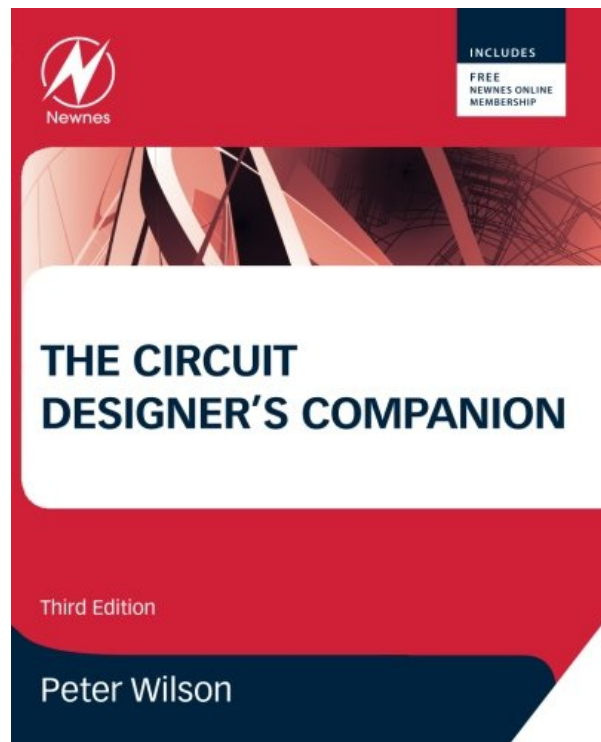
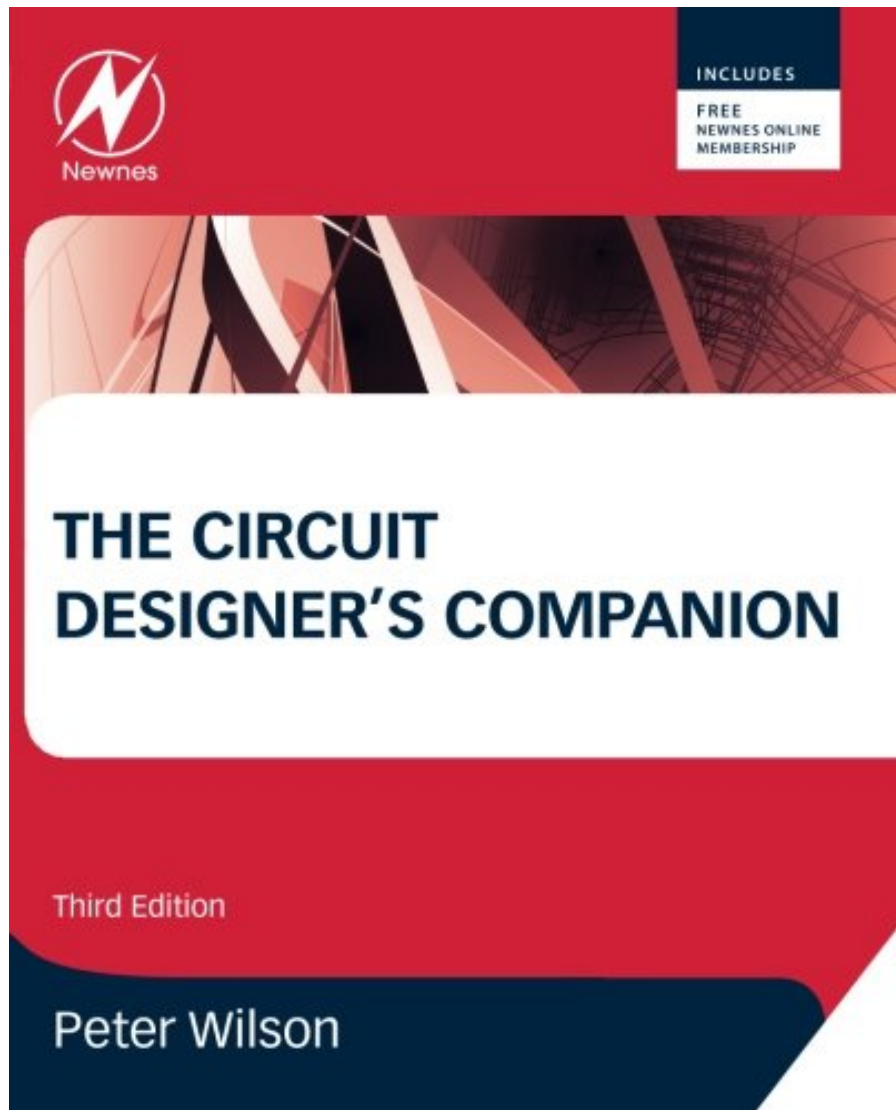


THE CIRCUIT DESIGNER'S COMPANION, THIRD EDITION BY PETER WILSON



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Review

"Wilson (electrical and electronic engineering, U. of Southampton) revises a textbook and handbook written by Tim Williams and previously published in 1990 and 2004. Some of the technological details have changed in the two decades, he says, but most of the underlying principles remain the same. There is material here for anyone from bright-eyed students to grizzled veterans, though not always the same information. Among the topics are printed circuits, active components, analogy integrated circuits, electromagnetic compatibility, and general product design." --Reference and Research Book News, Inc.

From the Back Cover

A compendium of practical advice and pointers – a unique masterclass in practical product design that bridges the gap between theory and implementation

- An invaluable companion for circuit designers and practicing electronics engineers – gives best practices, design guidelines and engineering knowledge gleaned from years of experience
- Includes practical, real-world considerations for components, PCBs, manufacturability, reliability and cost, enabling engineers to design and troubleshoot faster, cheaper and more effectively
- Contains new material on design tools, high-speed circuits, variability and tolerances, noise, simulation methods, and testing

The third edition of this classic work on circuit design gives engineers the understanding and practical know-how to produce optimized, reliable, cost-effective electronic circuits. It bridges the gap between the theoretical learning that most university courses provide and the practical knowledge and application that comes from years of experience. Topics covered include analog and digital circuits, component types, power supplies and printed circuit board design, plus new coverage of the latest advances in electronics since the previous edition published.

The Circuit Designer's Companion is ideal for Professional electronics design engineers, advanced amateur electronics designers, electronic engineering students and professors looking for a book with a real-world design outlook.

About the author

Dr. Peter Wilson is part of the Electronic Systems Design research group within the School of Electronics & Computer Science (ECS) at the University of Southampton. He worked for many years as a Senior Design Engineer in industry with Ferranti and as an EDA technical specialist with Analogy Inc. (Beaverton, Oregon). He is also a consultant for Integra Design Ltd in various aspects of embedded systems including design and modeling.

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THE CIRCUIT DESIGNER'S COMPANION, THIRD EDITION

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The Circuit Designers Companion, Third Edition, provides the essential information that every circuit designer needs to produce a working circuit, as well as information on how to make a design that is robust, tolerant to noise and temperature, and able to operate in the system for which it is intended. It looks at best practices, design guidelines, and engineering knowledge gained from years of experience, and includes practical, real-world considerations for components and printed circuit boards (PCBs) as well as their manufacturability, reliability, and cost. Organized into nine chapters, the book begins with a discussion of grounding and wiring of electronic or electrical circuits, when to consider grounding, and the main factors that must be taken into account when designing a new PCB. It then introduces the reader to passive components such as resistors and capacitors, potentiometers and inductors, and crystals and resonators, as well as active components like diodes, thyristors and triacs, bipolar transistors, junction field-effect transistors, metal-oxide-semiconductor field-effect transistors (MOSFETs), and insulated gate bipolar transistors (IGBTs). It also describes high-speed digital circuit design and analog integrated circuits, including operational amplifiers and comparators, and power supplies such as batteries. The final two chapters focus on electromagnetic compatibility and the latest advances in electronics, along with safety considerations in the design of electronic equipment. This book is an invaluable resource for circuit designers and practicing electronics engineers, electronic engineering students, and professors.

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-
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Most helpful customer reviews

14 of 16 people found the following review helpful.

Good update on a standard, although kinda pricey for what it is

By Joel Kolstad

I happen to have access to a copy of the second edition of this book courtesy of my employer. It's a great

reference when you're starting a new product or shifting to a new phase of product design (e.g., PCB layout, power distribution, EMC, etc.) since it clearly and thoroughly covers a lot of the basics. Ironically, many of the topics in it are *not* what a newly-minted electrical engineer coming out of school knows -- the information in the book is a lot of very *practical* advice about what really works (or not) and how things are really done (or not) in industry, which is a topic many schools don't address... or only address at a superficial level. Even for experienced engineers, it's a good resource to quickly clarify foggy memories of things like, "let's see... is it the X or Y capacitor types that are line to line?"

There's not as many additions to the third edition as you might expect. The new material is primary regarding programmable logic devices, ADCs, and a tiny bit on power management -- largely reflecting how ubiquitous programmable logic has become, how many more devices now need at least some real-world (analog) input, and how many more devices today are battery-powered, I guess. The "Introduction to the 3rd Edition" does mention this -- that it "has really been an exercise of revision rather than revolution." As far as I can tell, that largely just means that they re-drew some of the illustrations, re-formatted some tables, re-flowed the text to fit the now-slightly-larger page size... and hopefully went over the material with a fine-toothed comb to check for errors?

It is true that today most of what's in this book can readily be found on-line with just a little Googling. However, I still think it has significant value in that the book is so comprehensive, rather than having to bookmark/search for a dozen different web sites each covering the equivalent of a few chapters of the book, you just have to crack open this one tome and it's all covered.

Overall, while this is a good book, it's kinda hard to recommend at anything approaching the full-retail price of sixty bucks. Forty would be more like it, IMO (and happens to be about the eBook price)... and I'd be recommending it to everyone as a "must have" if it were thirty or less. As-is, I suggest trying to find a bargain on the second edition, which should be available as the 3rd edition "takes over" ... although ironically as of today (4/6/12), the second edition has a higher price tag!

9 of 10 people found the following review helpful.

I'm not an EE, and I don't play one on television...

By Kurt G. Schumacher

I'm a software guy. Putting a soldering iron in my hand is not the best decision you could make. But I put in a lot of time working for companies that are primarily hardware developers, so I had to learn something about electronics and circuit design. I mostly do website and graphics design these days, but I have some friends who are Electrical Engineers, and I like to be able to understand what they're saying sometimes. And I wanted something a bit more advanced than "Electronics for Dummies".

The Circuit Designer's Companion is way more advanced than that. Certainly more than I need, but I still found it very interesting when it wasn't making my brain hurt. And it's not totally irrelevant to software development; one of my first instructors in programming described a computer program as a "temporary circuit". I did learn a lot about electronics from reading it.

I showed this book to my EE friends, and they all wanted to steal it. I had some of them over to play cards one night when I had just got the book in. They saw it and spent the rest of the evening going through the book looking for the "new bits" while I worked on my website. Gotta love engineers.

Based on their recommendations, if you're in the electronics field, especially circuit design, you should have this book. (One of them has the first and second editions, and he still tried to steal mine!)

6 of 6 people found the following review helpful.

The slightest of drawbacks -- otherwise a brilliant source

By J

It should be noted that this very valuable engineering book was written and updated by expert British engineers, and so the section on PCB layout practices revolves around millimeters and not inches. Just a slight drawback if you're a U.S. engineer where the PCB industry is interpreted mostly using mils (0.001"). I don't mind adding the conversions as I go. Have had the book for only one week as a reference at work and I've already used it several times. Highly recommended. It is actually more useful than (and works faster than) the internet.

See all 26 customer reviews...

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Yeah, reviewing a book **The Circuit Designer's Companion, Third Edition By Peter Wilson** could include your good friends lists. This is one of the formulas for you to be effective. As known, success does not suggest that you have great points. Understanding and also understanding more compared to other will certainly offer each success. Beside, the message and also perception of this The Circuit Designer's Companion, Third Edition By Peter Wilson could be taken and also selected to act.

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