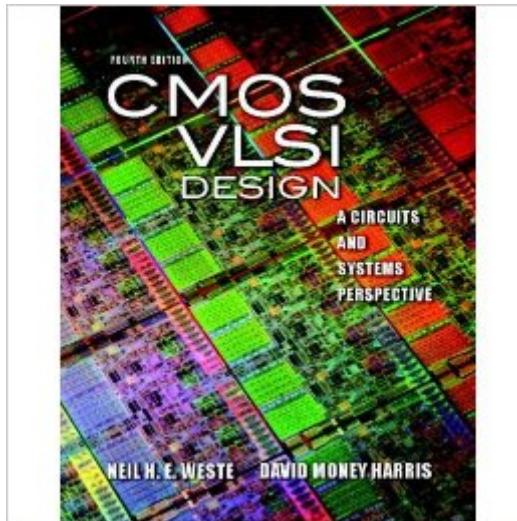


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CMOS VLSI Design: A Circuits And Systems Perspective (4th Edition)



Synopsis

For both introductory and advanced courses in VLSI design, this authoritative, comprehensive textbook is highly accessible to beginners, yet offers unparalleled breadth and depth for more experienced readers. The Fourth Edition of CMOS VLSI Design: A Circuits and Systems perspective presents broad and in-depth coverage of the entire field of modern CMOS VLSI Design. The authors draw upon extensive industry and classroom experience to introduce today's most advanced and effective chip design practices. They present extensively updated coverage of every key element of VLSI design, and illuminate the latest design challenges with 65 nm process examples. This book contains unsurpassed circuit-level coverage, as well as a rich set of problems and worked examples that provide deep practical insight to readers at all levels.

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Customer Reviews

I bought this book after finishing Rabaey's Digital Integrated Circuit(2nd) and have learned a lot of new knowledge closely related to industry. Wow, my personal experience is if you are new and interested in digital circuit, then you'd better read three books: 1 "DDPP" digital design, principle and practice (4th edition) This book is good for logic level design 2 Rabaey's Digital Integrated Circuit(2nd) This book is good textbook for VLSI Course 3 CMOS VLSI Design: A Circuits and Systems Perspective (4th Edition) This book contains information that is extremely useful for industry.

I read the 2nd edition many years ago and thought it was great for CMOS digital designs. I looked over the latest edition; it appears less useful for practicing engineers and becomes more of an introductory college textbook. Even as an introductory textbook, it is not a particularly good one. The 2nd ed was better organized and more succinct. I would keep my 2nd edition which is still useful and only slightly dated.

Not only does this book contain basic introductory information to digital circuits and VLSI design, it also has been updated with the latest research on important and interesting research topics in digital circuit and VLSI design. It cites many papers published within the past years. Great as a reference, a refresher for experts, or for undergraduates.

This book offers a good review of basics as well as more advanced CMOS design. While some sections are very lacking in examples, there is a lot of good information buried in the reading which keeps it interesting enough to actually read through (assuming you are pretty into what you do/read). The HDL examples are useful if you have access to the design tools you need to actually play with.

If you are looking at this book, chances are you do not have a choice in the matter of buying it - it is a mandatory book for your VLSI class. Just have two thoughts for you that should make the decision easier: 1- It is one of the better written engineering textbooks. It will help and it won't be too painful to go through. 2- probably has it cheaper than you'll find it elsewhere so just buy it.

It is a very excellent textbook that I think would benefit experienced engineers that are transitioning to a VLSI position than students who are taking a course in VLSI design. The upside is that the book does have a great reference section that will lead you to a more in-depth treatment of the topics covered in the book.

Credit must go where credit is due. This book is very well written with great explanations and fantastic examples. I would highly, no very highly recommend this to anyone doing integrated circuits.

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