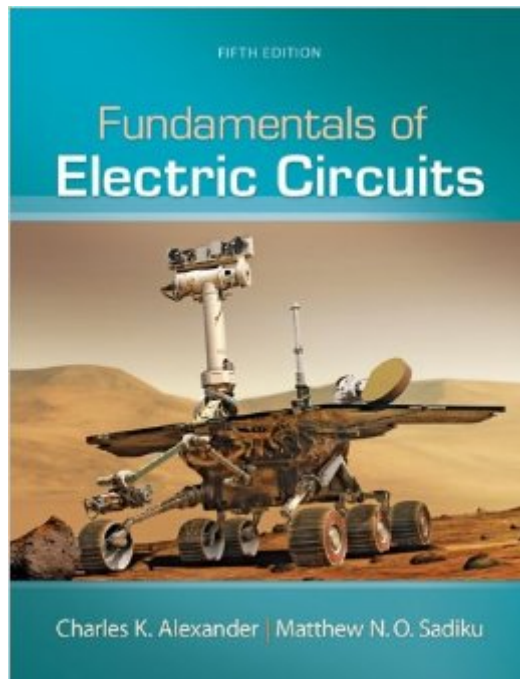


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# Fundamentals Of Electric Circuits



## Synopsis

Alexander and Sadiku's fifth edition of Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems throughout the text. A balance of theory, worked examples and extended examples, practice problems, and real-world applications, combined with over 468 new or changed homework problems for the fifth edition and robust media offerings, renders the fifth edition the most comprehensive and student-friendly approach to linear circuit analysis. This edition retains the Design a Problem feature which helps students develop their design skills by having the student develop the question as well as the solution. There are over 100 Design a Problem exercises integrated into the problem sets in the book.

## Book Information

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## Customer Reviews

This book would be great if it weren't for all of the mistakes in the solutions, so instead it is complete garbage. I have wasted hours trying to figure out why my answer is wrong when really they just didn't put the correct answer at the end of the problem. Our circuits teacher sends out warnings every few days that there is a mistake in the book. This is criminal, especially for a fifth edition (which FYI is exactly the same as the fourth edition, save yourself some money). There are several

mistakes in each chapter.

To be fair, my class really only used this book for example problems and practice problems. That being said, I spent much time in each chapter reading through and trying to learn the material to after class in order to do the practice problems. The book introduces multiple changes at once between many examples and corresponding practice problems. This makes for an extremely convoluted learning curve as the student isn't actually solving what he or she just learned--the student is often solving a much more vague and difficult concept than what was just introduced in the text and example. That, paired with the fact that many solutions in the book are incorrect makes this book, in my opinion, not worth the money. My troubles with the practice problems (from which all of my homework came) really made my circuits class hell.

The book does an excellent job explaining circuit analysis, but you'll find that many of the answers in the back for the odd numbers are wrong. It's heavily distracting and can disrupt an entire weekend's worth of homework, but I guess having the capability to prove that you're right is just part of learning. Also, a lot of examples that require technology make use of PSpice, although the industry currently uses Multisim, but earlier student versions of PSpice can be legally downloaded for free. You will need calculus and some differential equations, but the book walks you through it for the most part. Edit: I am changing my review from 4 stars to 2 stars. The 2 stars implies that I am learning something, while the sudden drop of 2 stars is due to the fact that my grades are being affected by the errors in this book. Every homework assignment that I have had for the later chapters have all had errors in the solutions, and I have proven that they are errors by comparing outputs with MATLAB and Multi-sim. I am actually getting very good grades on my tests, so I can assure that I am learning the content, but the errors in the solution manual and practice problem solutions have become the biggest waste of time for me.

(4/5 stars)As much as I wanted to give this book a 5/5 I have noticed that there are some errors in the textbook, but people keep ranting about the text just pulling out random equations, these equations of course are not random, you are supposed to know them extremely well, if I may add, from your experience in physics II. So if you consider studying from this book, you should already have a strong background on physics II. UPDATED(10/24/14)(After having this book for about a month)This book, while seemingly good in anyone who is new to the class, has a lot of flaws in its approach. The explanations are short and brief, but see that's where the problems arise, the

descriptions are too brief, and a lot of the problems towards the end of the chapter barely even match to the level of the problems given in the examples. I still do stick to my quote where some of the equations are straight from physics II within the beginning of the chapter, but the explanations leave those huge gaps to what you're actually working with. An example of this is the explanation of current and voltage sources throughout the beginning of the book, the book does not explain that current sources are what is known as dual voltage and that the reason we consider current sources is for working with transistors towards the progression of the text. The exercises in the text are a joke compared to the actual problems, and taking a look at the solutions manual, most problems lack sensible explanations in regards to why the answers are taken in that certain approach based on the explanations given from the chapters within the textbook. My recommendation is to read an edition of *Introductory Circuit Analysis* by Boylestad, it follows the same curriculum only that it gives you better explanations and clearer examples, it uses a different software to solve for systems of linear equations, but you can still use MATLAB or Pspice to do the same things. In fact, this book is lacking so much that most of my classmates resorted to watching YouTube videos to seek methods for solving the problems.

As a student who has just entered the vast world of electrical engineering, it's essential to develop a strong foundation in circuits and systems to progress further. This book is a major catalyst in doing so. A lot of the times we read a bunch of theory which we think we understand and then move on to the examples to test ourselves but we find it quite a struggle. It isn't the case with this book. First of all, the theory is explained very concisely with a plethora of diagrams, followed by examples with thorough explanations'. I've found from past experience that the theory may have been explained to a reasonable degree but the following worked examples were quite simple with a whole lot of math with very little explanation. Because I couldn't see the theory being put in practice well enough, I struggled to solve the end-of-chapter exercises ending up with knowledge falling short of the acceptable threshold, this is the key. In this book the worked examples aren't that simple, but it isn't too difficult to follow particularly because they're explained very well, making the end-of-chapter exercises manageable. I had lecturers who throughout the semester, didn't get the concepts across that easily which generally means you're in a lot of trouble, but I had this book so I was never in any danger, and so, I recommend this book to anyone starting in electrical engineering, or for a refresher!

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