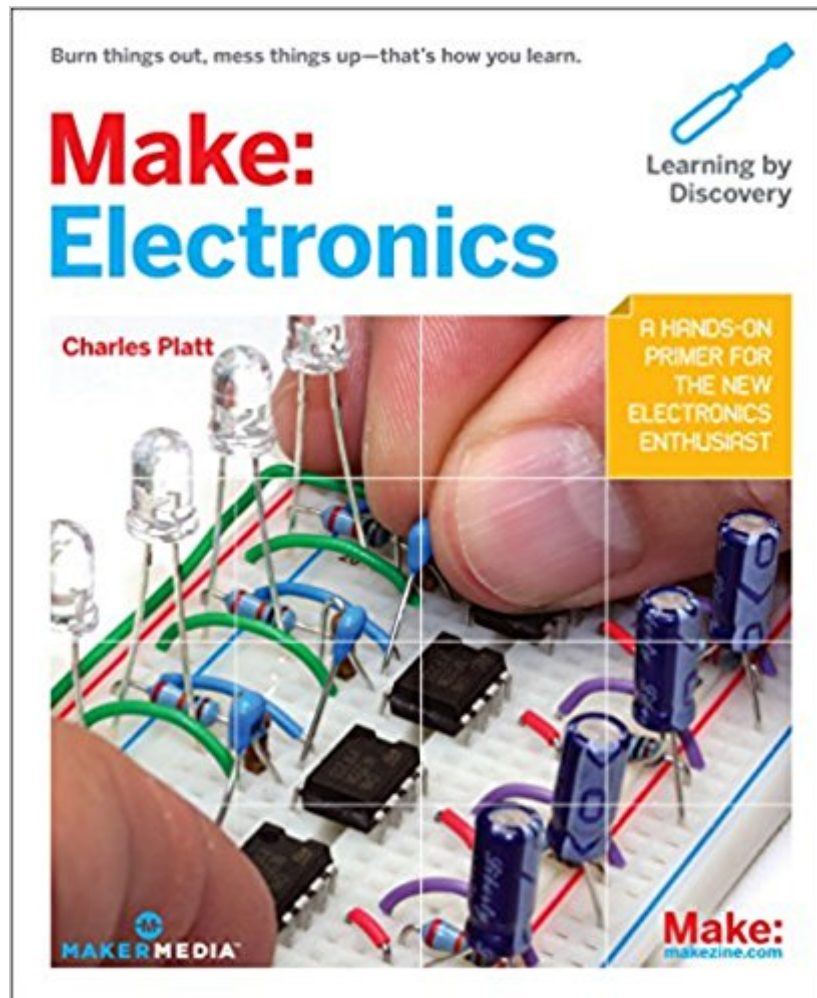




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Make: Electronics (Learning By Discovery)



Synopsis

"This is teaching at its best!" --Hans Camenzind, inventor of the 555 timer (the world's most successful integrated circuit), and author of *Much Ado About Almost Nothing: Man's Encounter with the Electron* (Booklocker.com) "A fabulous book: well written, well paced, fun, and informative. I also love the sense of humor. It's very good at disarming the fear. And it's gorgeous. I'll be recommending this book highly." --Tom Igoe, author of *Physical Computing and Making Things Talk*

Want to learn the fundamentals of electronics in a fun, hands-on way? With *Make: Electronics*, you'll start working on real projects as soon as you crack open the book. Explore all of the key components and essential principles through a series of fascinating experiments. You'll build the circuits first, then learn the theory behind them! Build working devices, from simple to complex. You'll start with the basics and then move on to more complicated projects. Go from switching circuits to integrated circuits, and from simple alarms to programmable microcontrollers. Step-by-step instructions and more than 500 full-color photographs and illustrations will help you use -- and understand -- electronics concepts and techniques.

Discover by breaking things: experiment with components and learn from failure

Set up a tricked-out project space: make a work area at home, equipped with the tools and parts you'll need

Learn about key electronic components and their functions within a circuit

Create an intrusion alarm, holiday lights, wearable electronic jewelry, audio processors, a reflex tester, and a combination lock

Build an autonomous robot cart that can sense its environment and avoid obstacles

Get clear, easy-to-understand explanations of what you're doing and why

Book Information

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Customer Reviews

O'Reilly has been churning out technical literature of unbeatable quality for as long as there has been a real IT industry. In recent years, they have branched into hobbyist and educational material, particularly including the Make series of periodicals and books that has not only reignited numerous hobbyist markets but also spawned its own set of conferences, the Maker Faires. DIY is enjoying a renaissance, and Make is at the forefront. I love pretty much everything about Make, but one of the most recent books under the Make brand exceeds even the high bar they have already set for themselves. I am referring to Charles Platt's Make:Electronics, which I have finally managed to pry from my 12-year-old's eyeballs long enough to review. I was sort of obsessed with electronics when I was a kid. I read anything I could get my hands on, which unfortunately ended up being the Radio Shack catalog and a set of musty library books that seemed as though they were written in a foreign language. I pored over schematics and took things apart, much to my parents' dismay, in a vain effort to figure out just what made all those wires and components tick. I would have to say that, overall, I failed. I did manage to occasionally fix broken radios and such, but it was always by luck in finding a loose connection or a physically broken component. I simply didn't understand what all the little pieces did individually, so it was impossible to fathom what they did in concert. Eventually I turned 16 and migrated to cars, which had actual moving parts, but a little part of me always pined to know how the solid state stuff worked.

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