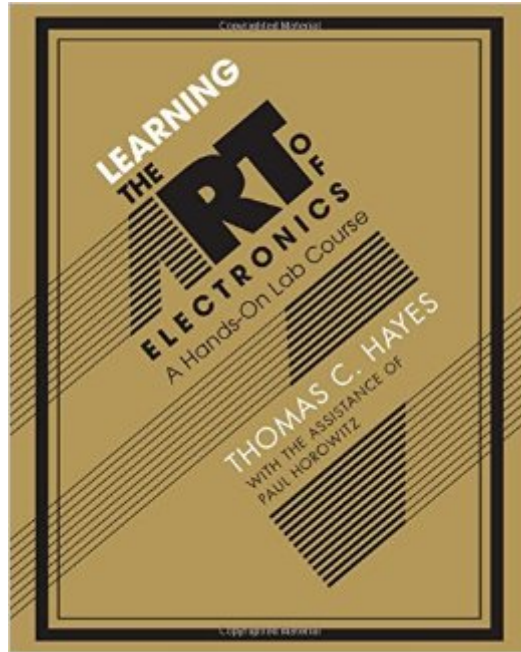


The book was found

# 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

Paperback: 1150 pages

Publisher: Cambridge University Press; 1 edition (March 2, 2016)

Language: English

ISBN-10: 0521177235

ISBN-13: 978-0521177238

Product Dimensions: 8 x 1.6 x 10 inches

Shipping Weight: 4.7 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (36 customer reviews)

Best Sellers Rank: #12,530 in Books (See Top 100 in Books) #6 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits](#) #1661 in [Books > Textbooks](#) #3657 in [Books > Reference](#)

## 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 a 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.

[Download to continue reading...](#)

Learning the Art of Electronics: A Hands-On Lab Course Learning: 25 Learning Techniques for Accelerated Learning - Learn Faster by 300%! (Learning, Memory Techniques, Accelerated Learning, Memory, E Learning, ... Learning Techniques, Exam Preparation) Map Art Lab: 52 Exciting Art Explorations in Mapmaking, Imagination, and Travel (Lab Series) Art Lab for Kids: 52 Creative Adventures in Drawing, Painting, Printmaking, Paper, and Mixed Media-For Budding Artists (Lab Series) Learn: Cognitive Psychology - How to Learn, Any Skill or Subject in 21 Days! (Learn, Learning Disability, Learning Games, Learning Techniques, Learning ... Learning, Cognitive Science, Study) Php: Learn PHP In A DAY! - The Ultimate Crash Course to Learning the Basics of PHP In No Time (Learn PHP FAST - The Ultimate Crash Course to Learning ... of the PHP Programming Language In No Time) The Home Lab: A Photo Guide for Anatomy Lab Materials Lab Values: 63 Must Know Lab Values for Nurses and Nursing (3rd Edition 2016) Tarascon Pocket Pharmacopoeia 2010 Deluxe Lab-Coat Edition (Tarascon Pocket Pharmacopoeia: Deluxe Lab-Coat Pocket) Digital Electronics: A Primer : Introductory Logic Circuit Design (Icp Primers in Electronics and Computer Science) Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) All-in-One Electronics Guide: Your complete ultimate guide to understanding and utilizing electronics! The Physics And Modeling of Mosfets (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology (Unnumbered)) Teach Yourself Electricity and Electronics, 5th Edition (Teach Yourself Electricity & Electronics) Python: Ultimate Crash Course to Learn It Well and Become an Expert in Python Programming (Hands-on Project, Learn Coding Fast, Machine Learning, Data Science) Python: Learn Python FAST - The Ultimate Crash Course to Learning the Basics of the

Python Programming Language In No Time (Python, Python Programming, ... (Learn Coding Fast with Hands-On Project 7) The Hands-on XBEE Lab Manual: Experiments that Teach you XBEE Wireless Communications Python: PYTHON CRASH COURSE - Beginner's Course To Learn The Basics Of Python Programming In 24 Hours!: (Python, Python Programming, Python for Dummies, Python for Beginners, python crash course) Python : The Ultimate Python Quickstart Guide - From Beginner To Expert (Hands On Projects, Machine Learning, Learn Coding Fast, Learning code, Database) SQL: Learn SQL In A DAY! - The Ultimate Crash Course to Learning the Basics of SQL In No Time (SQL, SQL Course, SQL Development, SQL Books, SQL for Beginners)

[Dmca](#)