



## Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't

By Darren Ashby

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### Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't By Darren Ashby

Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems.

This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of:

- Microcontrollers
  - FPGAs
  - Classes of components
  - Memory (RAM, ROM, etc.)
  - Surface mount
  - High speed design
  - Board layout
  - Advanced digital electronics (e.g. processors)
  - Transistor circuits and circuit design
  - Op-amp and logic circuits
  - Use of test equipment
- Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life.
- Updated content throughout and new material on the latest technological advances.

- Provides readers with an invaluable set of tools and references that they can use in their everyday work.

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### Editorial Review

#### Review

From Amazon.com reviews:

"This is a great book because the author is taking basic theory and providing the reader with some good intuitive tools to gain a foothold on how components work.

Many textbook authors in the circuit analysis arena (or electrical engineering as a broader area) tend to do one of 3 things: a) Over explain a concept until the reader loses track of what he is doing b) Skip too many steps in showing the derivation of a formula or the solving of a problem. c) Place more emphasis on the mathematics associated with specific problem rather than the problems significance.

The author clearly avoids these traps. His text is reminiscent of a bygone era where engineering books actually sought to explain concepts and their significance."

"I would recommend this book to anyone interested in electronics. This book helped me understand concepts that I struggled with in class and for years after school."

"This is what more educational institutions need - someone who can take a subject and simplify it so that it is easy to recall. I have a BSEE and these topics were always taught from just a mathematical standpoint. The author takes the subject and teaches it in a way that is easily memorable."

"My background is Mechanical Engineering and I found this book to be extremely useful and interesting. I purchased this book in order to get a better understanding of the EE basics. Like most universities a ME takes an EE 101 course that is essentially a weed out course. The problem with a weed out course is that in the end you don't have a solid understanding of what the underlying basics are. If this sounds familiar, you should definitely buy this book."

"This book is an easy read after you've gone through EE. Makes you see the forest from the trees. Spend so much time in early circuits classes just trying to figure out currents, gains and voltages that all I could do was the math (the trees). This book has helped not only to review concepts, but to help me see what these components are doing (the forest). Enjoying the book."

"I enjoyed this book very much. I especially liked the software on the CD, which had nice tools to work with. I enjoyed the clarity in the writing and the informal style. I was having trouble grasping concepts in some of the more formal books on EE, which made it sound more like magic than science. The way the author related EE concepts to mechanical ones helped tremendously. I recommend this book highly, if you are new to electronics."

#### From the Back Cover

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understanding and the knowhow to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step by step build instructions, Electronics Engineering 101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level.

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## **Users Review**

### **From reader reviews:**

#### **Jackie Gonzalez:**

Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't can be one of your nice books that are good idea. Many of us recommend that straight away because this e-book has good vocabulary that will increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The author giving his/her effort to set every word into joy arrangement in writing Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't nevertheless doesn't forget the main level, giving the reader the hottest in addition to based confirm resource facts that maybe you can be one among it. This great information can certainly drawn you into completely new stage of crucial considering.

#### **Michael Farrell:**

Beside this specific Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't in your phone, it could give you a way to get more close to the new knowledge or details. The information and the knowledge you can got here is fresh from oven so don't possibly be worry if you feel like an outdated people live in narrow commune. It is good thing to have Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't because this book offers to you readable information. Do you at times have book but you would not get what it's about. Oh come on, that will not happen if you have this within your hand. The Enjoyable option here cannot be questionable, similar to treasuring beautiful island. So do you still want to miss the item? Find this book and also read it from now!

#### **Kimberly Morris:**

Is it anyone who having spare time after that spend it whole day simply by watching television programs or just laying on the bed? Do you need something new? This Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't can be the response, oh how comes? A book you know. You are therefore out of date, spending your free time by reading in this new era is common not a geek activity. So what these publications have than the others?

**Regina Hash:**

Reading a guide make you to get more knowledge from that. You can take knowledge and information from your book. Book is written or printed or outlined from each source in which filled update of news. In this modern era like today, many ways to get information are available for an individual. From media social like newspaper, magazines, science e-book, encyclopedia, reference book, fresh and comic. You can add your knowledge by that book. Isn't it time to spend your spare time to open your book? Or just searching for the Electrical Engineering 101, Third Edition: Everything You Should Have Learned in School...but Probably Didn't when you desired it?

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