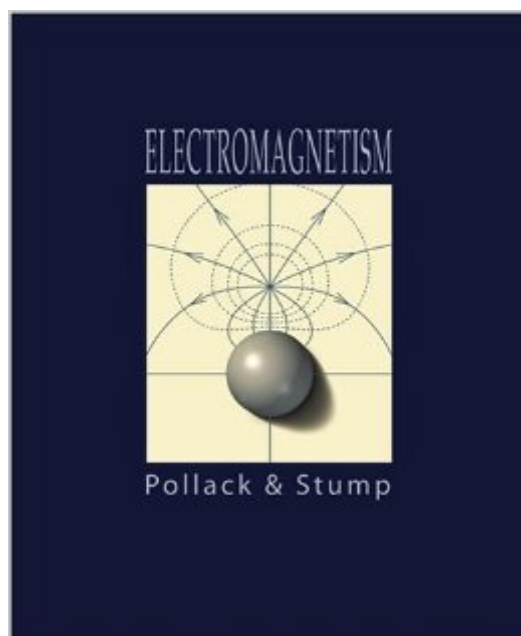


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# Electromagnetism



## Synopsis

Electromagnetism sets a new standard in physics education. Throughout the book, the theory is illustrated with real-life applications in modern technology. It also includes detailed work examples and step-by-step explanations to help readers develop their problem-solving strategies and skills and consolidate their understanding. In addition to a meticulous development of these traditional, analytical mathematical approaches, readers are also introduced to a range of techniques required for solving problems using computers. Electromagnetism provides an ideal preparation for readers who plan advanced studies in electrodynamics as well as those moving into industry or engineering.

## Book Information

Paperback: 680 pages

Publisher: Addison-Wesley; 1 edition (October 12, 2001)

Language: English

ISBN-10: 0335385672

ISBN-13: 978-0805385670

ASIN: 0805385673

Product Dimensions: 7.5 x 1.4 x 9.1 inches

Shipping Weight: 1.8 pounds

Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (7 customer reviews)

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## Customer Reviews

I used this book for my senior level electromagnetics course. I hated it at first, but only because of how thoroughly challenging it was. By the time I had made it through the courses, I had developed a deep understanding of principles in electrostatics, magnetostatics, and basic principles of electrodynamics. I highly recommend this book as it is much more thorough than Griffiths and serves as a challenging book that will greatly reward you by the time you've worked through it.

This book is not worth \$7.-- As an example, go to page 75, dealing with Multipole Expansion. There is not 1 drawing on the page. There is no physical justification for the mathematics given. The derivation is incomplete and of low quality. Important pedagogical and logical steps necessary to

understand that subject are simply missing. I paid \$70 for the used book that is not worth more than \$7.--Griffiths, David J is worth 100 times more for self study.

I love this book, and I don't really like electromagnetism. Pollack and Stump use an easily understood writing style that is concise, thorough, and occasionally witty. Their use of extensive examples is great for the visual learner. This book covers a full academic year's worth of advanced electricity and magnetism courses.

The authors achieved a very interesting balance between the mathematical level and the introductory nature of the book (if you don't already master the math, you will have to learn it in order to understand the text... which is good). It has a good number of worked out examples, and the problems are challenging without being unsolvable. One characteristic of these is that they require a good comprehension of the material and therefore, you will not go on to the next chapter without learning the material (hopefully). The structure of the book is pretty much standard. Mathematically, the book is not self-contained, but that does not affect my rating because it is not intended to be. With a good foundation (or book) in vector calculus and maybe a more elementary book in E&M (Griffiths? Yeah, I agree with a previous reviewer that it might be an expensive proposition), you will be more than ready to learn E&M.

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