering. This book also serves as a research monograph by compiling recent developments in dislocation dynamics, numerical simulations of material failure, and homogenization theories.

Contents: Introduction; Green's Function and Fourier Transform; Micromechanical Homogenization Theory; Effective Elastic Modulus; Comparison Variational Principles; Eshelby Tensors in a Finite Volume and Their Applications; Micromechanical Damage Theory; Introduction of Dislocation Theory; Introduction to Configurational Mechanics; Small Scale Coarse-Grained Models; Periodic Microstructure and Asymptotic Homogenization.

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