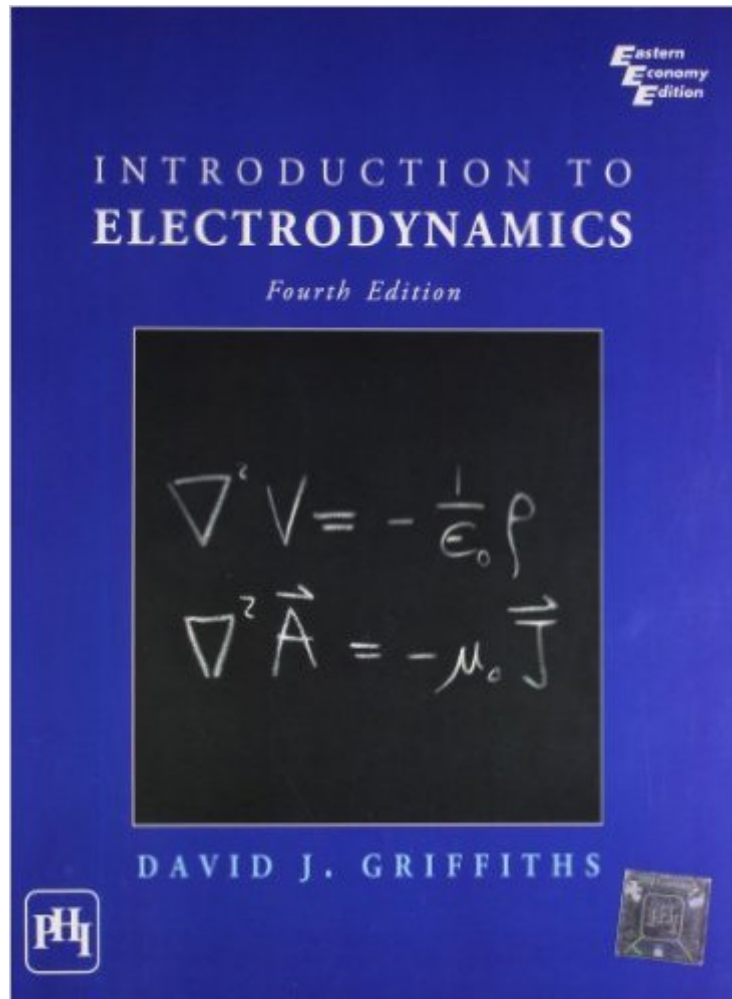


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Introduction To Electrodynamics, 4th Edition



Synopsis

this is SOLUTIONS of Griffiths Electrodynamics.

Book Information

Paperback: 628 pages

Publisher: PHIL; 4th edition (2012)

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Average Customer Review: 4.1 out of 5 stars Â See all reviews Â (107 customer reviews)

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Physics > Electromagnetism > Magnetism #6 in Â Books > Science & Math > Physics >

Electromagnetism > Electricity

Customer Reviews

Looks like this edition has been refreshed. So far the price is ~\$13 cheaper than the previous edition. Here's a list of changes: [...]New To This Edition*Edits to the entire text have clarified arguments and eliminated ambiguities.*New problems and new worked examples appear throughout, while selected unsuccessful ones have been eliminated.*All 450 figures have been reviewed for accuracy and updated where necessary.*A new section on magnetic work helps to eliminate teachers' misconception that magnetic forces do not work. The new section fully explores the actual mechanism in cases where magnetic forces are actually working.*Erroneous passages have been corrected. In particular, misleading copy (specifically the treatment of "hidden momentum") has been fixed.*Citations of recent literature appear throughout for those who wish to pursue a particular topic in greater depth. This literature helps reinforce the point that electrodynamics is a vibrant and dynamic field, even after 150 years.The book is easy to follow, it presents the subject matter in a well formatted fashion.

UPDATE I am continuing to use the book in winter term for the second term of E&M. Lots of pages have now fallen out and you can see the notches on each page in most parts of the book. Terrible, terrible, terrible. Awful quality. Buy the paperback version at least--though I have seen pages coming out on that one too. Better yet, buy the e book. unfortunately I like having a physical

book...-original review-The content is good, and fairly well organized. I didn't ever struggle to learn from the text and use lecture as supplement. But as others have said, the physicality of the book is terrible. I have the standard hardcover version and have only been using it since late September (it's December now). The spine crackles incessantly and loudly when the book is moved about, and the glue seems to weakly hold the pages--a huge section in chapter 4 of my text is falling out and one page is fully detached already. It wasn't like this at the start of the term, so I think carrying the book in my backpack caused damage. If you buy the hardcover, don't carry the book around. Just download a copy from the internet and keep that on your phone or tablet or whatever. If you need to buy this book for a class (let's face it, who doesn't?), buy the paperback version if you can.

I am reading this alongside the text by Ohanian and this is a bit lower level. The explanations of how to do problems are much better but Ohanian is far superior at explaining what is going on physically and mathematically. This book is good to have because Ohanian uses CGS units so if I have a need for an equation in MKS I can pull it out of this book already having understood the material I learned in Ohanian. I would say use both in tandem.

Didn't see anything on the products info, but this international edition does not include the Preface, the Advertisement, or Appendix A (these sections are, however, included in the U.S. version of the book). Although this may seem detrimental, it isn't a very big deal. The first two sections mentioned aren't essential for learning the material.

The book itself is pretty good. Still misses little important things like uniqueness theorems for magneto-static fields (despite having a sizable section in electrostatics on a parallel discussion) in chapter 5 and fails to introduce E&M Lagrangian despite coming close in chapter 10 (hence students have no idea why E&M gauge invariance is indeed actually a case of gauge invariance). On the positive side, I think the revisions from 3rd edition are subtle but valuable. So in my opinion the book is just short of perfect for the intermediate level (maybe half a star from 5). The 2 stars are for the publisher. Horrible physical book. Pages started to fall apart just about as soon as I opened the book. Students usually elect to keep these classics on their bookshelves for years but with this abomination they will be lucky to get through half a semester.

Written in a way that helps you understand the material instead of making you feel like an imbecile. Lots of examples and the problems are peppered throughout the text instead of lumped up at the

end. (And some at the end of each chapter as well). Need advanced skills in math to do the problems though. Up to Differential Equations and Linear Algebra at least.

The build quality of this edition of the book leaves much to be desired. A majority of the pages are separating from the spine after only a couple of weeks use. It should also be noted that the differences between this and the third edition of this text are minutely different with entire sections simply being copied and pasted into this new edition from the previous. Problem statements have been shuffled around with few additions to the text. The content within the text itself is quite good. Subject matter is very informative and the method for which the material is presented is intuitive. However, all of this can be found in the cheaper and better-quality third edition. I would not recommend this product.

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