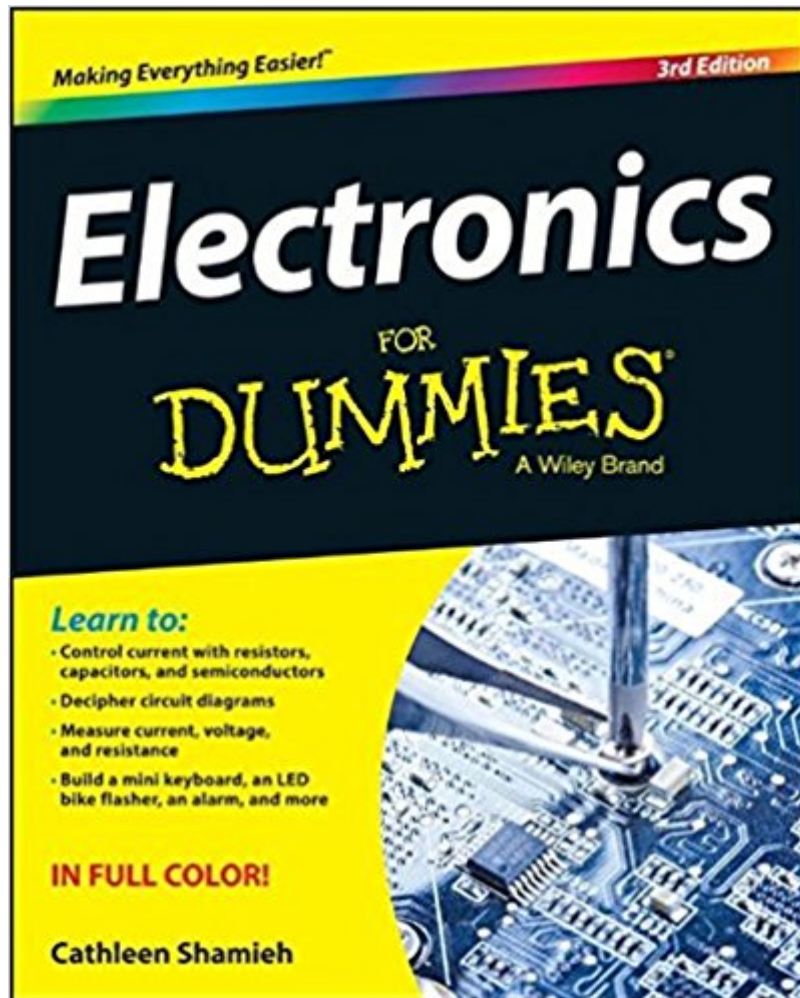




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# Electronics For Dummies



## Synopsis

Explore the basic concepts of electronics, build your electronics workbench, and begin creating fun electronics projects right away! Electronics For Dummies, 3rd Edition is Packed with hundreds of colorful diagrams and photographs, this book provides step-by-step instructions for experiments that show you how electronic components work, advice on choosing and using essential tools, and exciting projects you can build in 30 minutes or less. You'll get charged up as you transform theory into action in chapter after chapter!

- Circuit basics: learn what voltage is, where current flows (and doesn't flow), and how power is used in a circuit.
- Critical components: discover how resistors, capacitors, inductors, diodes, and transistors control and shape electric current.
- Versatile chips: find out how to use analog and digital integrated circuits to build complex projects with just a few parts.
- Analyze circuits: understand the rules that govern current and voltage and learn how to apply them.
- Safety tips: get a thorough grounding in how to protect yourself and your electronics from harm.

Electronics For Dummies, 3rd Edition helps you explore the basic concepts of electronics with confidence • this book will get you charged up!

## Book Information

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## Customer Reviews

Learn to: Control current with resistors, capacitors, and semiconductors  
Decipher circuit diagrams  
Measure current, voltage, and resistance  
Build a mini keyboard, an LED bike flasher, an alarm, and more  
Build your electronics workbench and begin creating fun electronics projects right away

Packed with hundreds of colorful diagrams and photographs, this book provides step-by-step instructions for experiments that show you how electronic components work, advice on choosing and using essential tools, and exciting projects you can build in 30 minutes or less. You'll get charged up as you transform theory into action in chapter after chapter! Circuit basics • learn what voltage is, where current flows (and doesn't flow), and how power is used in a circuit Critical components • discover how resistors, capacitors, inductors, diodes, and transistors control and shape electric current Versatile chips • find out how to use analog and digital integrated circuits to build complex projects with just a few parts Analyze circuits • understand the rules that govern current and voltage and learn how to apply them Safety tips • get a thorough grounding in how to protect yourself and your electronics from harm Open the book and find: How tiny parts manipulate current A hands-on exploration of popular components Why Ohm's and other laws are so important How transistors amplify and switch current What a 555 timer chip can do (a lot!) The ins and outs of digital electronics Step-by-step instructions for constructing circuits Fun projects you can build quickly

Cathleen Shamieh is an electrical engineer and a high-tech writer with extensive engineering and consulting experience in the fields of medical electronics, speech processing, and telecommunications.

This is an excellent book for beginners. It doesn't go too deep, but if you've never done anything in electronics before it's an excellent place to start. It explains the basic concepts of voltage, current, and power, Ohms law, and how and what the basic components of electronics do. There are also simple circuits you can build along the way. The author takes time to explain how to use a multi-meter, how to solder, and how to use a breadboard. Everything you really need to know to get started.

so far so good, i'm only about 1/3 through it and have learned a bit. I have some electronic knowledge, but I like the projects and testing voltage drop, mA, ohms law and that other stuff I thought I knew, but it's making it all come together. The online supply sources are great. I went to radio shack and they wanted \$21.99 for a breadboard I found online for \$4 in the online shopping resources found in this book. I still bought some stuff from radio shack, because...well, i don't want them to disappear. If i purchased everything listed in this book from Radio Shack it would cost at least \$200+. I got \$30 worth of stuff from RS to start with, and ordered 200+ items (LED's, resistors,

capacitors, switches etc) online for another \$30.

Good book for beginners, glad I purchased this book. It was a very great place to start learning about the world of electronics. I would recommend this to anyone looking to understand basic components used in electronics. Well written and easy to understand.

I've tried to get into other electronics primers, but this is the one that actually made sense to me. The explanations of the various components are pretty solid, and filled in a lot of gaps. I probably could use to re-read some of it for it to really sink in. My only complaint is that the theoretical stuff around Ohms law and calculating various circuit pieces could have been placed later in the book instead of the middle. I guess I like the hands on stuff before the theory. That said, the author does walk you through a good bit of the testing technique and theory together in some of the earlier chapters. The projects at the end seem fun and cover all of the major components and topics presented elsewhere in the book. I intend to get some more of the parts described and build a few for fun. At this point I feel comfortable delving into specific projects outside the book suited to my particular interest (analog audio signal manipulation for electric guitar).

I haven't got any real background in electronics, but committed to teaching a class in basic electronics. This book was perfect to give me the background I needed. I purchased two other books which are good. But, this the one I reach for.

Bought for my husband for school and he says it is extremely helpful! This book has been a life saver!

This is a great book that covers a broad range of relevant and practical topics. This is very well written with great diagrams and colored pictures. Having some experience in the past, I found this book to be exactly what I wanted. Highly recommend this book to someone who wants a good jump start into electronics.

Bought this for my Nephew (10 years old) and he loves it

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