



## Make: Electronics: Learning by Discovery

*Charles Platt*

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"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

A "magnificent and rewarding book. ... Every step of this structured instruction is expertly illustrated with photos and crisp diagrams. . . . This really is the best way to learn."

--Kevin Kelly, in Cool Tools

The first edition of Make: Electronics established a new benchmark for introductory texts. This second edition enhances that learning experience.

Here you will find unique, photographically precise diagrams of breadboarded components, to help you build circuits with speed and precision. A new shopping guide and a simplified range of components, will minimize your investment in parts for the projects. A completely new section on the Arduino shows you how to write properly structured programs instead of just downloading other people's code. Projects have been reworked to provide additional features, and the book has been restructured to offer a step-by-step learning process that is as clear and visually pleasing on handheld devices as it is on paper. Full color is used throughout.

As before, Make: Electronics begins with the basics. You'll see for yourself how components work--and what happens when they don't. You'll short out a battery and overheat an LED. You'll also open up a potentiometer and a relay to see what's inside. No other book gives you such an opportunity to learn from real-life experiences.

Ultimately, you will build gadgets that have lasting value, and you'll have a complete understanding of how they work. From capacitors to transistors to microcontrollers--it's all here.

Hans Camenzind, inventor of the 555 Timer (the world's most successful integrated circuit chip), said that "This is teaching at its best!" when he reviewed the first edition. Now the second edition offers even more!

## **Make: Electronics: Learning by Discovery Details**

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## **From Reader Review Make: Electronics: Learning by Discovery for online ebook**

### **Thaths says**

I studied Electronics throughout Highschool and University. However, my textbooks and teachers did not make all the concepts clear to me. This book filled some of the gaps in my knowledge ("Why was a transistor invented? I know what a 555 timer does. but why does it exist? Who invented it and why?", etc.)

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### **Robin Dong says**

Easy to understand, and also very interesting!

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### **Vladimir Prus says**

This is a very nicely illustrated and detailed introduction book about electronics. So, if you have no background, it's very recommended.

If you do have background, I am not sure. It might be too basic, and it also focus on building from discrete components. If you want to know how to hook things to your Arduino, it might not be very useful.

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### **Warren Gossett says**

This book gives a relaxed view of doing electronics without tearing your hair out. Of course you may have to switch components or discover that the little device or part you bought does not work exactly the way you read that it was supposed to. Of course it takes a bit more time to build and to test. Charles Platt's examples show that you can cope. Just be prepared and give your self time to ask questions and test the answers. Which may not be permanent answers. That is really good training for many experimental endeavours.

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### **Loïc says**

Great book; clear and detailed explanation of electronics using interesting accessible project.

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### **Alex Jahnke says**

Even (or especially) if you don't know a thing about electronics, this book is for you. No boring theory, but simple experiments guide you through the fascinating world of electronics.

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### **Nando says**

All explanations are very clear. Author has a good narrative style. Pictures are excellent. More web resources would have made it even better, as such as a few parts with deeper explanations (for example, why I shouldn't do experiments with rechargeable batteries).

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### **John F says**

Great way to learn electronics! I got more out of this book than I've gotten out of traditional approaches.

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### **Scuppers says**

It's the best intro to building with electronics that I can imagine.

My only frustration has been adapting one of the circuits to a breadboard version (i.e. the LED blinking circuit - "A Pulsing Glow"); it's more a function of my limitations though than the limitations of the book.

The fact that it's so much better than other electronics books out there, (possibly combined), merits its 5-star rating.

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### **6655321 says**

I have read through the entire book (and am going through again for projects that I think are helpful to what I am working on versus a rather broad base of topics) and I think what is really strong is how Platt really seems to want things to be accessible for his reader (versus some books which seem to want to obfuscate why things work); therefore no review

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### **Syed says**

Perfect and must have book for practical electronics geeks.

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### **Adrian McCarthy says**

One of the best educational books I've ever read. Very clear, very well organized, a logical progression of ideas. The "Learning by Discovery" approach has to be the best way to really learn this stuff. I'm so happy I've read this, and I'll keep it handy to return to in the future as well.

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## **Joseph II says**

The cover says it right: "Burn things out, mess things up - that's how you learn." This is what electronics is about. Charles Platt has given the electric shock to the Maker movement by writing an essential tome for novices and advanced experimenters alike. I love the O'Reilly standard fare inside the book (clear imagery, text boxes, photos, precise and concise explanations).

As for the imagery, there are schematic diagrams, bread-boarding layouts, hand drawings and color photographs - everything you need to "see" what is being described. The descriptions are apt and interesting as an book, totally demolishing any preconceived notions of "dry" electronic texts. Platt has a way with words, as he does with electronics. The book progresses from the simple to the more complex, keeping your interest as you go along. (and when you run out of projects, there's another book!)

The only complaint I had for this - I couldn't get a copy of this into my hands fast enough! I was lucky enough to check this out from a library beforehand. I bought my own copy a week later.

Bottom Line: Great for Maker novices and for advanced experimenters. You want to learn electronics? Get a copy of this book.

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## **AJ says**

A lot of useful ideas for beginners in electronics. Somewhat more intermediate hobbyists may find something in here for them as well, but probably not the more advanced types.

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## **Felipe says**

Years trying to get into electronics but the tutorials online or other books just didnt do it for me.

THis book explains very well some concepts that other wise you would not understand.

The funny thing here is that i got this book for free on [www.archive.org](http://www.archive.org) as pdf. when i was reading it i could not believe i got it for free.

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