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Nota di contenuto	<p>Cover; Title Page; Copyright; Contents; About the Author; Preface; Acknowledgments; Chapter 1 Introduction; References; Chapter 2 Conducting Material Systems and Structures; 2.1 Basic Equations of Dynamic Magnetoelasticity; 2.2 Magnetoelastic Plate Vibrations and Waves; 2.2.1 Classical Plate Bending Theory; 2.2.2 Mindlin's Theory of Plate Bending; 2.2.3 Classical Plate Bending Solutions; 2.2.4 Mindlin Plate Bending Solutions; 2.2.5 Plane Strain Plate Solutions; 2.3 Dynamic Magnetoelastic Crack Mechanics; 2.4 Cracked Materials Under Electromagnetic Force; 2.5 Summary; References</p> <p>Chapter 3 Dielectric/Ferroelectric Material Systems and Structures 3.1 Basic Equations of Electroelasticity; 3.2 Static Electroelastic Crack Mechanics; 3.2.1 Infinite Dielectric Materials; 3.2.2 Dielectric Strip; 3.3 Electroelastic Vibrations and Waves; 3.4 Dynamic Electroelastic Crack Mechanics; 3.5 Summary; 3.6 Piezomechanics and Basic Equations; 3.6.1 Linear Theory; 3.6.2 Model of Polarization Switching; 3.6.3 Model of Domain Wall Motion; 3.6.4 Classical Lamination Theory; 3.7 Bending of Piezoelectric Laminates; 3.7.1 Bimorphs; 3.7.2 Functionally Graded Bimorphs; 3.7.3 Laminated Plates</p> <p>3.8 Electromechanical Field Concentrations 3.8.1 Laminates; 3.8.2 Disk Composites; 3.8.3 Fiber Composites; 3.8.4 MEMS Mirrors; 3.9 Cryogenic and High-Temperature Electromechanical Responses; 3.9.1 Cryogenic Electromechanical Response; 3.9.2 High-Temperature Electromechanical Response; 3.10 Electric Fracture and Fatigue; 3.10.1 Fracture Mechanics Parameters; 3.10.2 Cracked Rectangular Piezoelectric Material; 3.10.3 Indentation Fracture Test; 3.10.4 Modified Small Punch Test; 3.10.5 Single-Edge Pre-cracked Beam Test; 3.10.6 Double Torsion Test; 3.10.7 Fatigue of SEPB Specimens; 3.11 Summary</p> <p>References</p> <p>Chapter 4 Ferromagnetic Material Systems and Structures; 4.1 Basic Equations of Magnetoelasticity; 4.1.1 Soft Ferromagnetic Materials; 4.1.2 Magnetically Saturated Materials; 4.1.3 Electromagnetic Materials; 4.2 Magnetoelastic Instability; 4.2.1 Buckling of Soft Ferromagnetic Material; 4.2.2 Buckling of Magnetically Saturated Material; 4.2.3 Bending of Soft Ferromagnetic Material; 4.3 Magnetoelastic Vibrations and Waves; 4.3.1 Vibrations and Waves of Soft Ferromagnetic Material; 4.3.2 Vibrations and Waves of Magnetically Saturated Material; 4.4 Magnetic Moment Intensity Factor</p> <p>4.4.1 Simply Supported Plate Under Static Bending 4.4.2 Fixed-End Plate Under Static Bending; 4.4.3 Infinite Plate Under Dynamic Bending; 4.5 Tensile Fracture and Fatigue; 4.5.1 Cracked Rectangular Soft Ferromagnetic Material; 4.5.2 Fracture Test; 4.5.3 Fatigue Crack Growth Test; 4.6 Summary; 4.7 Basic Equations of Magnetostriction; 4.8 Nonlinear Magneto-Mechanical Response; 4.8.1 Terfenol-D/Metal Laminates; 4.8.2 Terfenol-D/PZT Laminates; 4.9 Magnetolectric Response; 4.10 Summary; References; Index; EULA</p>