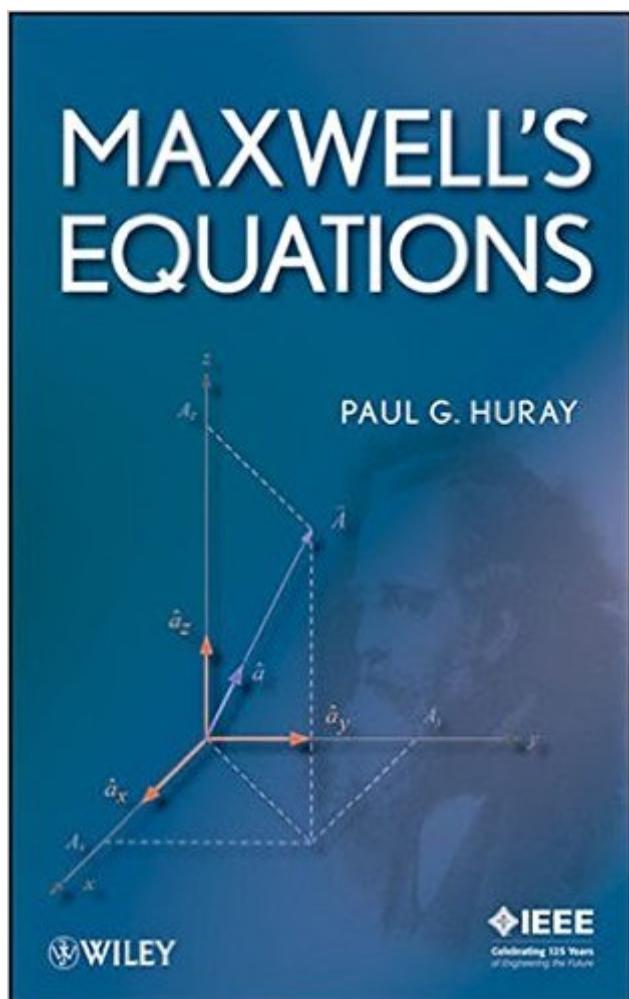


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# Maxwell's Equations



## Synopsis

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.

## Book Information

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## Customer Reviews

The book is highly detailed on most of the math involved with Maxwell's equations. However, this doesn't seem to be a decent book for most undergraduate students to reference. The math is advanced, it requires previous knowledge of the topic, and on a few parts, the author seems to

stumble on about how students fail to understand various aspects of this topic that are not really covered in detail in the book. In short, if you are a postdoc/phd student who needs reference material on electromagnetics, this book is for you. If you are a undergraduate student looking for a basic tutorial on electromagnetics, this book is not likely for you.

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