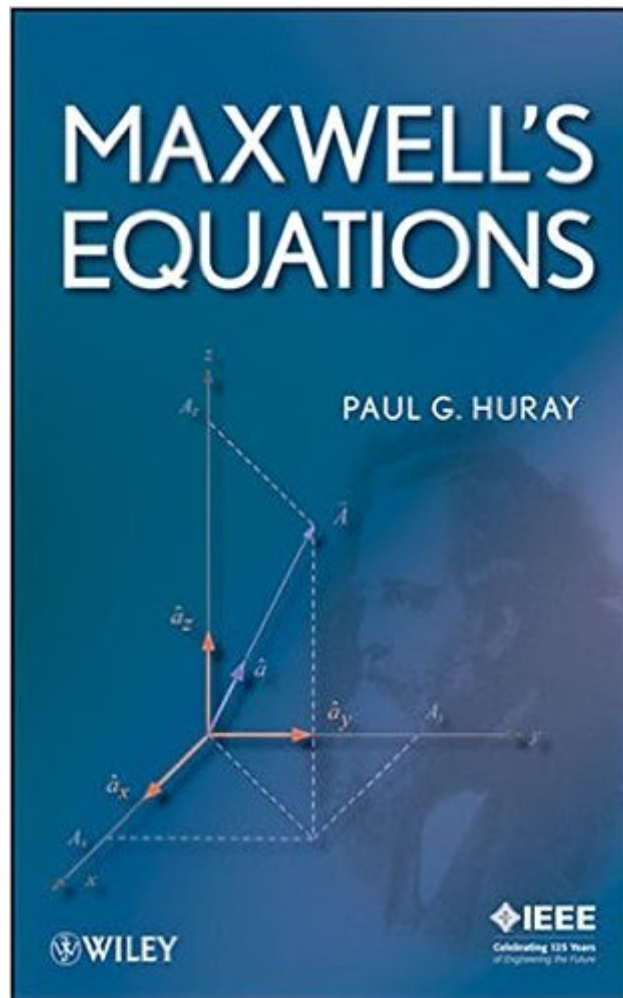


The book was found

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

Hardcover: 312 pages

Publisher: Wiley-IEEE Press; 1 edition (November 16, 2009)

Language: English

ISBN-10: 0470542764

ISBN-13: 978-0470542767

Product Dimensions: 6.3 x 0.8 x 9.6 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #1,133,443 in Books (See Top 100 in Books) #226 in Books > Science & Math > Physics > Waves & Wave Mechanics #553 in Books > Science & Math > Mathematics > Applied > Differential Equations #10535 in Books > Textbooks > Science & Mathematics > Mathematics

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.

[Download to continue reading...](#)

Maxwell's Equations Without the Calculus Maxwell's Equations Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations (Improve Your Math Fluency Series) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Fundamentals of Differential Equations and Boundary Value Problems (6th Edition) (Featured Titles for Differential Equations) Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGE'S EQUATIONS, HAMILTON'S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Dare to Dance (The Maxwell Series Book 4) Dare to Kiss (The Maxwell Series Book 1) La Biblia de liderazgo de Maxwell (Spanish Edition) Hour Game (King & Maxwell Series Book 2) First Family (King & Maxwell Series Book 4) Split Second (King & Maxwell Series Book 1) Understanding Polymer Processing: Processes and Governing Equations Vectors, Tensors and the Basic Equations of Fluid Mechanics (Dover Books on Mathematics) RF Design Guide Systems, Circuits and Equations (Artech House Antennas and Propagation Library) Radar Equations for Modern Radar (Artech House Radar)

[Dmca](#)