Maxwell s Equations (Hardback)

By Paul G. Huray

John Wiley and Sons Ltd, United States, 2009. Hardback. Book Condition: New. 236 x 160 mm. Language: English . Brand New Book. An authoritative view of Maxwell s Equations that takes theory to practice Maxwell s Equations is a practical guide to one of the most remarkable sets of equations ever devised. Professor Paul Huray presents techniques that show the reader how to obtain analytic solutions for Maxwell s equations for ideal materials and boundary conditions. These solutions are then used as a benchmark for solving real-world problems. Coverage includes: An historical overview of electromagnetic concepts before Maxwell and how we define fundamental units and universal constants today A review of vector analysis and vector operations of scalar, vector, and tensor products Electrostatic fields and the interaction of those fields with dielectric materials and good conductors A method for solving electrostatic problems through the use of Poisson s and Laplace s equations and Green s function Electrical resistance and power dissipation; superconductivity from an experimental perspective; and the equation of continuity An introduction to magnetism from the experimental inverse square of the Biot-Savart law so that Maxwell s magnetic flux equations can be deduced Maxwell s Equations serves as an...

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