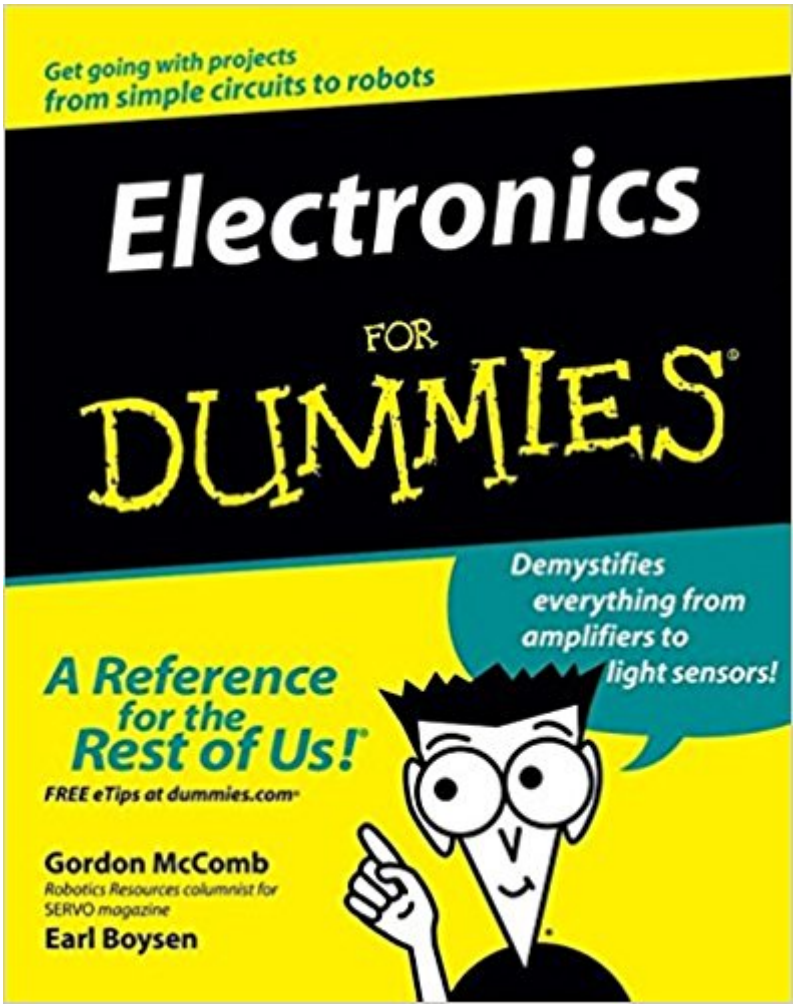
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Electronics For Dummies (For Dummies (Lifestyles Paperback))



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Synopsis

Want to hook up your home theater system? Want to fix it so your garage band rocks the neighborhood? Want to solder the faulty wire on your old phonograph so you can play those 60s albums youÃ¢â ¬â„¢ve kept all this time? Whether youÃ¢â ¬â„¢re a do-it-yourselfer , hobbyist, or student , this book will turn you on to real-world electronics. It quickly covers the essentials, and then focuses on the how-to instead of theory. It covers: Fundamental concepts such as circuits, schematics, voltage, safety, and more Tools of the trade, including multimeters, oscilloscopes, logic probes, and more Common electronic components (e.g. resistors, capacitors, transistors) Making circuits using breadboards and printed circuit boards Microcontrollers (implementation and programming) Author Gordon McComb has more than a million copies of his books in print, including his bestselling Robot BuilderÃ¢â ¬â„¢s Bonanza and VCRs and Camcorders For Dummies. He really connects with readers! With lots of photos and step-by-step explanations, this book will have you connecting electronic components in no time! In fact, it includes fun ideas for great projects you can build in 30 minutes or less. YouÃ¢â ¬â„¢ll be amazed! Then you can tackle cool robot projects that will amaze your friends! (The book gives you lots to choose from.) Students will find this a great reference and supplement to the typical dry, dull textbook. So whether you just want to bone up on electronics or want to get things hooked up, souped up, or fixed up,Ã¢â ¬Â¦whether youÃ¢â ¬â„¢re interested in fixing old electronic equipment, understanding guitar fuzz amps, or tinkering with robots, Electronics For Dummies is your quick connection to the stuff you need to know.

Book Information

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Customer Reviews

Begin having fun with electronics projects right away Explore the basic concepts of electronics, build your electronics workbench, and create cool projects Wish you could fix that faulty doorbell, hook up a motion detector, or maybe build your very own robot? This book will really get you charged up! It won't make you an electrician, but it covers the basics, choosing and using tools, and how to build more than a dozen really cool, inexpensive gizmos. You'll be shocked at how easy it is! Discover how to Master electricity basics Fill up your electronics parts bin Read circuit schematics Test circuits with multimeters Design your own printed circuit boards Build robots and program their actions

Gordon McComb has penned 60 books and over a thousand magazine articles. More than a million copies of his books are in print, in over a dozen languages. For 13 years, Gordon wrote a weekly syndicated newspaper column on personal computers. When not writing about hobby electronics and other fun topics, he serves as a consultant on digital cinema to several notable Hollywood clients. Earl Boysen is an engineer who, after 20 years in the computer-chip industry, decided to slow down and move to a quiet town in Washington. Earl lives in a house he built with a wonderful lady and finds that he is as busy as ever with teaching, writing, house building, and acting.

Electronics for Dummies is a wonderful book for people interested in understanding and considering getting into the field of electronic component repair (not computers, but repairing components such as radios, stereos, amps, etc.).Unlike college text books (which I have recently used), it is not dependent on math, then more math. You can get through most of the book before having to fool with math, with most math being basic algebra. For basic component repair and hobby's, you'll rarely use math, so that is where this book excels.The book teaches the reader about the individual components and how to identify them, what they do individually and how they work in conjunction with other components in a circuit, learning schematic and schematic symbols, using multimeters and other testing equipment. Again, this is what most of us want and need, not tons of math that would be needed if you were considering an "electrical design" path, but not needed otherwise.Again, I recommend this book for anyone that is flirting with a career path or retirement income towards "electronic component repair" or just wanting to better understand how the

components work.

If you don’t know anything about electronics and want a well-witten introduction, this book would be a good choice. It describes both analog and digital electronics in clear prose with the typical light humor that is the tradition of the "Dummies" books. There are some helpful illustrations that show how charges flow in a circuit and how they accumulate in a capacitor and how they work in a semiconductor. It covers the simple algebraic math of Ohm’s and Kirchoff’s Laws as well as capacitive and inductive reactance and impedance. It describes some of the most common analog and digital integrated circuits and how they can be used in creating various kinds of circuits. It introduces schematic symbols from the beginning and later devotes an entire chapter to understanding circuit diagrams. There are sections on safety, basic manual skills such as soldering, and where to purchase parts and tools as well as some online resources for learning more. Finally, it has some simple projects you can make, although I didn’t think that this was the strongest part of the book.I bought this for my granddaughter to provide the theory to go along with the practical experience of building simple circuits with the Snap Circuits kit. It seemed the best of the introductory texts I reviewed for this purpose.

This is one of the better basic electronics books out there, in part because it is so basic. The author starts with electrons and goes from there in simple, non-technical language to introduce you to how the things around us work, Although the work starts at a very basic level, it builds through computers, control systems and schematics, grounding the reader carefully all the way. The treatment is about as non-mathematical as you can get when talking about electronics. It is also primarily not a project book. Just a clear explanation. A very good book to get you started in electronics.

Enjoyed this book. Didn’t read it cover to cover. Took off one star only because I find that most books either focus on more advanced usage of terms and concepts, or really dumb it down. To me, the ideal book bridges the gap between those and lets you walk away feeling that you really understand what you learned and how to apply it. This book did that pretty well, but at least for me could have been a drop better.

As always with the "for Dummies" series this was an incredible readable book. I got it when I started working in an electronics company, my background is in finance and I had to be able to understand

the electronics issues in the products and the factory for my work. I found this book invaluable in order to understand the products we were manufacturing.I do not believe it is anyoneÃƒÂ¢Ã â ¬Ã â„¢s opinion that after reading a ÃƒÂ¢Ã â ¬Ã Å“for DummiesÃƒÂ¢Ã â ¬Ã Â• book they would master the subject, but I felt fully capable of understanding the context of the technical challenges and then perform my work understanding and quantifying for the finance department the resulting consequences. It still brings a smile to my face when I show to one of the engineers that I understand the basic concepts that they are dealing with and it has greatly helped me in my work. What else could a dummy ask for?

You need to be one of the more adept dummies, but if so, this is a good reference. The structure of the book is mostly effective, with sections on theory and components, safety and actual test circuits. That said, some of the theory is a struggle. This, coupled with the kit bought, is a good place to start though, and I will continue the struggle to sort out some of the concepts for capacitors and transistors. Be warned, you do need some comfort with maths to be able to cope here. It is not deep stuff, but brush up your basic algebra to be able to sort out some of the ideas.

At first before giving it a chance I didn't like it, but it has become a regular reading companion.

It is the book I expected to get and am using it for teaching my 11 year old electronics Nice.

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