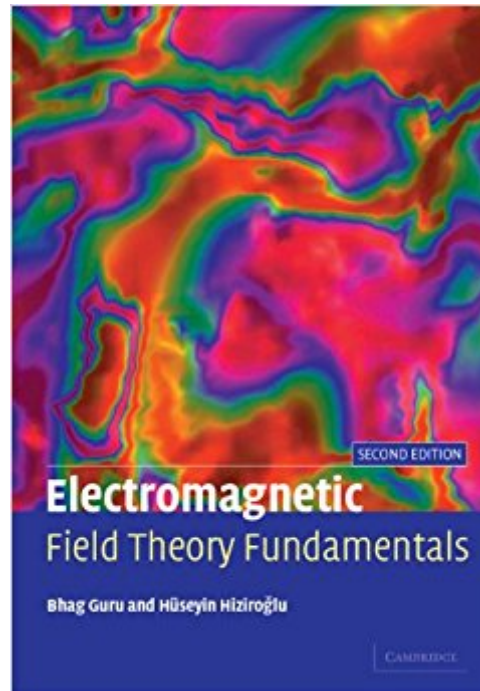




**Ebook Directory**  
the best source of ebook

The book was found

# Electromagnetic Field Theory Fundamentals



## Synopsis

Guru and Hizirolu have produced an accessible and user-friendly text on electromagnetics that will appeal to both students and professors teaching this course. This lively book includes many worked examples and problems in every chapter, as well as chapter summaries and background revision material where appropriate. The book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields, before moving on to cover Maxwell's equations, propagation, transmission and radiation. Chapters on the Finite Element and Finite Difference method, and a detailed appendix on the Smith chart are additional enhancements. MathCad code for many examples in the book and a comprehensive solutions set are available at [www.cambridge.org/9780521830164](http://www.cambridge.org/9780521830164).

## Book Information

Hardcover: 698 pages

Publisher: Cambridge University Press; 2 edition (August 30, 2004)

Language: English

ISBN-10: 0521830168

ISBN-13: 978-0521830164

Product Dimensions: 6.8 x 1.5 x 9.7 inches

Shipping Weight: 3.6 pounds

Average Customer Review: 5.0 out of 5 stars 4 customer reviews

Best Sellers Rank: #672,181 in Books (See Top 100 in Books) #137 in Books > Science & Math > Physics > Waves & Wave Mechanics #469 in Books > Science & Math > Physics > Electromagnetism #3244 in Books > Engineering & Transportation > Engineering > Electrical & Electronics

## Customer Reviews

"... a comprehensive account of electromagnetic theory for undergraduate physics and electronics engineering students. Its key feature is that the physics is developed assuming that the student is thoroughly familiar with all of the vector analysis." Dr T. A. Birks, Contemporary Physics

Guru and Hizirolu have produced a user-friendly undergraduate text on electromagnetics that will appeal to both students and professors. Includes examples and problems throughout and background revision material where appropriate. MathCad code for many examples in the book and a comprehensive solutions set are available at [www.cambridge.org/9780521830164](http://www.cambridge.org/9780521830164).

This review applies to the first edition. It contains very broad and moderately deep coverage of the subject. This is probably around a junior-level book -- the reader should have a working knowledge of differential and integral calculus, vector calculus, etc. The introduction is interesting in that it starts with basic measurements: mass, distance, time, charge, etc. -- and quickly and concisely develops the math and physics background needed for the remainder of the book. These first 60 pages can't really prepare the uninitiated (and hence it isn't a beginner's book), but it can serve as a checklist for familiarity with prerequisite areas before delving into the main subject (for example, it may suggest that the Div, Grad, and Curl book might be handy). The same coverage of electromagnetics can be found in many books -- this one just seems a bit more thoughtful and deliberate than many. I purchased this as a used book, and in that form is a very good value.

I really like and appreciate the approach this author has taken. The "easy" way is to toss Maxwell's equations at the reader then explaining everything in terms of them. This is backwards. The reader has to have some clue as to where Maxwell's equations came from. This book does exactly that. Well worth the investment.

good

Makes an otherwise complex subject seem simple by the way it is presented. I found it to be an exceptionally well written text, and would encourage anyone who is interested in the subject to buy it. A great book!

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

Electromagnetic Wave Propagation, Radiation, and Scattering: From Fundamentals to Applications (IEEE Press Series on Electromagnetic Wave Theory) Causality, Electromagnetic Induction, and Gravitation: A Different Approach to the Theory of Electromagnetic and Gravitational Fields, 2nd edition EMP: Electromagnetic Pulse. Protect Your Family and Survive Long After the EMP (Prepping, Survival, Homesteading, Preparedness, EMP, Electromagnetic pulse) Electromagnetic Field Theory Fundamentals Faraday, Maxwell, and the Electromagnetic Field: How Two Men Revolutionized Physics Electromagnetic Theory: Volume 2 Inverse Acoustic and Electromagnetic Scattering Theory (Applied Mathematical Sciences) Foundations of Electromagnetic Theory (4th Edition) Principles of Optics: Electromagnetic Theory of Propagation, Interference and Diffraction of Light Theory and Computation of Electromagnetic Fields (Wiley - IEEE) Interactions Between

Electromagnetic Fields and Cells (Applications of Communications Theory) Plastic Injection Molding: Product Design & Material Selection Fundamentals (Vol II: Fundamentals of Injection Molding) (Fundamentals of injection molding series) Plastic Injection Molding: Mold Design and Construction Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding series) Field Guide to Binoculars and Scopes (SPIE Field Guide Vol. FG19) (Apie Field Guides) A Field Guide to Western Reptiles and Amphibians: Field marks of all species in western North America, including Baja California (Peterson Field Guides(R)) Radiation Nation: Fallout of Modern Technology - Your Complete Guide to EMF Protection & Safety: The Proven Health Risks of Electromagnetic Radiation (EMF) & What to Do Protect Yourself & Family EMP: Electromagnetic Pulse: Prepping for Tomorrow Series Automotive Electromagnetic Compatibility (EMC) EMP: Electromagnetic Pulse (Prepping For Tomorrow Book 1) Overpowered: The Dangers of Electromagnetic Radiation (EMF) and What You Can Do about It

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)