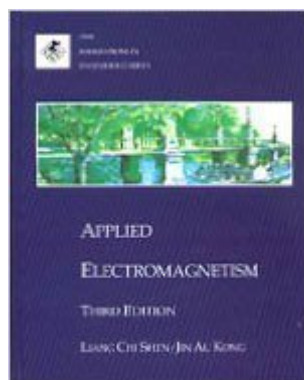


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# Applied Electromagnetism (Pws Engineering Foundation)



## Synopsis

In their successful text, Shen and Kong cover fundamentals of static and dynamic electromagnetism fields and waves. The authors employ a unique approach, beginning with a study of Maxwell's equations and waves and covering electromagnetic fields later. This presentation allows students to work with electromagnetic concepts using relatively simple computational analysis, building in a logical progression to more complex topics and mathematical methods for analysis. The Third Edition provides computer-based problems, homework problems, end-of-chapter summaries, and a rich collection of real-world application examples that include discussion of cellular phone and microwave exposure limits set by IEEE; safety concerns about electromagnetic fields from power lines; new and powerful magnets; and single-mode optical fibers.

## Book Information

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Average Customer Review: 3.4 out of 5 stars [See all reviews](#) (12 customer reviews)

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## Customer Reviews

I just completed a junior-level course which made use of this text. Although the topics are arranged differently than in similar textbooks, I found the explanations of EM concepts quite good. The main strength is getting right to Maxwell's equations in chapter two (--after all, that's what EM is all about, right?). Maxwell's equations are explained well and at an introductory level so that the reader is not overwhelmed. The main weakness is the very underdeveloped first chapter, "Complex Vectors" which is too brief and oversimplified for the subject matter at hand. The book also presents very informative and even entertaining asides on applications, such as "anti-glare headlights"

(polarization), "tails of comets" (radiation pressure) and "microwave ovens" (penetration depth). Overall, a very good first EM book.

Ever notice how bad reviews come from people taking the class.... Yep, me too. I hated this book when I was in EM class. I thought it was junk. Only years later did I find the utility in it and started using it as a go to reference text. You need to become familiar and comfortable with the math. Generally not going to happen in a one semester EM class. This isn't EM for dummies...it's a reference text on the applications of electromagnetics. In that I think it does a good job of providing many examples of EM applications to real life situations. So learning EM theory isn't easy...no matter what book you have. My opinion is the reviewers of this book that give it a bad rating are doing so out of frustration...and I understand their pain. Once the pain of learning the basics is over, this becomes a very useful text.

Pros: Relate EM into real life examples, which makes the book interesting to read. Simple but powerful examples and equations which made my life a lot easier. Cons: Lack of example and practice problems. Overall: Very nice book to read for understanding of the materials, but you'll need to practice problems on your own.

Was first introduced to the first edition, own a copy of the second edition and have used the third edition on numerous occasions for reference. I truly believe this book has improved successively each time. Whereas Griffiths presents the physical theory along with a sufficient amount of insight this book focuses on applications and the plethora of useful examples make it an interesting read. I enjoy taking this book from the bookshelf and learn how useful electromagnetics is. Shen and Kong went to great lengths to include practical examples to keep engineering students interested without the typical dry exposition. No, this book is not very stringent on theory but typically it is considered poor practice to scare away paying customers at the undergraduate level - as such it strikes a nice balance. For a book on a slightly higher level I recommend Staelin, Morgenthaler and Kong's *Electromagnetic Waves*.

Bought this book for electromagnetics class and didn't find it particularly useful. It is good for references when equations are needed but generally that's it. I found the context to be kind of vague and the sample problems weren't particularly helpful

I'm currently in an electromagnetics course that uses this book and this book is awful. The author cannot explain the concepts in a clear manner. The author skips parts of the explanation leaving me confused as to what he did. Also the examples in the book are not very good, an answer is given with little or no work. The book needs more examples and needs to explain the concepts much better. If you're in a course that uses this book get another book, such as Schaum's Outline of Electromagnetics. From a student point of view, this is a horrible book.

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