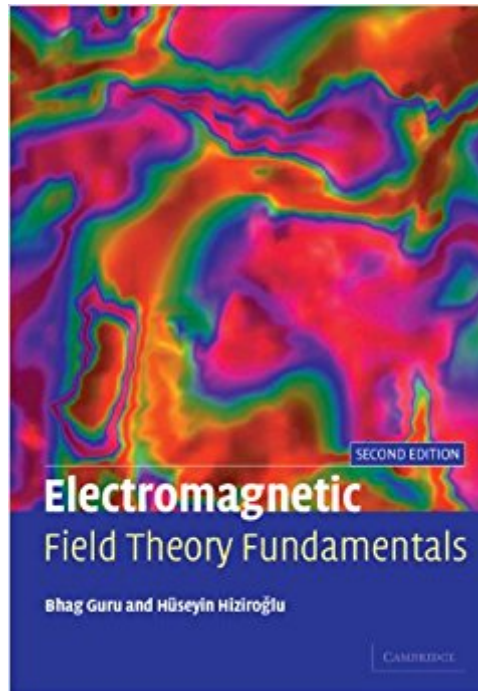




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Electromagnetic Field Theory Fundamentals



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.

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.

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!

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