



# Electronics For Dummies

By Cathleen Shamieh

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**Explore the basic concepts of electronics, build your electronics workbench, and begin creating fun electronics projects right away!**

*Electronics For Dummies, 3<sup>rd</sup> 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, 3<sup>rd</sup> Edition* helps you explore the basic concepts of electronics with confidence — this book will get you charged up!

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## Editorial Review

From the Back Cover

### *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
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- **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

About the Author

**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.

## Users Review

From reader reviews:

**Ray Shippee:**

As people who live in the particular modest era should be change about what going on or information even knowledge to make all of them keep up with the era that is always change and move ahead. Some of you maybe will probably update themselves by looking at books. It is a good choice for yourself but the problems coming to an individual is you don't know which one you should start with. This Electronics For Dummies is our recommendation so you keep up with the world. Why, because this book serves what you want and need in this era.

**Gayle Oconnell:**

Spent a free time and energy to be fun activity to complete! A lot of people spent their down time with their family, or their own friends. Usually they performing activity like watching television, planning to beach, or picnic from the park. They actually doing same task every week. Do you feel it? Do you need to something different to fill your current free time/ holiday? May be reading a book may be option to fill your free time/ holiday. The first thing you ask may be what kinds of book that you should read. If you want to try look for book, may be the guide untitled Electronics For Dummies can be fine book to read. May be it is usually best activity to you.

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