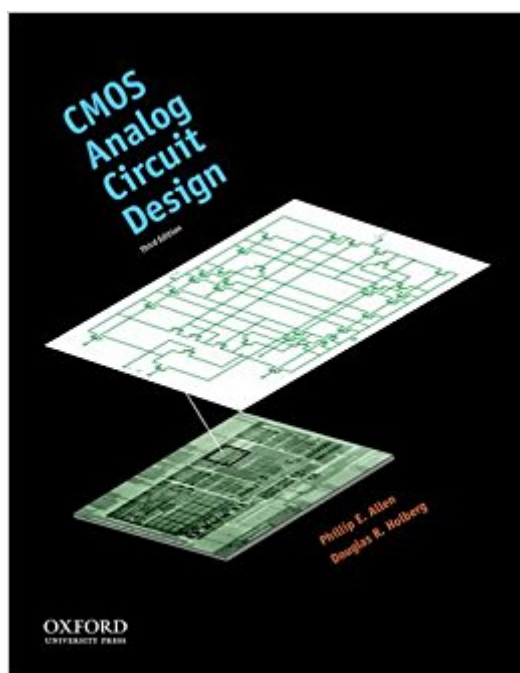


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# CMOS Analog Circuit Design (The Oxford Series In Electrical And Computer Engineering)



## Synopsis

Respected authors Phil Allen and Doug Holberg bring you the third edition of their popular textbook, CMOS Analog Circuit Design. Working from the forefront of CMOS technology, Phil and Doug have combined their expertise as engineers and academics to present a cutting-edge and effective overview of the principles and techniques for designing circuits. Their two main goals are: \* to mix the academic and practical viewpoints in a treatment that is neither superficial nor overly detailed\* to teach analog integrated circuit design with a hierarchically organized approach. Most of the circuits, techniques, and principles presented in CMOS Analog Circuit Design come directly from the authors' industrial experience, making the book a valuable resource for both practicing engineers and students taking courses in analog electronics or CMOS analog design. The trademark approach of Phil and Doug's textbook is its design recipes, which take readers step-by-step through the creation of real circuits, explaining and demystifying complex design problems. The book provides detailed coverage of often-neglected areas and deliberately leaves out bipolar analog circuits, since CMOS is the dominant technology for analog integrated circuit design. Appropriate for advanced undergraduates and graduate students with background knowledge in basic electronics--including biasing, modeling, circuit, analysis, and frequency response--CMOS Analog Circuit Design, Third Edition, presents a complete picture of design (including modeling, simulation, and testing) and enables readers to undertake the design of an analog circuit that can be implemented by CMOS technology.

## Book Information

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## Customer Reviews

"The greatest strength of the book is that it provides a clear learning path—from device, technology, and modeling, to building blocks, subcircuits, and applications."--Yun Chiu, University of Texas, Dallas "Best CMOS analog IC book."--Dong S. Ha, Virginia Tech "The coverage on SPICE simulations and layout issues is a welcome addition and makes the book unique from others."--Eun Sok Kim, University of Southern California "This is a great analog integrated circuit design book that includes coverage of the basic concepts of analog integrated circuits and characteristics. This thoroughly updated revision features new materials on technology, detail design issues such as noise and distortion. It is certainly unique and different from other books." --Yong-Bin Kim, Northeastern University

Phillip E. Allen is Professor Emeritus of Electrical and Computer Engineering at Georgia Tech. Douglas R. Holberg is a Technical Consultant.

I bought this book for my nephew, he got it for one of his classes in college, I assume it is pretty good, but as I said before, I did not read it. My nephew though seems to like it very much and suggested that I give it 5 stars, and after all, he is the one using it so he should know. I'm sorry that I cannot give details on this book.

I personally think there are easier to understand texts. Sedra and Smith does a much better job of systematically explaining concepts with less arm waving. I'm not sure if I got a bad copy but there seem to be a lot of errors in the problems and answers. The author tends to make assumptions/simplifications without telling the student to do so on some problems. Unfortunately Sedra and Smith is big and heavy, this text is easier to carry around. Although a small amount of material, this book does a good job of introducing the student to the IC layout for transistors, resistors, and capacitors. Some texts are overwhelming because of the amount of layout related material, this is a good start. The other thing that this text tends to do well is stress the body connection. However, sometime the author includes it in problems and other times he doesn't.

Very good book. No damages. Very important for any designers for reference.

Allen & Holberg is a book you should add to your library if you are a mixed signal designer or applications engineer. It is particularly strong in switched capacitor circuits (ch 9) and A/D and D/A conversion circuits (ch 10). It is weak on high speed analog design, and weak in developing the intuition needed for analog design, something Gray and Meyer spends time on. I feel that the text reads much better than Razavi. go to [...] for the book errata.

The best practically oriented analog design book

Excellent!

Good deal

Not a good book for a guy who just started with Analog IC Design. The best route to reach this books is through Sedra Smith, Razavi or Grey Meyer, Johns Martin and then Allen Holberg. This does not mean this is a very advanced textbook. The Authors have assumed that you know the basics of Analog Mos design and goes on building up on that. This text is very very useful for designers. It provides with perfect numerical examples coupled with design problems.

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