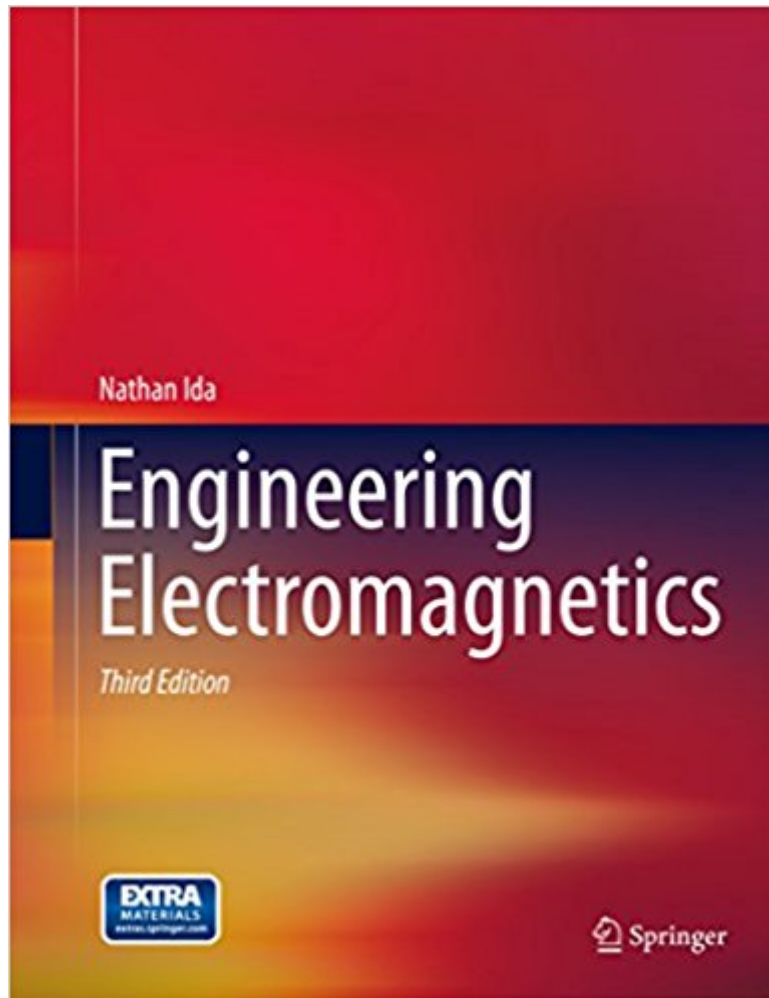




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Engineering Electromagnetics



Synopsis

This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps – a short, introductory chapter followed by a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book. Includes 600 end-of-chapter problems, many of them applications or simplified applications. Discusses the finite element, finite difference and method of moments in a dedicated chapter.

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Customer Reviews

Amazing. I am taking Dr. Ida's electromagnetics courses and this book is physically the largest and heaviest book I have encountered in my life. It can be used as a shield in times of danger and once you have read every word, you acquire the power to batter enemies with electromagnetic waves. I am still training but as of now I can propagate plane waves in one dimension. One day I am sure you will be riding the electromagnetic waves as well. Ta ta!

I got this book after reading through several different ones including the assigned text for my class and this is one of the best books on this subject that I've read so far. Everything is explained in detail but it's still easy to follow along. The problems at the end of the chapters range from easy - to test your basic understanding, to very complex. What I loved a lot about this book is that it comes with supplemental materials which are downloadable through the book's website. The author provides a solution manual for every single problem in the book, for FREE! Which helped me a lot so that I could check my work and make sure that the problems were solved correctly. There are also simulations and computer programs that you can run on MATLAB and the book reminds you when there is a simulation or program available for that section. I really recommend this book for those who are self studying because everything is explained clearly and thoroughly, and for those who have to a class on EM as well. The only thing about this book could be that it is quite big (8.4 x 2.4 x 11 inches, according to the product description), but I myself don't have a problem carrying it around. If size is a problem though, then you can buy the digital version instead.

A wealth of knowledge. Graduate level physics mixed with serious engineering applicability.

A great textbook with clear and comprehensive exposition and examples. However, the book is riddled with typos, usually benign but sometimes confusing and frustrating. There is at least one instance (p. 153) where a key formula contains an equals sign where there should be a minus sign--a vital error!! Even worse, I have also seen some mistakes in the answer key and the solution manual (provided for free online, a huge bonus), even some exercises where they give contradictory answers. Luckily, if you compare the two sources you can usually figure out what the correct answer should be. If the publisher can clean up all the errata in this textbook then it will be

almost perfect.

Clear concepts, lots of applications, good coverage.

This is one of the worst textbooks I have ever purchased. The author does a horrible job of explaining most concepts and in many areas unnecessarily complicates the subject at hand.

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