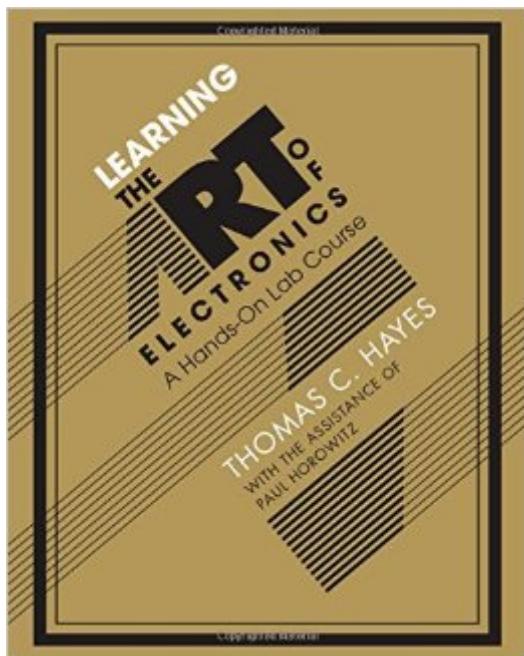


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# Learning The Art Of Electronics: A Hands-On Lab Course



## Synopsis

This introduction to circuit design is unusual in several respects. First, it offers not just explanations, but a full course. Each of the twenty-five sessions begins with a discussion of a particular sort of circuit followed by the chance to try it out and see how it actually behaves. Accordingly, students understand the circuit's operation in a way that is deeper and much more satisfying than the manipulation of formulas. Second, it describes circuits that more traditional engineering introductions would postpone: on the third day, we build a radio receiver; on the fifth day, we build an operational amplifier from an array of transistors. The digital half of the course centers on applying microcontrollers, but gives exposure to Verilog, a powerful Hardware Description Language. Third, it proceeds at a rapid pace but requires no prior knowledge of electronics. Students gain intuitive understanding through immersion in good circuit design.

## Book Information

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## Customer Reviews

Helpful book for those that might be struggling with some of the content found inside AoE, e.g., beginners, hobbyists, new students, etc. Much improved and expanded since the earlier "student manual" format. Readers will have the opportunity to learn about and build many interesting circuits (assuming they purchase the necessary parts). Like AoE it quickly jumps into conceptualizing circuits from a Thevenin perspective and soon after hops to RC circuits i.e., frequency sensitive voltage dividers, filters, etc. Which is fine for some beginners. But, beginners, hobbyists, etc., that might need a little more mathematical/conceptual hand-holding before jumping headlong into Thevenin equivalence talk, etc., might consider checking out books by Paynter, e.g., Electronics

Technology Fundamentals first, Practical Electronics for Inventors second, and then circling back around to this one and AoE. The one major fail would be the significant number of typos, reference errors, etc., liberally sprinkled throughout the book. Readers will need to check out the Errata list on the author's webpage. The book reads like one that was never read by an decent editor. It's quite challenging to see where any publisher editing was done. Readers and purchasers should be able to expect much more from academic book publishers...but alas...it looks like some of them are giving up when it comes to the MOST BASIC form of book publishing quality control i.e., actually reading the book and checking for obvious typos/errata before publishing and sending it out to the masses. Essentially, the book's content is great and will likely be helpful to many. Thumbs up and three stars to the author, he's done a great public and educational service.

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