



Electromagnetic Theory

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Wiley-IEEE Press, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PrefaceCHAPTER I: THE FIELD EQUATIONS.MAXWELL'S EQUATIONS.1.1 The Field Vectors.1.2 Charge and Current.1.3 Divergence of the Field Vectors.1.4 Integral Form of the Field Equations.MACROSCOPIC PROPERTIES OF MATTER.1.5 The Inductive Capacities c and p.1.6 Electric and Magnetic Polarization.1.7 Conducting Media.UNITS AND DIMENSIONS.1.8 M.K.S. or Giorgi System.THE ELECTROMAGNETIC POTENTIALS.1.9 Vector and Scalar Potentials.1.10 Conducting Media.1.11 Hertz Vectors, or Polarization Potentials.1.12 Complex Field Vectors and Potentials.BOUNDARY CONDITIONS.1.13 Discontinuities in the Field Vectors.COORDINATE SYSTEMS.1.14 Unitary and Reciprocal Vectors.1.15 Differential Operators.1.16 Orthogonal Systems.1.17 Field Equations in General Orthogonal Coordinates.1.18 Properties of Some Elementary Systems.THE FIELD SENSORS.1.19 Orthogonal Transformations and Their Invariants.1.20 Elements of Tensor Analysis.1.21 Space-time Symmetry of the Field Equations.1.22 The Lorentz Transformation.1.23 Transformation of the Field Vectors to Moving Systems.CHAPTER II: STRESS AND ENERGY.STRESS AND STRAIN IN ELASTIC MEDIA.2.1 Elastic Stress Tensor.2.2 Analysis of Strain.2.3 Elastic Energy and the Relations of Stress to Strain.ELECTROMAGNETIC FORCES ON CHARGES AND CURRENTS.2.4 Definition of the Vectors E and B.2.5 Electromagnetic Stress Tensor in Free Space.2.6 Electromagnetic Momentum.2.7 Electrostatic Energy as a Function of Charge Density.2.8 Electrostatic Energy as a Function of Field Intensity.2 3 A Theorem on Vector Fields.2.10



Reviews

The book is fantastic and great. It is loaded with knowledge and wisdom You are going to like the way the article writer create this ebook.

-- Amaya King

It is straightforward in read through better to fully grasp. I really could comprehended everything out of this composed e publication. Your way of life period will likely be transform when you full reading this article publication.

-- Merl Jaskolski II