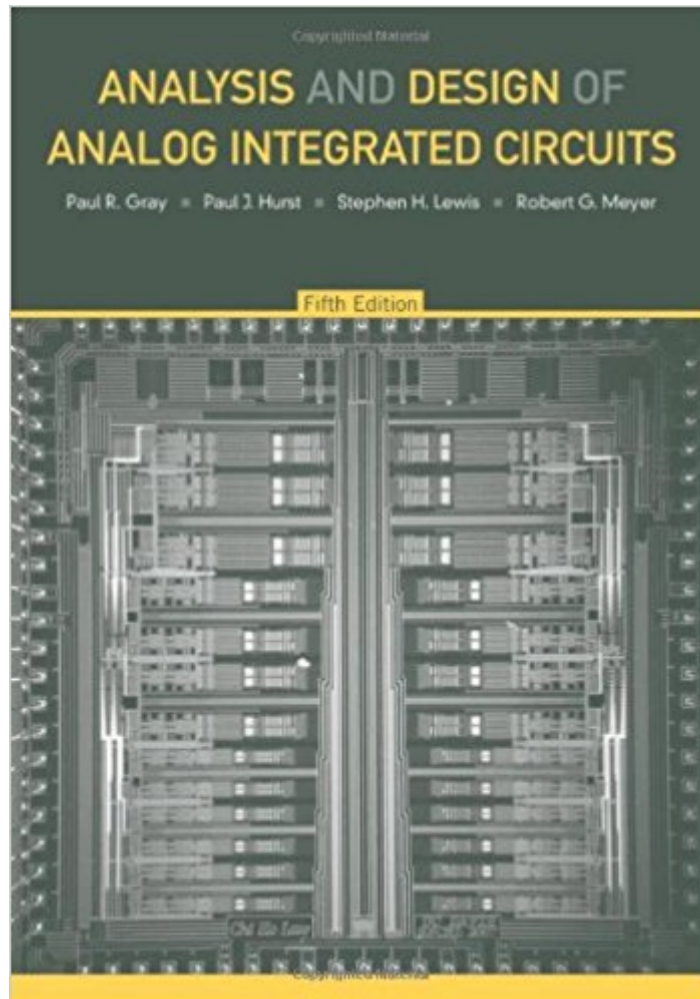


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# Analysis And Design Of Analog Integrated Circuits, 5th Edition



## Synopsis

This is the only comprehensive book in the market for engineers that covers the design of CMOS and bipolar analog integrated circuits. The fifth edition retains its completeness and updates the coverage of bipolar and CMOS circuits. A thorough analysis of a new low-voltage bipolar operational amplifier has been added to Chapters 6, 7, 9, and 11. Chapter 12 has been updated to include a fully differential folded cascode operational amplifier example. With its streamlined and up-to-date coverage, more engineers will turn to this resource to explore key concepts in the field.

## Book Information

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## Customer Reviews

This is one of the bibles that every analog engineer worth his salt will swear by. the authors cover quite a bit of material from device physics all the way upto fabrication with design in between. It is very well written as well so you don't get frustrated and can read it like a nove :-)For anyone serious about analog IC design, use this (along with Razavi) and you are done.

A very, very complete book that is extremely helpful for basic IC design concepts. However, part of the challenge associated with such a broad book is that some of the derivations aren't explained in overwhelming detail. For example, it can be a little annoying to figure out how the author gets from one line to the next when they don't always explicitly state that an approximation was made. The book is also a little short on examples, but the ones that are included are very useful. Finally, my biggest annoyance: The authors \*constantly\* reference equations and figures that are several

(hundred) pages away. This is good for keeping the book to a reasonable size, but it is extremely tedious to look up references from all over the book just to get through a paragraph of explanation. This book has got to be the worst offender I've come across - I doubt there is a single repeated equation or figure in the entire book. Even after those complaints, I'm giving it four stars because of the sheer amount of good, high quality information it contains.

This book is the typical 'bible' for analog IC design. It has lots of derivations and has the information that you'll likely need. However if you are a researcher and you are trying to follow derivations of equations etc, good luck. This book has the necessary info to proceed with a problem but it has this habit of referring back to other equations in the book and saying that a current equation is derived from it. The issue is the derivation steps are not given so you're left going where the heck is the derivation, these 2 formulas don't match up !! With that said, it does have a lot of examples and information. If you're after a more practical approach I'd recommend "CMOS Circuit Design, Layout, and Simulation, R. Jacob Baker" which is tailored more to the circuit design engineer.

The clarity is excellent. Just the right balance of text and equations. A pleasure to learn from! For example, in the chapter on Current Mirrors, the authors get right to the heart of the subject matter very quickly, then give you an in-depth analysis. The flow keeps your attention and the equations are easy to follow. Very well written and to the point. If you are serious about learning Analog Design this is the book for you.

New edition (the fifth one) of the classic work, now authored by four distinguished scientists and practitioners, is a very well written book. Decision to devote considerable proportion of the text to bipolar transistor circuits was a wise one, indeed, as the technology is still offering unique technical features whereas a number of qualified designed is shrinking quite rapidly. I personally adore the treatment of feedback in amplifiers: Explaining the difficult subject, often still not well understood by many, is worth any effort. Another subject of high importance which was given much attention, was the noise. As the low voltage/low power circuits do prevail, it is the noise level which sets limits of usability of analog circuitry.

This is a really good, fundamentals based text on analog circuit design. Its pretty much mandatory "second level" (after Art Of Electronics) reading. The book is useful for anyone doing analog circuit design, even if you aren't designing custom ICs. (Most of the topics it discusses are useful for

integrated or discrete design) It develops analog design from the fundamental working principals of transistors, discussing the fundamental building blocks used in most analog circuits. The book is very math heavy but doesn't require a deep understanding of physics. It doesn't have as many fully worked circuit examples as I would like to see. I would highly recommend this book for anyone studying or learning analog electronics.

It is a Bible for circuit designers. No part of this book is useless. I have to read it 10 times.

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