



Electromagnetic Theory

By Stratton, Julius Adams

Wiley-IEEE Press, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface CHAPTER 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. 2.9 A Theorem on Vector Fields. 2.10

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