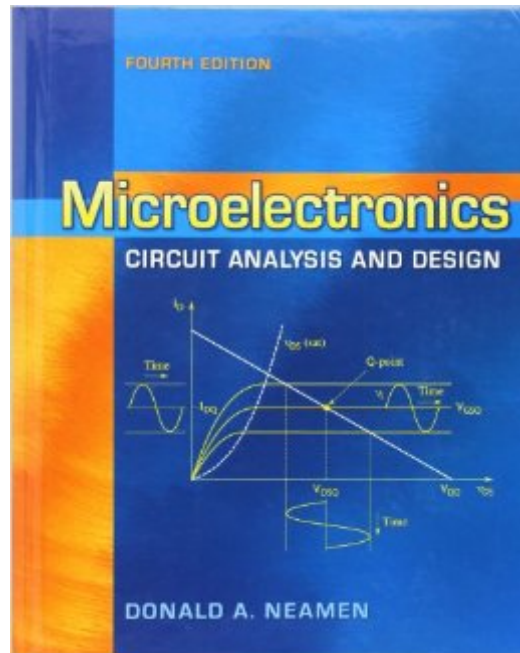# Microelectronics Circuit Analysis And Design

Synopsis

Microelectronics: Circuit Analysis and Design is intended as a core text in electronics for undergraduate electrical and computer engineering students. The fourth edition continues to provide a foundation for analyzing and designing both analog and digital electronic circuits. The goal has always been to make this book very readable and student friendly. An accessible approach to learning through clear writing and practical pedagogy has become the hallmark of Microelectronics: Circuit Analysis and Design by Donald Neamen. Now in its fourth edition, the text builds upon its strong pedagogy and tools for student assessment with key updates as well as revisions that allow for flexible coverage of op-amps.

Book Information

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Average Customer Review: 4.3 out of 5 starsÂ Â See all reviewsÂ (15 customer reviews)

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Customer Reviews

I've been sifting through this book to do a side by side comparison to what's basically this ones sister book by similar name, same publisher, but written by Jaeger & Blalock. I really like what I see. Worked through examples in each chapter and answers to chapter practice problems in the back to check that you're actually understanding the material. (Something Jaeger & Blalock is sorely lacking.) Is the book perfect? No. It doesn't look into some subjects the other book does and perhaps doesn't go as deep into some subjects either. So why five stars? Because it's actually trying to teach by analysis and example. The other book throws equations at you without explanation and relies too heavily on a professor to run through examples in lecture. This one lets you examine problems outside the classroom so you might show up prepared to ask directed

questions. Neamen even adds Jaeger & Blalock's 3rd Ed. book as suggested reading near the back so he must have felt he could better explain the same material. From what I've read thus far I believe he has.

This is one of the few books throughout my tenure at university in my pursuit of a Computer Engineering degree that I have actually enjoyed. The book is very well written, contains minimal mistakes in the questions and answers and generally handles itself very well. The colors are great and the general writing and explanations are very helpful in following through in electronics courses.There are PLENTY of questions to review and study, including worked out examples, "test-your-understanding" questions, exercise questions and chapter review questions typically used for homework. The book is sturdily constructed, and has plenty of color throughout and detailed explanations.It occasionally presents topics/concepts and suggests that you follow them, but then proceeds to forget that it exists from there on out (Amplifier Stiff-Biasing Criteria, for example), which is frustrating, but bearable.

Its half way through the semester as I write this, and thus far I can honestly say that this is a pretty good book. Equations are made clear as day and are explained pretty well. The text is very very dense, that is, its not at all easy to skim through. Every paragraph seems to be crammed with info, and since its the subject is very technical, that same paragraph usually requires reading twice, so if your professor assigns reading its my suggestion that its started a little earlier than the student might be used to doing.

The book is really good. Some of the exercises have mistakes...but are covered by the errata. However, what makes me give this a 4/5 is that it is really the hardest read you will ever have to do, a lot of new information being thrown at the reader every second which often times tends to confuse me as to what is important and what is not, which in most cases tends to get fixed by an example following each description. If you're going to read this book and use it for learning, what I recommend doing is first to make sure you have a lot of time in your hands because even the problems take a very long time to do, second thing is tofocus more on the sections you actually need, and lastly to make sure to grab solutions from somewhere in order to figure out how the techniques work in relation to how the problems are usually approached. To get through this book thoroughly it may take you a third of a year to possibly a year depending on how fast you read and are able to understand concepts so prepare for a challenge! In relation to some of the other books I

have read on the subject, I prefer this over any other that are considered standards and I would say it's probably the best in the market at the moment.

covers a lot topics. very good reference.to solve a given circuit problem on paper, it's good enough. But,it didn't guide you starting from scratch. This part you have to find from other books.

Well written explanations of the core principles of electronic instrumentation. Want to learn about MOSFETs, diodes, BJTs, and other circuit configurations? Buy. This. Textbook.

It's an okay book. Probably not the best at teaching concepts and is a pretty heavy read.

Quality of book is good as new. Same covered as classroom book. Very great price.

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