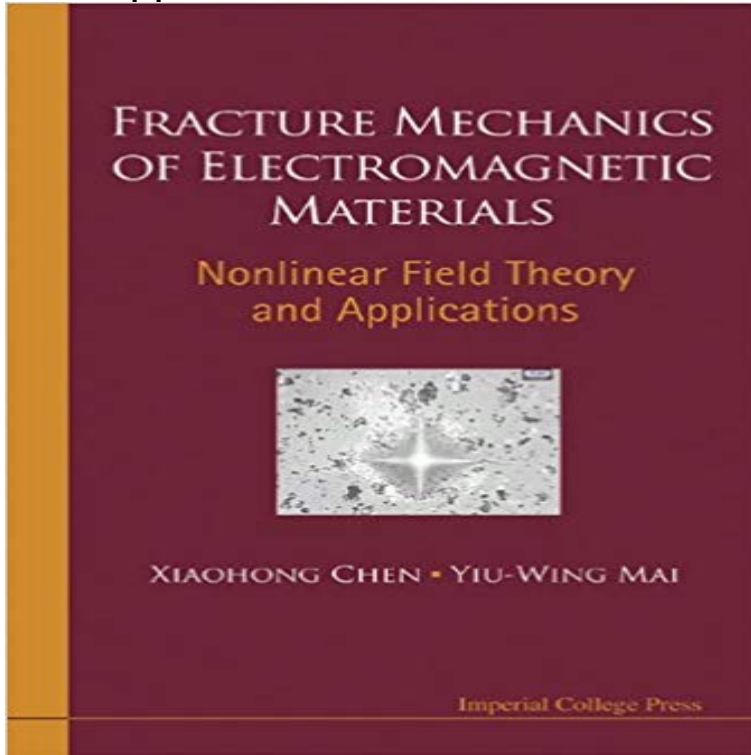


Fracture Mechanics of Electromagnetic Materials:Nonlinear Field Theory and Applications



Fracture Mechanics of Electromagnetic Materials provides a comprehensive overview of fracture mechanics of conservative and dissipative materials, as well as a general formulation of nonlinear field theory of fracture mechanics and a rigorous treatment of dynamic crack problems involving coupled magnetic, electric, thermal and mechanical field quantities. Thorough emphasis is placed on the physical interpretation of fundamental concepts, development of theoretical models and exploration of their applications to fracture characterization in the presence of magneto-electro-thermo-mechanical coupling and dissipative effects. Mechanical, aeronautical, civil, biomedical, electrical and electronic engineers interested in application of the principles of fracture mechanics to design analysis and durability evaluation of smart structures and devices will find this book an invaluable resource.

Contents: Fundamentals of Fracture Mechanics Elements of Electrodynamics of Continua Introduction to Thermo-viscoelasticity Overview on Fracture of Electromagnetic Materials Crack Driving Force in Electro-Thermo-Elastodynamic Fracture Dynamic Fracture Mechanics of Magneto-Electro-Thermo-Elastic Solids Dynamic Crack Propagation in Magneto-Electro-Elastic Solids Fracture of Functionally Graded Materials Magneto-Thermo-Viscoelastic Deformation and Fracture Electro-Thermo-Viscoelastic Deformation and Fracture Nonlinear Field Theory of Fracture Mechanics for Paramagnetic and Ferromagnetic Materials Nonlinear Field Theory of Fracture Mechanics for Piezoelectric and Ferroelectric Materials Applications to Fracture Characterization

Readership: Graduate students, academic researchers

and engineering specialists in fracture mechanics.

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