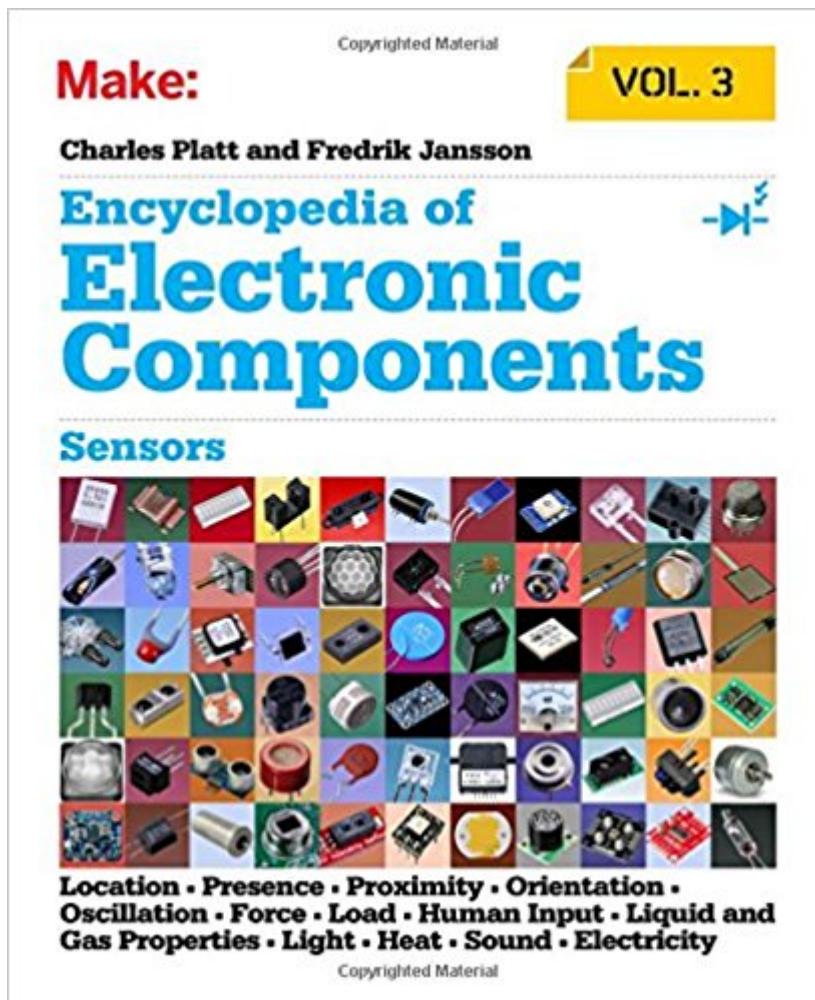


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Encyclopedia Of Electronic Components Volume 3: Sensors For Location, Presence, Proximity, Orientation, Oscillation, Force, Load, Human Input, Liquid ... Light, Heat, Sound, And Electricity





Synopsis

Want to know how to use an electronic component? This third book of a three-volume set includes key information on electronics parts for your projects--complete with photographs, schematics, and diagrams. You'll learn what each one does, how it works, why it's useful, and what variants exist. No matter how much you know about electronics, you'll find fascinating details you've never come across before. Perfect for teachers, hobbyists, engineers, and students of all ages, this reference puts reliable, fact-checked information right at your fingertips--whether you're refreshing your memory or exploring a component for the first time. Beginners will quickly grasp important concepts, and more experienced users will find the specific details their projects require. Volume 3 covers components for sensing the physical world, including light, sound, heat, motion, ambient, and electrical sensors. Unique: the first and only encyclopedia set on electronic components, distilled into three separate volumes. Incredibly detailed: includes information distilled from hundreds of sources. Easy to browse: parts are clearly organized by component type. Authoritative: fact-checked by expert advisors to ensure that the information is both current and accurate. Reliable: a more consistent source of information than online sources, product datasheets, and manufacturer's tutorials. Instructive: each component description provides details about substitutions, common problems, and workarounds. Comprehensive: Volume 1 covers power, electromagnetism, and discrete semi-conductors; Volume 2 includes integrated circuits, and light and sound sources; Volume 3 covers a range of sensing devices.

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Customer Reviews

Sensing the Physical World

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 a 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.

If you are a beginner, a hobbyist, or just someone who is interested in learning about different electronic components, you will absolutely enjoy this series. In these very inexpensive volumes, you will find that they provide the most essential, and up to date information, as to what a particular component is, how it is used, and what to expect from it. Most importantly, these books are extremely easy to use and to understand. Are you tired of having to go to a computer or portable device each time you want to look up a component? I find it much easier to just thumb through the index for what I'm looking for, than to have to perform a search online for each component every time. I am confident that you will be amazed as to just how much useful information that there actually is for each component in these "encyclopedias." This particular volume is number 3, and hopefully it is just another addition to many more to come. You don't need feel as though you have to buy all three of the volumes at once, or ever, but I'm a firm believer, that if you need something from one volume, I guarantee that you'll definitely need something from any of the others as well. I purchased volumes 1 & 2 at the same time, I just wish that volume 3 would had been available at the same time too; but I can appreciate that there is always new information being added. I highly recommend this series of encyclopedias to anyone who is interested in the world of electronics technology!

This book is pretty light on information. For the price, I expected something a little more detailed. It is definitely not an encyclopedia. It is more like an overview of the various types of sensors with a pretty decent description of the various designs and why you might select one or the other. I finished the book in a couple of hours. I was really disappointed.

Content was great but the kindle version was missing a table of contents. I had to resort to using the index. The table of contents is a big deal because this is quick reference guide. This volume is similar in layout as the previous two volumes.

I heartily recommend not just this book, but the entire three volume series on components that this book completes. As an electronics engineer, I'm in a position to judge the quality of these books and I've been blown away by how good they are ever since the first one came out. However, these books are not just for engineers but for everyone with an interest in electronics. This one describes the principals behind the sensors, but is unable to get into great detail as it covers such a range of components it would require a series of manuals to do that. But it exposes the reader to what's out there, how they work, how one uses them, what can go wrong and what one should watch out for. Fantastic book.

I have used this book to explain some electronic components to several people that are not into electronics. The descriptions are well written and the illustrations are great.

Handy as a guide and reference, but not learner's text for learning electronics. Definitely worth the price ... a keeper.

There is lots of great information. Good companion to the make project books. The other reference books are good too.

Just getting into electronics, this is a great book to help understand electronics. Highly recommend!

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