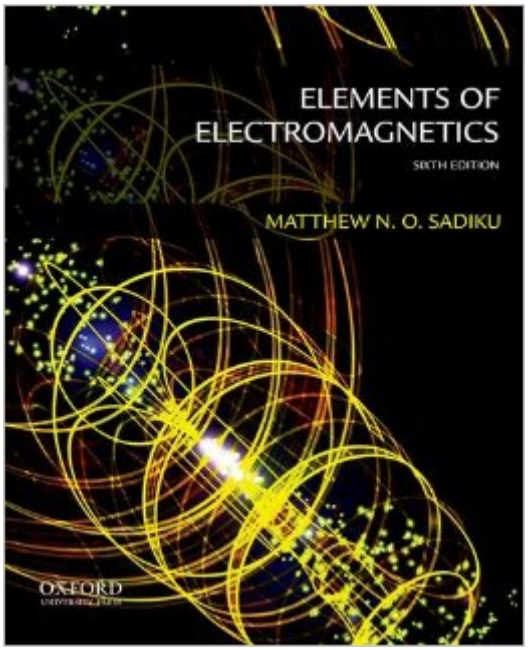
Elements Of Electromagnetics (The Oxford Series In Electrical And Computer Engineering)



Synopsis

Using a vectors-first approach, Elements of Electromagnetics, Sixth Edition, explains electrostatics, magnetostatics, fields, waves, and applications like transmission lines, waveguides, and antennas. The book also provides a balanced presentation of time-varying and static fields, preparing students for employment in today's industrial and manufacturing sectors. Streamlined to facilitate student understanding, Elements of Electromagnetics, Sixth Edition, features worked examples in every chapter that explain how to use the theory presented in the text to solve different kinds of problems. It also covers numerical methods, including MATLAB and vector analysis, to help students analyze situations that they are likely to encounter in industry practice.The fully revised and updated sixth edition now features:*Fifteen new "Application Notes" that explain the connections between concepts discussed in the text and the real world*A math assessment that enables instructors to gauge their students' mathematical knowledge and preparedness for the course *Coverage of wave polarization (Chapter 10) *New and updated end-of-chapter problems A companion website for the book is available at http://www.oup.com/us/sadiku and features PowerPoints of every image in the text.

Book Information

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Customer Reviews

Just in the first 20 problems for chapter 1, there has been 3 mistakes in the solutions. Chapter 1 is just the review of basic vector operations. If Dr. Sadiku and his editor and the publisher can't get that right on the SIXTH edition, then how am i supposed to trust the later problems?I don't mind the

obtuse explanations and the way the book explains things, that’s what the lecture is for. but i can’t stand it when the answers in the back are wrong, which is surprisingly common in these higher level math and applied math books. I work full time as well as take a full time class load, and i do my homework when I can. Nothing is more frustrating that sitting there scratching my head wondering if I screwed up a problem or if the book is wrong, and having to do the problem (usually a long one) again.Unfortunately the truth about this entire industry becomes clear: All Dr. Sadiku and the publisher care about is selling more books. The wrong solutions are probably due to moving around problem numbers and not checking to see if the solutions match up. But who cares when you can squeeze another $200 out of broke EE students?I’m sure Dr. Sadiku’s books on marriage are better edited, because they’re not a cash cow.

It does an okay job at giving explanations of the concepts and proofs. But the example problems that are worked out have far too many errors in them to be trustworthy. Which by the 6th edition of the book is just unacceptable. I know that most professor’s textbooks only have their name on them and it is their TA’s that are responsible for a lot of the editing, but honestly I would not want my name associated with a book that has as many errors as this has. Some are simple and easily spotted while others are not so simple because they are in key concepts that you are just learning. If you have a good teacher that points out when the errors are there or works through the examples himself or herself then the book can be useful. But it is not something you can really use to study on your own reliably. The book also falls into the trap of giving a few examples and then a ton of questions in the problem sets that are not easily solved using the examples as guides. So you probably want to pick something like 2008+ Solved Problems in Electromagnetics (Electromagnetics and Radar) or Schaum’s Outline of Electromagnetics, 4th Edition (Schaum’s Outlines) to help you with solving problems if your professor assigns homework from the book.

Tends to be very heavy on thick examples and light on explanation. For example most sections spend 2-3 short paragraphs explaining something and then launch in to a very deep example. Examples tend to be of the sort where "some algebra/calculus" occurs and then "the proof is left as an exercise to the reader". If your algebra and calculus skills are very very strong you will likely see the examples as fine but if you need more steps shown to understand how an example gets from step A to B you will likely not like this book.

Can’t be used to learn the subject without supplemental lectures. For example, the solutions that are

in the book for the practice problems have frequent errors, which makes it useless to check your answers against. The writing sometimes leaves fairly massive jumps between steps up to the reader to notice.

This book is an insult to human knowledge, I don't understand how it has 3.5 stars. The writing is dense, it has no substance whatsoever, and is pathetically ridden with typos in the solutions despite being the 6th edition. I can only imagine what the 1st edition was like. You could read this book cover-to-cover and not walk away with an ounce of understanding about electromagnetics. He literally just throws formulas at you and provides you with a bunch of silly problems with no academic value and just train you to pattern match.Dr. Sadiku should really do all engineering students a favor and cease writing books. I cannot believe a publisher would allow such a waste of paper to enter the world's knowledge base.

Simply put one of the most dense and difficult to follow texts I've ever had the displeasure of reading. Complex concepts are explained once, briefly before being reduced to a single letter symbol, many of which are duplicated. (How many different ways can we use Rho?). Then operations are preformed, rendering a new symbol. Repeat. Eventually your left with alphabet soup and no sense of what processes are being applied to which forces to produce which effects.Makes a difficult and opaque topic impenetrable.Professors, please avoid this book.

This is really a very poor book. The explanations are nebulous and lack physical rigor. There are many examples, but these are more frustrating than enlightening given the insufficient accompanying explanations. The writing is also very dull. The worst part though is the mistakes--the text and solutions manual are absolutely riddled with errors. Working through the text's problems will lead to endless frustration. I recommend electromagnetics texts by Griffiths or Inan and Inan instead.

Series in Electrical and Computer Engineering) Transformer and Inductor Design Handbook, Fourth Edition (Electrical and Computer Engineering) Study Guide for Fundamentals of Engineering (FE) Electrical and Computer CBT Exam: Practice over 400 solved problems based on NCEESÂ® FE CBT Specification Version 9.4 DEWALT Electrical Code Reference: Based on the 2011 National Electrical Code (DEWALT Series) Illustrated Guide to the National Electrical Code (Illustrated Guide to the National Electrical Code (Nec)) McGraw-Hill's National Electrical Code 2014 Handbook, 28th Edition (McGraw Hill's National Electrical Code Handbook) Electrical Estimating Methods (Means Electrical Estimating, 2nd ed) Error-Control Coding for Computer Systems (Prentice Hall series in computer engineering) Electrical Insulation for Rotating Machines: Design, Evaluation, Aging, Testing, and Repair (IEEE Press Series on Power Engineering) Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science (Machine Language) Mechanical and Electrical Systems in Architecture, Engineering and Construction (5th Edition) Coding, Communications, and Broadcasting (Electronic & Electrical Engineering Research Studies) Mathematics for Electrical Engineering and Computing