



Maxwell's Equations

Paul G. Huray

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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 ideal textbook for undergraduate students in junior/senior electromagnetics courses and graduate students, as well as a resource for electrical engineers.

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