



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 following two proplems: (1) to analyze the effect of stress and deformation of materials on the functional properties of the . and (2) to establish the quantitative models related with the microstructural evolution. The general formulation will be developed from the detailed analyses of the separated examples. Contents: 1 Introduction 2 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 Equliium 2.1.4 The Basic Equatio of a Static Electric Field 2.1.5 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 Materials 2.3.3 Conformal Tra formation of the Core Function 2.4 Basic Solutio for Two-Dime ional Problems2.4.1 Elliptical Cylindrical Inclusio in Piezoelectric Materials2.4.2 Cracks2.4.3 Dislocatio and Line Charges 2.5 Solution Methods for Three-Dime ional Problems 2.5.1 Eige trai and Equivalent Inclusion Method2.5.2 Method of Fourier Integrals2.5.3 Method of...



Reviews

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