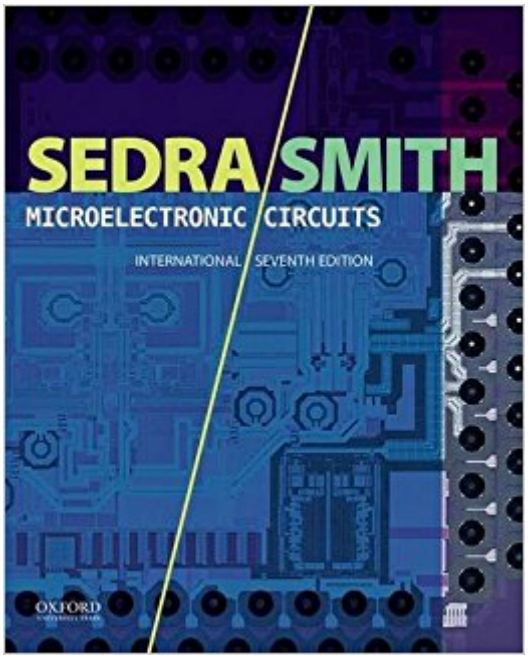
Microelectronic Circuits (Oxford Series In Electrical And Computer Engineering)



Synopsis

This 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. New to this Edition: A revised study of the MOSFET and the BJT and their application in amplifier design. Improved treatment of such important topics as cascode amplifiers, frequency response, and feedback Reorganized and modernized coverage of Digital IC Design. New topics, including Class D power amplifiers, IC filters and oscillators, and image sensors A new "expand-your-perspective" feature that provides relevant historical and application notes Two thirds of the end-of-chapter problems are new or revised A new Instructor’s Solutions Manual authored by Adel S. Sedra

Book Information

Series: Oxford Series in Electrical and Computer Engineering

Paperback: 1472 pages

Publisher: Oxford University Press, USA; UK ed. edition (November 19, 2015)

Language: English

ISBN-10: 0199339147

ISBN-13: 978-0199339143

Product Dimensions: 8 x 2.2 x 9.9 inches

Shipping Weight: 5.7 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 31 customer reviews

Best Sellers Rank: #41,814 in Books (See Top 100 in Books) #2 inÃ Â Books > Science & Math > Technology > Nanotechnology #1261 inÃ Â Books > Engineering & Transportation > Engineering

Customer Reviews

"Still the gold standard"--Elmer A. Grubbs, Northern Arizona University"I like the new treatment of the MOSFET and the BJT. The authors have broken up two chapters into three chapters, which does a couple of things. Chapters 5 and 6 allow the students to focus solely on the devices themselves. Chapter 7 allows students to focus on transistor amplification while at the same time observing the differences of amplifier topology when employing a MOSFET or BJT."--John Mankowski, Texas Tech University --This text refers to the Hardcover edition.

Adel S. Sedra is Distinguished Professor Emeritus of Electrical and Computer Engineering at the University of Waterloo and Distinguished Fellow, University Leadership, at Ryerson University. Kenneth C. (KC) Smith is Professor Emeritus in Electrical and Computer Engineering, Computer

Science, Industrial and Mechanical Engineering, and Information Studies at the University of Toronto.

I have also used the previous version of this book. The main difference between the 6th and 7th edition is the reorganization of topics and updated problems based on current technology. Some topics have been rewritten entirely. Now coming to the book it self, It needs no introduction. If you are new to electronics, this is the first book I would recommend. It starts from the very basics of the devices and goes to the designing of integrated circuits. In this edition the authors have focused on integrated circuits rather than discrete component circuits. I would definitely recommend it for any one starting out with analog/digital electronics. The other books which have studied so far, throws me out something, or some equations out of no where without any reasoning or explanation which will be difficult to comprehend without much details. Until now, I have never encountered any such difficulties in this edition. All the concepts and equations have been explained without any logical flaws. The problem set is very good, but the answers has not yet been updated in the website.

I bought the paperback edition of this textbook (it was around $65 when I ordered it). Arrived at my door a week later.The paperback is technically the international version. However, the hardcover domestic and the paperback international are identical. The only difference being a different cover and gray-scale printed pages.The text itself is super dense. Tons of info packed into the paragraphs, which is probably why it weighs more than a dictionary. First textbook I've read that I felt like every sentence I read I'm actually learning something. Puts concepts into simple terms and clearly and cleanly explains them. It also throws in some real-world measurements and what is the most common voltage or MOSFET oxidizer thickness, etc. after it explains the concepts.I'm sure this book is assigned to many microelectronics courses. It's probably a textbook that you will want to hold on to for awhile since the explanations are so thorough and precise (it's a good reference). And for the price of the paperback it's definitely worth it if you're a broke EE major like me.

I'd rate it around 3.8Good: For the most parts, the topics covered are pretty extensive for an introductory undergrad circuits text. The explanations are mostly clear, and provides some nice insights/explanations here and there so readers can google for further explanations if needed. Decent examples with clear explanations/steps.Bad: Has a habit of going into slightly more advanced concepts too early when readers are just getting used to a new concept, relies too much on explanations through KVL/KCL and not enough through insights for the analog portions. Not

enough explanations at times and readers need to do some google work on his own to fully understand.In conclusion, in terms of one single book for analog/digital circuits, this is still the best out there. I would recommend supplementing this with a book that offers more explanations and insights such as Fundamentals of Microelectronics.

It’s a wonderful textbook. I just wish that there was a paperback version or that it isn’t so expensive. There is no difference, at least for me, in saving money Buying-Now vs. Renting-Then-Buying when I wanted to keep a copy of the textbook.

Wonderful book !

Well written book with very good examples and exercises to workout

good

Good

Microelectronic Circuits (The Oxford Series in Electrical and Computer Engineering) 7th edition Laboratory Explorations to Accompany Microelectronic Circuits (The Oxford Series in Electrical and Computer Engineering) Microelectronic Circuits (Oxford Series in Electrical and Computer Engineering) Microelectronic Circuits (Oxford Series in Electrical & Computer Engineering) The Science and Engineering of Microelectronic Fabrication (The Oxford Series in Electrical and Computer Engineering) Fundamentals of Electrical Engineering (The Oxford Series in Electrical and Computer Engineering) Circuits and Systems: A Modern Approach (The Oxford Series in Electrical and Computer Engineering) Fabrication Engineering at the Micro- and Nanoscale (The Oxford Series in Electrical and Computer Engineering) Introductory Circuits for Electrical and Computer Engineering Electrical Engineering Reference Manual for the Electrical and Computer PE Exam, Sixth Edition Modern Digital and Analog Communication Systems (The Oxford Series in Electrical and Computer Engineering) Electric Machinery and Transformers (The Oxford Series in Electrical and Computer Engineering) Operation and Modeling of the MOS Transistor (The Oxford Series in Electrical and Computer Engineering) Operation and Modeling of the MOS Transistor: Special MOOC Edition (The Oxford Series in Electrical and Computer Engineering) Linear System Theory and Design (The Oxford Series in Electrical and Computer Engineering) An Introduction to

Mixed-Signal IC Test and Measurement (The Oxford Series in Electrical and Computer Engineering) Probabilistic Methods of Signal and System Analysis (The Oxford Series in Electrical and Computer Engineering) Analog Methods for Computer-Aided Circuit Analysis and Diagnosis (Electrical and Computer Engineering) CMOS Analog Circuit Design (The Oxford Series in Electrical and Computer Engineering) Digital Integrated Circuit Design (The Oxford Series in Electrical and Computer Engineering)