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Make: Encyclopedia of Electronic Components Volume 3: Light, Sound, Heat, Motion, Ambient, and Electrical Sensors: Sensors for Location, Presence, ... Light, heat, sound and electricity I think this book misleads me more than it has taught me. I remember as a child being frustrated by my inability to make schemes work, and I think the simplistic descriptions of this book are partly to blame. The book emphasizes electronic current instead of the usual current, as if it were somehow more instructive or more correct. In fact, depending on the materials the component is made of, the current can be carried by electrons (metal), ions (battery, electrolytic capacitors, neon lamps), holes (I think this book misleads me more than it taught me. as if it were somehow more instructive or more correct. In fact, depending on the materials the component is made of, the current can be carried by electrons (metal), ion (battery, electrolytic capacitors, neon lamps), holes (semiconductors) or even free protons (fuel cells). The usual current abstracts from this difference between the charge carriers, so you can focus on the big picture. Teaching everything back - as if only electronic current questions - just confuses things, without any benefit. The pictures really show how small electronic caricatures jump out of wires, stuck inside resistors, blocked by the FET field or get stuck on one side of the transistor, and no one can get to the other side, etc. The resistor slows down the entire current in the entire chain, not just the electrons on one side. Electrons don't all move in unison with each other, they bounce randomly, and only pure drift of billions of particles matters. It should be seen as a liquid, not as an individual particle. Maybe it would be fair to say that the book was a little over my head as a child. But the pictures are misleading and that's what I was focusing on at the time. There are problems with descriptions, too. While they make sense to someone already familiar with electronics, the book is aimed at people who are not. The earth, for example, is described as a dot in a chain at zero voltage, regardless of whether it is connected to the ground. I've struggled with these descriptions for years. It was only when I went to college that I finally started studying this stuff rather than poking in the dark and hoping that everything worked. (You can pick any point in the chain and call it earth. It's just a reference point to measure tension, and there are general conventions for which point you should choose. I think William Beaty's Electricity Misconceptions pages are much explain electricity in an intuitive but precise way. ... More Book Book ambitious goal: A full 128-page electronics course. It's not working. Over time, I guess this could be a valuable guide. It certainly packs a lot of valuable information, explanations and formulas that I can eventually use. It didn't leave me feeling much more knowledgeable in this area. For example, page 51 states that the load resistor causes the output to become voltage. Now finished the book, it still completely puzzles me. I learned a long time ago that you can't have one without the other! My initial reaction is that this handwritten book could have been written in one quarter of a number of pages was proven false. The illustrations used in everything are important to the text, and are really worth a lot of the words they displace. Hopefully the book will make a difference over time as I need a short, concise summary of specific subjects, or a different approach to explaining them. Meanwhile, I'll be looking elsewhere for my full electronics course. Start in Electronics - Forrest M. Mims, III. full course of electronics on 128 pages! This renowned electronics inventor teaches you the basics, takes you on a tour of analog and digital components, explains how they work, and shows how they fit together for different applications. Includes tips for assembling circuits and 100 electronic circuits that you can build and test. Forrest has written dozens of books, hundreds of articles, invented scientific instrumentation for NASA, and loves to share his knowledge with impatient students! This should have for the library all those interested in learning the basics of electronic theory and principles. Start with the basics - Learn about static electricity and how to make magnets and solenoids. Learn about direct current and AC. Then learn about the electrical circuits that use batteries and lamps. Basic electronic components - Learn how switches, repeaters, counters, resistors, capacitors, transformers are used. Diodes and transistors - These components are key ingredients in modern electronic circuits. Find out what they do and how they work. Integrated Circuits - From tens to many thousands of electronic components can be formed on tiny silicon chips. Digital Integrated Circuits - Learn the basics of digital logic gates with switches and transformers. Linear Integrated Circuits - Linear circuits only respond to the presence or absence of voltage. Line chains respond to a wide range of voltages, giving them many uses. Tips for assembling a chain - Learn how to use electronic components for time schemes and permanent circuits using wire and solder. 100 electronic circuits - Now you are ready to build any or even all of the 100 proven and work schemes included in the book. Scheme categories include basic, photonic, digital and linear schemes. 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