



Mechanics of Advanced Functional Materials(Chinese Edition)

By WANG BIAO

Hardcover. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.HardCover. Pub Date: 2012 Pages: 528 Language: Chinese in Publisher: Zhejiang University Press This book is an attempt to tackle mainly the followingtwo proplems: (1) to analyze the effect of stress and deformation of materials on the functionalproperties of the . and (2) to establish the quantitative models relatedwith the microstructural evolution. The general formulation will be developedfrom the detailed analyses of the separated examples.Contents: 1 Introduction2 Basic Solutio of Elastic and Electric Fields of Piezoelectric Materialswith Inclusio and Defects2.1 The Coupled Differential Equatio of Elastic and Electric Fields in Piezoelectric Solids2.1.1 Thermodynamic Framework2.1.2 Linear Co titutive Equatio 2.1.3 The Equation of Equilibrium2.1.4 The Basic Equatio of a Static Electric Field2.1.5 Differential Equatio for Piezoelectric Materials2.2 Boundary Conditio 2.3 Solution Methods for Two-Dime ional Problems2.3.1 The Stroh Formalism for Piezoelectric Materials2.3.2 The Lekhnitskii Formalism for Piezoelectric Materials2.3.3 Conformal Tra formation of the Core Function2.4 Basic Solutio for Two-Dime ional Problems2.4.1 Elliptical Cylindrical Inclusio in Piezoelectric Materials2.4.2 Cracks2.4.3 Dislocatio and Line Charges2.5 Solution Methods for Three-Dime ional Problems2.5.1 Eige trai and Equivalent Inclusion Method2.5.2 Method of Fourier Integrals2.5.3 Method of...



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