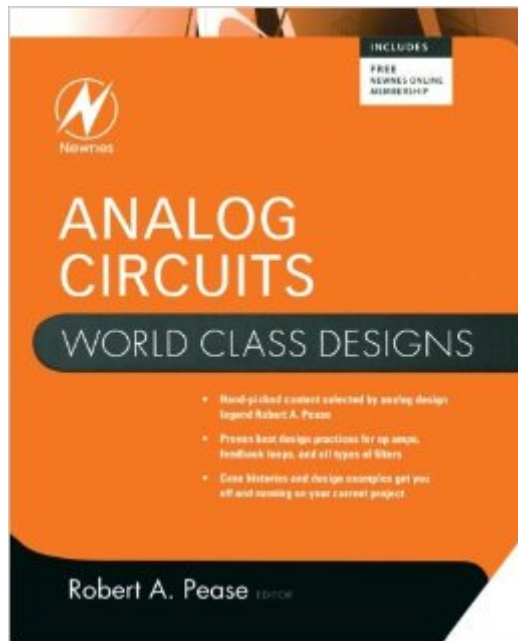


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# Analog Circuits (World Class Designs)



## Synopsis

Newnes has worked with Robert Pease, a leader in the field of analog design to select the very best design-specific material that we have to offer. The Newnes portfolio has always been known for its practical no nonsense approach and our design content is in keeping with that tradition. This material has been chosen based on its timeliness and timelessness. Designers will find inspiration between these covers highlighting basic design concepts that can be adapted to today's hottest technology as well as design material specific to what is happening in the field today. As an added bonus the editor of this reference tells you why this is important material to have on hand at all times. A library must for any design engineers in these fields. \*Hand-picked content selected by analog design legend Robert Pease\* Proven best design practices for op amps, feedback loops, and all types of filters\* Case histories and design examples get you off and running on your current project

## Book Information

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## Customer Reviews

World class? Here's a review of some of the chapters: Review of Feedback systems....Basic Operation Amplifier Topologies....review of passive components and a case study in PC board layout, 4 chapters if you can believe it--on filter design, a chapter on noise....all of these represent basics, rudimentary material an EE grad should have mastered...and can hardly be considered

world class. Some of the remaining chapters: How to Design Analog circuits without a computer....My approach to feedback design...Jim Williams "zoo circuit", while having their merits....can all be found in the "EDN series for design engineers". And to publish Pease's notes on Vbe.....Please, Pease.... "What's all this vbe stuff" can be found online for free. In summary, this text will help augment an undergraduate EE's education. It might be useful for non-hardware or digital designer types who have to stray out of their comfort zones, into the analog domain. But there is little in this text that is actually world class. Williams Zoo circuit is the only world class design. Everything else is either rudimentary, or a rip off of other previously published material. I downgraded the text to 3 stars because the text is somewhat deceptive as to what it purports to be. It should be more appropriately titled: "Analog Circuits: Basics To Be Mastered". The authors are competent, and well known in the field, so it wasn't downgraded any further.

I was disappointed because much of this material was published elsewhere 18 years ago in the Jim Williams art and science books or online. Analog Circuit Design: Art, Science and Personalities (EDN Series for Design Engineers) The best new material is from Bonnie Baker about sigma-delta ADCs and when to use them or SAR ADCs. This somewhat resembles a textbook, with some basic material stitching together the more advanced stuff, and could possibly be used in that way. Some chapters seem to have been updated in a half-hearted way, such as the discussion of passives which mentions SMT as an option, but then goes on to discuss carbon comp and carbon film as relevant technologies. And please give the whining about Spice a rest, or at least update it. Two AT clones and megabytes of unused software? We're way beyond that now man. It's gigabytes of unused software. Some of the basic tutorials seem uninspired too, like the "Review of Feedback Systems" with mandatory mention of the useless Routh criterion, etc. If you have a transfer function and want to see what it does, then get a computer dude. I understand it was once common to do division without a calculator, and for some reason they also still teach that in school.

Robert Pease is certainly one of the legends in analog circuit design. His contempt for SPICE simulation is quite well known in the community. But I have to disagree...I had to brush up on my filter design knowledge and I had a surprise: The section on BPF and notch filters contains errors... many. And they are not simply typesetting errors. For instance in one of the filters a value is labeled as 100pF, while it should be 100nF (P140). Then in another example he got the resonance frequency of the filter very wrong (P264). Resistor references are wrong labeled (P264) If he would have used SPICE he would have discovered that there is a sloppy mistake somewhere. The

prototype would not work either, but this would take a lot longer to solder up the circuit. Obviously /rap knows how to calculate filters, but he is so confident that he makes casual mistakes. But this all does not matter, because as soon as you make an effort to understand the subject matter, the errors become obvious. Someone should have proof-read the book before publishing however. Otherwise it is one of the best books on electronics I ever bought. It is not trivial and the title is misleading. "World class designs" ... anybody who thinks this is just a collection of circuits you can rip off... not so. This is a book which teaches the finer aspects of analog circuit design. Not really for beginners however, and there is some math you need to understand. He shares some knowledge in electronics, you will never learn in school. Also he talks about a general approach to any design (if not life in general). Do not dismiss it lightly

OK, it is not really a text book and it is not really (all) by the famous/infamous Bob Pease, but nevertheless it is a good book to have on hand if you need to design analogue circuits for the real world.

While many semiconductor mfg's were satisfied to supply sketchy data and pinouts, National Semiconductor always provided excellent applications notes. Here Mr. Pease and his colleagues continue this, along with the mentality that goes into WORLD CLASS engineering. KUDOS!

Any book by Bob Pease or Jim Williams is worth owning if you are involved in or just interested in analog design.

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