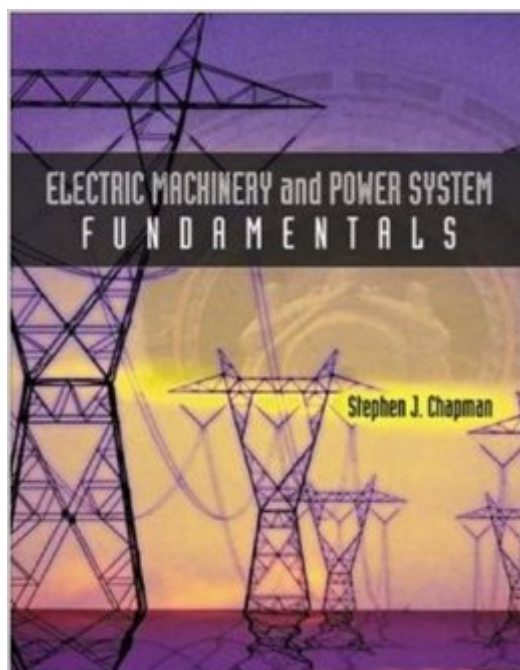


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# Electric Machinery And Power System Fundamentals



## Synopsis

Stephen J. Chapman is a leading author in the area of machines. He brings his expertise to the table again in "Introduction to Electric Machinery and Power Systems." This text is designed to be used in a course that combines machinery and power systems into one semester. Chapman's new book is designed to be flexible and allow instructors to choose chapters "a la carte", so the instructor controls the emphasis. Chapman has written a book that gives students what they need to know to be real-world engineers. It focuses on principles and teaches students how to use information as opposed to do a lot of calculations that would rarely be done by a practicing engineer. He compresses the material by focusing on its essence, underlying principles. Matlab is used throughout the book in examples and problems.

## Book Information

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## Customer Reviews

I was the teaching assistant for an introductory Power Systems class last semester that used this book, and I would not recommend it. For starters, this book lays a poor foundation of the basic concepts of three-phase power and complex power. In addition, some sections of the book are VERY confusing, even as someone who already has a degree in the material. Example problems are weak, and the problem solving in the solutions manual (which can be viewed with a quick search of the web) is not straightforward, often employing "cookbook" problem solving methods. The biggest deficiency of this book is its weak explanation of magnetic circuits. For electric

machines (and magnetic circuit theory), I suggest Electric Machinery by Fitzgerald. For power systems analysis (which this book didn't really go into), I liked Power Systems Analysis and Design by Glover, whose cover Chapman seems to have ripped off. I prefer my old class notes' explanation of the fundamentals of complex power and three-phase power better than either of these, but they are both better than Chapman.

I just got out of college with my electrical engineering degree and had to use this book for a class. With just this I was able to get an A in said class without ever attending. It breaks down the material very well and is written in a language that is easy to understand. Also contains a lot of matlab examples which help in coding classes and allow the student to see the effects of variable change. The only downfall I have seen is not enough examples. A lot of the power system material is based on wiring configuration (delta vs wye) and this book would only do examples for one which could get confusing. Other than that it was very beneficial to learning.

I like this book because it explains power systems in a clear, concise manner. It leaves out some analytical details about transformers, motors and power systems, but those are very, very minor details that can be picked up elsewhere and are not critical to overall understanding. I think there are other books as good or better than this, but what stands this book apart is the clear, concise explanation of the subject material it covers. Anyone who gets a basic education about motors and power systems from this book in school is well-prepared for industry. This is an excellent reference or intro to the fascinating world of motor and power analysis. I highly recommend this book.

So far the book has been ok in my machines and power fundamentals course, mostly though because my instructor is completely useless in this field. Some things I have seen before and the book offers a more thorough explanation of concepts although the approach in the problems is not usually the one most easily seen by me. That being said, I do praise the book for its numerous examples and detail. The Matlab examples don't really make use of its abilities but they're still helpful.

The book sent has the same title but does not have a matching isbn to what was searched. I was sold an international edition of the text I intended to purchase. It is a shame that there are so many companies and people looking to rip others off.

The book gets to the point on most of the chapters; however, it iterates some laws in chapter 1 on the first few pages that are not even seen again until chapter 4. The book has mistakes that I think are very important to address since this is dealing with a high voltage potential circuit. I would recommend this book, but if you do the homework and you can not figure out why your answer is different it's probably because they are wrong.

This is one of the best-written engineering textbooks I have read as an engineering student. Writing is as easy-to-read without being too casual and covers just enough of the technical information. Examples are relevant to the text.

The text seems to be adequate as far as the content. My problem with this book is all of the worked out examples are riddled with errors! This book is terrible in that respect. It's almost like they didn't give it a review before they published it. This is very annoying when you start doing problems, and you will begin to question all of their work.

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