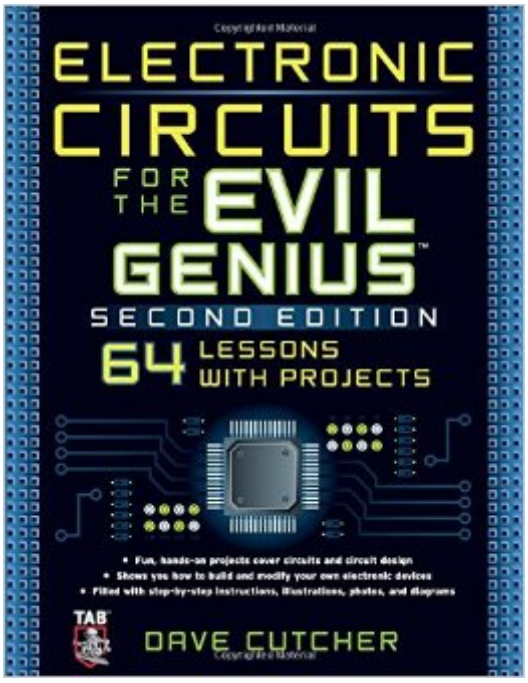
Electronic Circuits For The Evil Genius 2/E



Synopsis

The Fiendishly Fun Way to Master Electronic Circuits! Fully updated throughout, this wickedly inventive guide introduces electronic circuits and circuit design, both analog and digital, through a series of projects you'll complete one simple lesson at a time. The separate lessons build on each other and add up to projects you can put to practical use. You don't need to know anything about electronics to get started. A pre-assembled kit, which includes all the components and PC boards to complete the book projects, is available separately from ABRA electronics on . Using easy-to-find components and equipment, Electronic Circuits for the Evil Genius, Second Edition, provides hours of rewarding--and slightly twisted--fun. You'll gain valuable experience in circuit construction and design as you test, modify, and observe your results--skills you can put to work in other exciting circuit-building projects. Electronic Circuits for the Evil Genius: Features step-by-step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying electronics principles behind the projects Removes the frustration factor--all required parts are listed, along with sources Build these and other devious devices: Automatic night light Light-sensitive switch Along-to-digital converter Voltage-controlled oscillator Op amp-controlled power amplifier Burglar alarm Logic gate-based toy Two-way intercom using transistors and op amps Each fun, inexpensive Genius project includes a detailed list of materials, sources for parts, schematics, and lots of clear, well-illustrated instructions for easy assembly. The larger workbook-style layout and convenient two-column format make following the step-by-step instructions a breeze. Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

Book Information

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Customer Reviews

I really want to like this book. I think the format with the practical lessons is awesome. I bought a parts kit and have been working my way methodically through the projects, doing each one and taking notes as I go. I am a middle school science teacher with a masters in plant ecology, so electronics is not at all my field, though I am usually good at learning from books. I am stuck on Lesson 14: The Regulated Power Supply. It would seem the author forgot to put a "parts bin" in that lesson, and without it I do not know what size capacitor is needed. It is also unclear why no resistor is required with the LED, as this power supply produces 9V, and earlier in the book the author explains that a 470 ohm resistor is required to protect an LED from the full voltage of a 9V battery.This is pretty representative of what I have read so far. There are a number of confusing, contradictory explanations such as on page 50 where the author is using an analogy to explain how the Silicon Controlled Rectifier works. He repeatedly explains that a current on the gate opens a trapdoor and the path between the anode and cathode is latched open. What he means, I think, is that the current on the gate closes the electrical path between the anode and cathode allowing current to flow, and the path continues to conduct current, even when current to the gate is cut off.There a a lot of typos, and many confusing passages relating to the use of "open" and "closed" referring to switches and circuits. Sometimes the author uses open to mean the circuit is broken and sometimes he means open to the flow of electricity (closed). I would love to proof-read and edit this book, but as a non-expert, I am probably not the ideal person for the job.

Book 6) Broken Genius: The Rise and Fall of William Shockley, Creator of the Electronic Age (Macmillan Science) Low-Voltage/Low-Power Integrated Circuits and Systems: Low-Voltage Mixed-Signal Circuits (IEEE Press Series on Microelectronic Systems) Advances in 3D Integrated Circuits and Systems (Series on Emerging Technologies in Circuits and Systems) Principles of Transistor Circuits, Eighth Edition: Introduction and guide to the design of amplifiers, function generators, receivers and digital circuits Design of 3D Integrated Circuits and Systems (Devices, Circuits, and Systems) Evolutionary Electronics: Automatic Design of Electronic Circuits and Systems by Genetic Algorithms (International Series on Computational Intelligence)