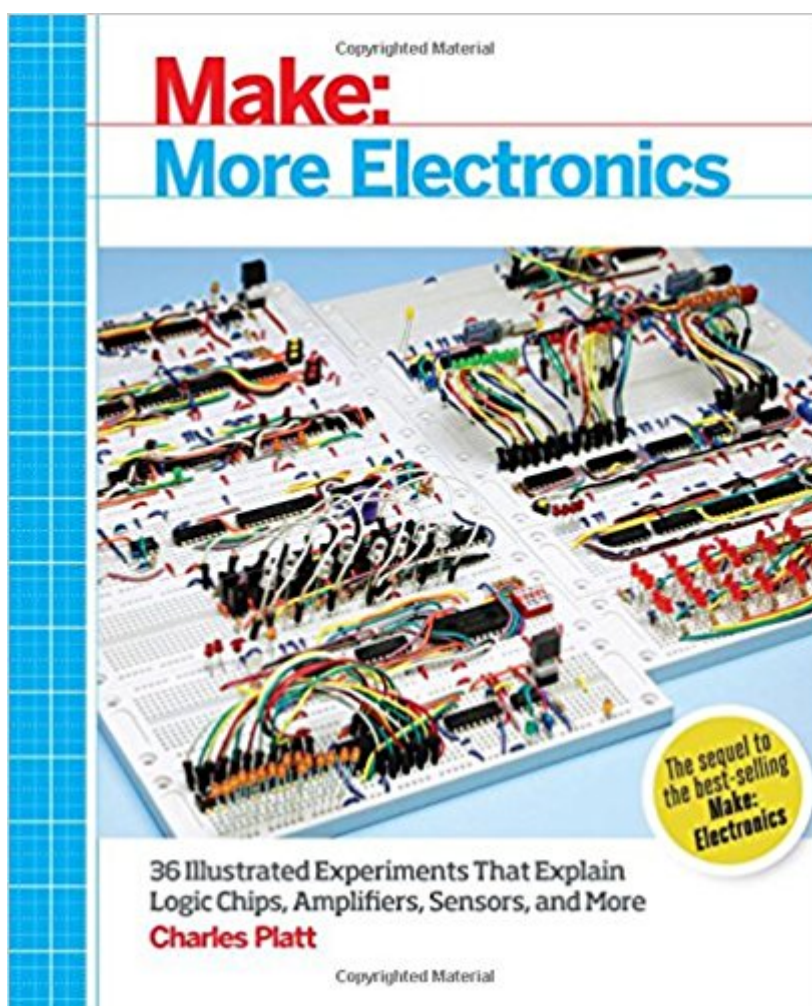


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# Make: More Electronics: Journey Deep Into The World Of Logic Chips, Amplifiers, Sensors, And Randomicity



## Synopsis

Want to learn even more about electronics in a fun, hands-on way? If you finished the projects in *Make: Electronics*, or if you're already familiar with the material in that book, you're ready for *Make: More Electronics*. Right away, you'll start working on real projects, and you'll explore all the key components and essential principles through the book's collection of experiments. You'll build the circuits first, then learn the theory behind them! This book picks up where *Make: Electronics* left off: you'll work with components like comparators, light sensors, higher-level logic chips, multiplexers, shift registers, encoders, decoders, and magnetic sensors. You'll also learn about topics like audio amplification, randomness, as well as positive and negative feedback. With step-by-step instructions, and hundreds of color photographs and illustrations, this book will help you use -- and understand -- intermediate to advanced electronics concepts and techniques.

## Book Information

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## Customer Reviews

Experiment with sensors, analog ICs, power, and motors

Charles Platt is a Contributing Editor and regular columnist for *Make* magazine, where he writes about electronics. He is the author of the highly successful introductory hands-on book, *Make: Electronics*, and is writing this sequel to that book in addition to volumes 2 and 3 of the *Encyclopedia of Electronic Components*. Platt was a Senior Writer for *Wired* magazine, and has

written various computer books. As a prototype designer, he created semi-automated rapid cooling devices with medical applications, and air-deployable equipment for first responders. He was the sole author of four mathematical-graphics software packages, and has been fascinated by electronics since he put together a telephone answering machine from a tape recorder and military-surplus relays at age 15. He lives in a Northern Arizona wilderness area, where he has his own workshop for prototype fabrication and projects that he writes about for Make magazine.

I am about a third of the way through this book and I am loving it. This is the perfect introduction to hands-on electronics. I was an engineering student in college (although not electrical engineering) so I was always kind of upset that after spending countless nights of my life doing all sorts of crazy math problems with respect to circuits, I didn't know something as simple as how a relay works, or how to build anything except maybe a simple circuit with a lightbulb and a resistor. I could design and build an RC circuit and calculate its time-constant but why in God's name I would ever NEED to build an RC circuit was beyond me...No more. This book lets you know that its safe to rip open a relay and see exactly why it works. It will give you a circuit design and then have you build it. It will explain why something is or isn't working, and why. This won't make you an expert in electronics, it is definitely on the simple side of things (like algebraic simplifications of mathematical models that are actually rooted in calculus or differential equations), but that's exactly what I was looking for. This book will empower you to build things. I am reading it side by side with the Electricity & Magnetism chapters of my old Physics textbook so I can make the connections with the real theory and the nastier side of the math, but I really couldn't be happier. In spite of years of college, this book is just now making me feel like I know something about electronics. Also, I recommend buying the kit that's sold for this book because it will save you a little money and a LOT of time. has been out of stock of it forever, but I went to the closest RadioShack and they had it for \$75. Other than that, you will need to buy Digital Multimeter, a pair of wire strippers that can deal with 22-gauge wire, a pair of wire-cutters, a pair of needlenose pliers, and a set of precision screw drivers. Seems steep but if you plan on making use of your new-found knowledge for the foreseeable future, you will be using these tools well after you've worked through this book.

This is the book that taught me electronics and ignited my passion for a new hobby. It is a very easy read and teaches everything through hands-on exercises. I would recommend this book without hesitation both to an adult wanting to learn fundamental electronics as well as for any parents who want their kids to learn electronics. It covers the fundamentals with just the right amount of theory

and offers lots of practical advice for a beginner on things like soldering and setting up an electronics workshop. The projects that this book will have you build are a lot of fun and at the end of the book I found myself wishing there were more projects like these I could do (luckily now there are, in *Make: More Electronics*, by the same author). The kits available from Makershed to go along with this book are also a godsend because trying to order all the electronic components needed by this book from an electronic supplier like Mouser can be very intimidating for a beginner. I had a few nits to pick with the first edition of this book: namely the use of TTL (7400LS) logic chips, which I found very finicky, and regardless are not much used anymore. Fortunately, the author has taken reader feedback seriously and addressed my complaint and those of other readers in the second edition. Another change I agree with is the switch in focus from Basic Stamp and Picaxe to Arduino in the section on microcontrollers. Arduino has revolutionized the hobbyist microcontroller landscape and has taken the maker world by storm to the extent that it is now the de facto standard for anyone getting started with microcontrollers. Finally, I found the fact that the author explicitly mentions the feedback from his readers and integrates the lessons learned from the the first edition into his text very refreshing. The fact that he has acknowledged that making good electronic circuits is a process, even for someone experienced as him, makes this book all the more accessible and educational.

This book is a great introduction to electronics. For me it provides the right amount of hands on circuit building work together with easy to understand explanations of why a circuit is being constructed in the way presented. The supporting diagrams are extremely helpful, providing a diagram showing a drawing of the components on the breadboard along with the corresponding schematic is a very good learning aid. The provided "shopping lists" for components and supplies helps the reader get organized in their pursuit to acquire a basic knowledge of electronics. Acquiring real knowledge of electronics and circuit theory does require the reader to additional resources, as the author himself indicates. But I think this is the best book around for those seeking a basic working knowledge of electronics.

The *Make:* series of books is simple, easy way to actually get some experience with electrical parts without killing yourself or burning down the house. Kudo's to Mr. Platt and the *Make:* team. They actually tell you how to economically get parts and test equipment. They do not worry about the theory behind the set of exercises. Because you do not need to know. Just treat it like a cook book, and have fun. Actually do some things. That is a wonderful approach to building some stuff. Ok, it is

for amateurs. Professional products are obviously not built this way any more. But this is similar to the approach to try out lots of options before spending a few million on the multi-layer board layout. That isn't that much fun anyway. And you can try some simple stuff such as programming the little controllers like an Arduino. (There I was upbeat, positive, and not sarcastic. I think that anybody who tries to be helpful and informative deserves an upbeat review. I won't get into why you would want to learn the theory behind all of this and maybe sit through a few college courses.)

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