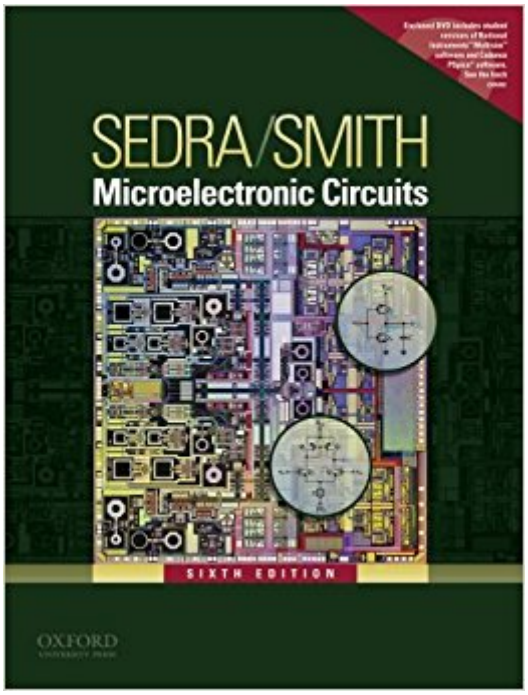
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Microelectronic Circuits (Oxford Series In Electrical & Computer Engineering)



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Synopsis

Microelectronic Circuits, Sixth Edition, by Adel S. Sedra and Kenneth C. SmithThis market-leading textbook continues its standard of excellence and innovation built on the solid pedagogical foundation that instructors expect from Adel S. Sedra and Kenneth C. Smith. All material in the sixth edition of Microelectronic Circuits is thoroughly updated to reflect changes in technology--CMOS technology in particular. These technological changes have shaped the book's organization and topical coverage, making it the most current resource available for teaching tomorrow's engineers how to analyze and design electronic circuits. Features:* Streamlined organization. Short, modular chapters can be rearranged to suit any class organization. Topics that can be skipped on a first reading, while the student is grasping the basics, or that look ahead to advanced industrial applications, are clearly marked. * Digital Integrated Circuits covered in a new, separate section, to make it easier to teach Computer Engineering students.* Parallel Treatment of MOSFETs and BJTs. 90% of the market works with MOSFETs, so this vital topic is placed first in the textbook. The chapters on BJTs and MOSFETs are exactly parallel, so instructors can teach whichever one first that they prefer, and speed through the second topic by concentrating only on the differences between the two transistors.* Frequency response in a separate chapter. Frequency response is now condensed into a single chapter, rather than being integrated within other topics.Ancillaries:Instructor: [Note: Instructor's Resource CD is bound in to ISM-ISBN 9780195340303]* Instructor's Solutions Manual contains typed solutions to all in-text exercises and end-of-chapter problems.* PowerPoint Overheads on CD contain all of the figures with captions, plus summary tables, from the main text.Student:* In-text CD contains SPICE circuit simulation exercises and lessons, and a free student version of two SPICE simulators: OrCAD PSpice and Electronics Workbench Multisim.* Companion website www.sedrasmith.org http://www.sedrasmith.org features SPICE models and links to industry and academic sites.

Book Information

Series: Oxford Series in Electrical & Computer Engineering
Hardcover: 1456 pages
Publisher: Oxford University Press; 6 edition (December 15, 2009)
Language: English
ISBN-10: 0195323033
ISBN-13: 978-0195323030
Product Dimensions: 10.2 x 2.1 x 8.4 inches

Shipping Weight: 5.2 pounds

Average Customer Review: 3.8 out of 5 stars 70 customer reviews

Best Sellers Rank: #40,411 in Books (See Top 100 in Books) #10 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics #12754 inÃ Â Books > Textbooks

Customer Reviews

Adel S. Sedra is Dean of the Faculty of Engineering at the University of Waterloo and former Provost of the University of Toronto.Kenneth C. Smith (KC) is Professor Emeritus in Electrical and Computer Engineering, Computer Science, Mechanical Engineering, and Information Studies at the University of Toronto.

The widely available paperback international edition (6th ed; ISBN13:978-0199738519) is sufficiently dissimilar to the hardback domestic edition that students should be warned against the purchase. This is the first time i've found an international edition that'd been edited in this manner. A few of the chapters are merged and reordered, and the problem sets are smaller and reordered. The exercises themselves are the same for the most part, but without a copy of the domestic text, a student is unable to know which to work for a class. If you're purchasing the book for your own reading, this really won't matter (though fwiw a paperback this ridiculously big seems like it'd be a pain to shelve or carry)I'm just giving it three stars because this isn't really a review.REVISION:It's been a few semesters and i've run through some other books in the interim. To make a brief review of the book itself, let me just say that i keep this one at my desk as a reference. The material is very complete and helps fill the gaps where other books have left off.

Well I am half through the semester with this book. And I can't express how much I hate it. I am now looking for a supplementary book. The examples explain next to nothing. The explanation of the theory is okay (not horrible,) but there is no justification for most of the math and formulas used. Much of the book's examples consist of here is the question and here is the solution, how they found it, who knows. There are also several incorrect solution to add to the excitement. In addition to this, nothing is explained in any particular order. Information you need to figure out an example problem in one section, won't be provided until several sections later, this is done w/o any acknowledgement or cues from the authors. The first day of class, our instructor warned us about how bad this book is, and it is by now play to see. Unfortunately I also have to use this book for the

following class next semester. It is hard to believe that this is a 6th edition.

This book is huge. It has a ton of information, but a few times it felt redundant. It seems that many times they would simply spend a lot of time explaining the processes for a particular case, and then the authors would spend little time explaining the concepts in general. Overall, it is a great book, though. I really liked it a lot.

I'm a Sophomore ECE major and was assigned this textbook for a 200 level course. The book feels like it is written for people who already know the material, but want a place to refresh their memory. I've put serious time and energy into this book trying to learn from it and it has been a nightmare. If you're a professor or grad student this may be a great source but I can't recommend it to anyone looking to learn anything.

This book is of very high quality (covers a lot of material, has an example for everything, accurate); I'm never getting rid of it.

I'll start off with the fact that I read this book in lieu of going to class, because my professor essentially taught from the slides that came with the teacher's edition.First, the good points:-It's a relatively easy read, compared to many textbooks. It's not impossible to understand, given that you've got a strong algebra background.-There are many examples to help with much of the text, and they go step by step through solving them.Next, the bad:-It's a very dry read, and with between 50-100 pages per chapter (They get longer as you go further into the book), a little humor now and then would help keep my attention better.-Also, they skip some algebraic steps in their derivations, and so I had to sit there for more time than necessary to figure out where exactly they were getting this equation from, despite them telling me which equations they used to get it. Don't get me wrong: I am very good at math, but when you skip 3 or 4 steps in between, it's going to make me do a double-take.-There are a lot of examples, but not enough. The end-chapter homework problems are much more advanced then their basic examples, and assume you understand things that you may not even realize applied in certain problems. Perhaps a supplementary text full of strictly examples would be a good addition to this one.

Purchased this book for an electronics class that is split up into two courses. My professor happened to already incorporate a lot that was directly from the text so I only had to read certain

passages on occasion. The material is very good, however my only complaint is the hardcover version is massive and not ideal to carry around.

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