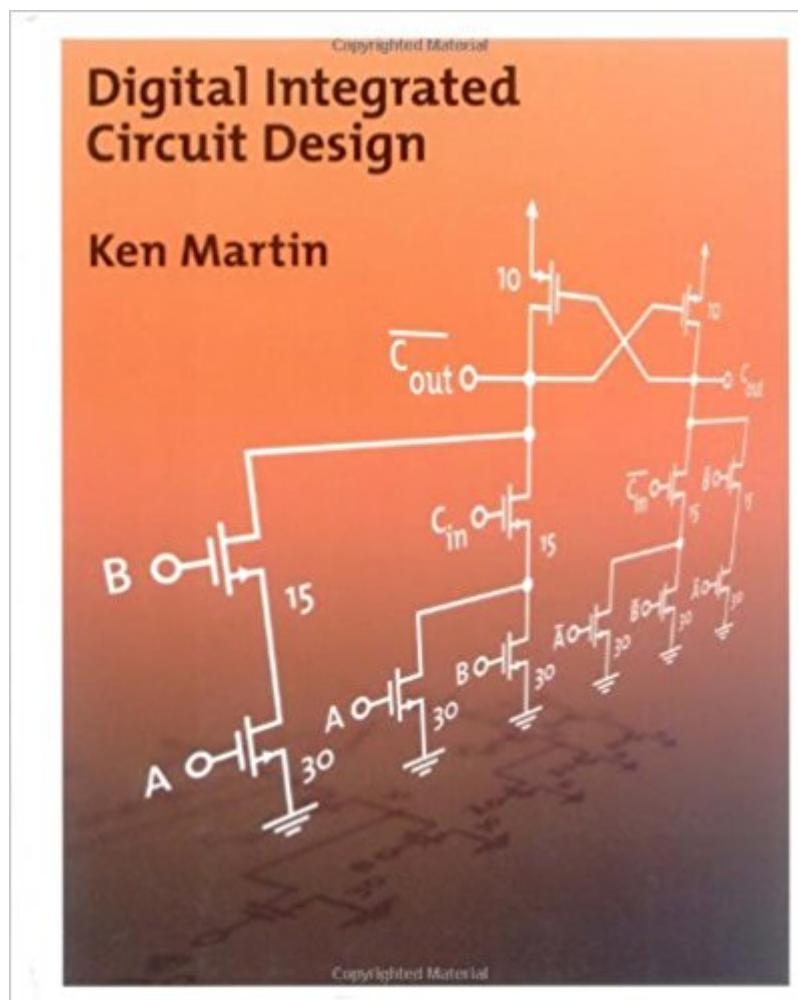


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# Digital Integrated Circuit Design (The Oxford Series In Electrical And Computer Engineering)



## **Synopsis**

Working from the fundamentals of transistor-level design and building up to system-level considerations, Digital Integrated Circuit Design shows students with minimal background in electronics how to design state-of-the-art high performance digital integrated circuits. Ideal as an upper-level undergraduate text, it can also be used in first-year graduate courses and as a reference for practicing engineers. Digital Integrated Circuit Design:

- Presents transistor-level details first, building up to system considerations
- Emphasizes CMOS technology but also includes in-depth explanations of designing in bipolar, BiCMOS, and GaAs technologies
- Features modern, well-designed examples and problems
- Covers important system-level considerations such as timing, pipelining, clock distribution, and system building blocks in detail
- Discusses key elements of semiconductor physics, integrated circuit processing, transistor-level design, logic-level design, system-level design, testing, and more
- Provides physical and intuitive explanations throughout
- Emphasizes conceptual thinking and design methodology over detailed circuit analysis techniques

## **Book Information**

Series: The Oxford Series in Electrical and Computer Engineering

Hardcover: 560 pages

Publisher: Oxford University Press (September 30, 1999)

Language: English

ISBN-10: 0195125843

ISBN-13: 978-0195125849

Product Dimensions: 9.3 x 1.3 x 7.5 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 3.9 out of 5 stars 4 customer reviews

Best Sellers Rank: #516,919 in Books (See Top 100 in Books) #76 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Integrated #99 in Books > Textbooks > Engineering > Electrical & Electronic Engineering #158 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design

## **Customer Reviews**

Ken Martin is at University of Toronto.

Great book,

This is a good introductory book on Digital Circuits and VLSI design. Apart from having a few jumps here and there, the book is definitely readable. I would recommend this book to you if this is your first course on digital circuits. However if you are really serious about this subject, you can read *Principles of CMOS VLSI Design* by Neil Weste and Kamran Eshraghain or *Digital Integrated Circuits* by Anantha Chandrakasan & Borivoje Nikolic. This book is definitely not for advanced readers.

The book seems to assume you've read ahead and know something about the future topics in the very beginning. I often found myself frustrated and scratching my head at some explanations. Many of the explanations could be worded / phrased better. I ended up using the book and accompanying online lecture notes by Rabaey as a reference all the time.

An excellent book for IC Designers. It keeps disappearing from my desk.

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Digital Integrated Circuit Design (The Oxford Series in Electrical and Computer Engineering)  
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