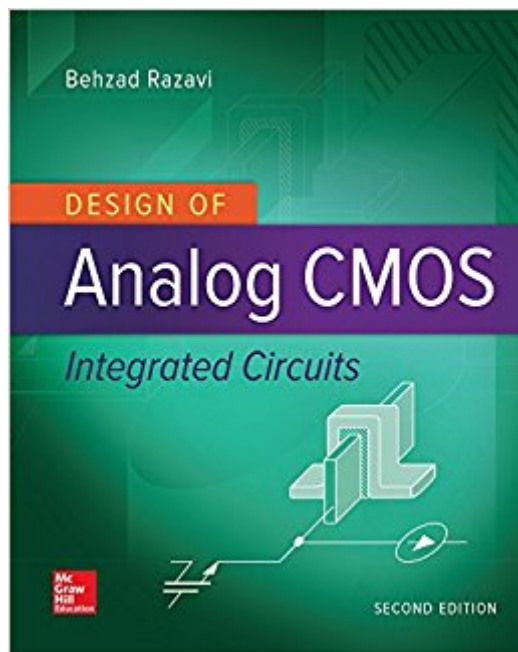




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Design Of Analog CMOS Integrated Circuits (Irwin Electronics & Computer Engineering)



Synopsis

Design of Analog CMOS Integrated Circuits by Behzad Razavi, deals with the analysis and design of analog CMOS integrated circuits, emphasizing fundamentals, as well as new paradigms that students and practicing engineers need to master in today's industry. Because analog design requires both intuition and rigor, each concept is first introduced from an intuitive perspective and subsequently treated by careful analysis. The objective is to develop both a solid foundation and methods of analyzing circuits by inspection so that the reader learns what approximations can be made in which circuits, and how much error to expect in each approximation. This approach also enables the reader to apply the concepts to bipolar circuits with little additional effort.

Book Information

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Customer Reviews

Behzad Razavi received the BSEE Degree from Sharif University of Technology in 1985 and the MSEE and PhDEE Degrees from Stanford University in 1988 and 1992, respectively. He was with AT&T Bell Laboratories and Hewlett-Packard Laboratories until 1996. Since 1996, he has been Associate Professor and subsequently Professor of Electrical Engineering at University of California, Los Angeles. His current research includes wireless transceivers, frequency synthesizers, phase-locking and clock recovery for high-speed data communications. and data converters.

I've used "Design of Analog CMOS Integrated Circuits, 1st Ed." as the textbook for my classes since

it was released. In my opinion it is the most intuitive and easy to understand of available references. Some few but important improvements were included into this second edition, mainly the form of appendices and "nanometer design notes", which has an entire chapter (11) dedicated to it.

One of the best books available to learn Analog Design fundamentals.

the book is pretty detailed and indeed its like a design standard to have this book as reference. I wouldnt recommend it for people with no experience with Analog CMOS design. Razavi's explanation sometimes assume you have idea where some expressions come from, the examples are mostly well explained and nothing than just a mere review of the basics can help you decode the book. I consider this book as one of those books that the longer you get experience on circuit design, the longer you value Razavi's insight.

I liked the app a lot. I did not like that I can not write with my apple pen on the pages. For technical books, I need to derive equations or write some quick math/comments. With apple pen it is more easy to do that.

This is the most intuitive book on cmos and analog design. The author is able to clearly explain the operation of a diode in a few sentences. For quick and intuitive understanding of simple to complex analog circuits, this is the book. However, I find this book lacking in some of the in-depth analysis (which might actually be why this book is so clear -- the author only shows the necessary details and results for clarity) for some circuits -- I often myself going over to other texts such as GHLM, which together with this text pretty much covers all of analog design. This is a must-have for any serious analog designer.

Simply, "the" CMOS analog design book. Any analog designer must read it thoroughly. It progresses through the subject in a natural and logical way. The depth of the covered subjects is great and serves well as a good start for students/designers approaching the subject for the first time. A good background about MOS devices is essential before reading the book.

Difficult SideRead Sedra/Smith book before trying this one. It is really hard to follow. It's hard to differentiate between small and large signal analysis, since author uses the same notation for both. Watch out! Good Side: Book is on CMOS analog ICs, so it's specific. Book is very thorough. Behzad

Razavi explains the function of each resistor in a circuit. Book teaches on a high level. Author put in much effort.

Good

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