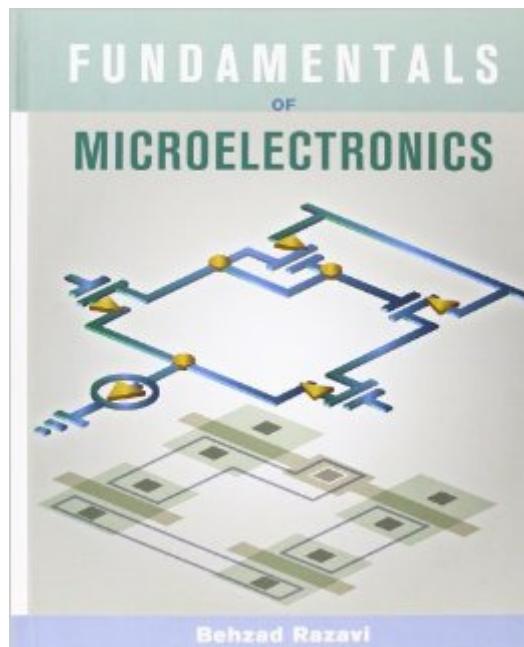


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# Fundamentals Of Microelectronics



## Synopsis

Designed to build a strong foundation in both design and analysis of electronic circuits, Razavi teaches conceptual understanding and mastery of the material by using modern examples to motivate and prepare students for advanced courses and their careers. Razavi's unique problem-solving framework enables students to deconstruct complex problems into components that they are familiar with which builds the confidence and intuitive skills needed for success.

## Book Information

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## Customer Reviews

I bought this book based on good reviews here, however, after finishing 10 chaps, I can say that:1. This book is actually a compilation of UCLA microelectronics lecture notes and UCLA ECE students are giving them a 5 star rating here at .com, which is misleading...2. Large amount of errors in examples, figures and text make some already abstract concepts even confusing.3. Certain Chapter's pace is too slow(Chap 4&5). it will make you feel saturated with details and become overwhelmed very quickly.4. Interpretation of some chapters can be very computational relying heavily on tricky mathematical deductions( serial approximation, limit approximation), it takes some time to get used to.5. This book contains decent amount of practical design info that is valuable to medium level readers. I wouldn't recommend this book for self-teaching, as using this error-laden 1st edition without guidelines from lecturer would be a grinding and nerve-wracking experience. A very tough book on a very tough subject.5 stars for the Contents page, 3 stars for the rest of it. Editing is abysmal at best.

This is an excellent introductory book on analog circuit analysis and design, and as other Razavi's books, it is crystal clear, easy to follow, and has a lots of worked examples. However, as its preliminary version of this book (ISBN 047007292X), I still found many typos in this "official" release of this book, especially in the later chapters, even after I applied the errata provided by the publisher! These typos ruined the quality of this would-be-classic book. I think the author and publisher/editor should be more diligent on posting a new errata and fixing these errors in the new printings.

Used this book for a class. This book is pretty well written and really help you understand the materials better. This book is pretty well organized and very easy to follow, although I wish it has better examples

The homework problems in this book are abysmal. Either that, or my professor is deliberately choosing every problem which is poorly defined, over-constrained, or in some other way ambiguous and un-solvable based on the given information. If I hadn't already been a practicing EE for over 5 years and was just taking this course as an undergrad, I would probably be re-considering my choice of career due to the pain and problems encountered while trying to complete homework sets chosen from this book. The text itself is reasonably clear and helpful, but do not expect to use the given problems to create functional homework sets. It's like somebody went through with a random number generator and changed all the numbers to create a new revision, never bothering to verify that the stated assumptions are still met. This book may have the most awful problems I've ever seen in a text.

wow, the amount of typos that I discovered (let alone missed) in the first 4 chapters is staggering. Wouldn't recommend.

Absolutely the best circuit design book up to and including differential amplifiers and current mirrors. Razavi teaches "by inspection", and after this book, you can glance at any op-amp or single-stage BJT or MOSFET circuit and instantly know the gain, input impedance, and output impedance. This alone is worth the purchase. There are other topics in the book too though, and they're all covered very well. While this book doesn't cover as much as say, Sedra and Smith or Grey and Meyer, what it does cover is about a million times more clear. The other books are so riggerous and..

stale-tasting, that they'll make you sick. Razavi takes the confusion out of circuits and shows how to make the solutions obvious by inspection. He does show the derivations too, so you can see the theory and reasoning. Overall, this textbook got myself and several others through our university's two transistor-design courses. I own the other books mentioned above, and they are basically garbage compared to this one. The only down side, the Razavi book doesn't have as good a selection of homework problems, so it's probably not the greatest "textbook", but it is definitely the greatest book for teaching. Don't hesitate to buy this if differential and cascode circuits confuse you -- the confusion will END when you read this book. It is \*the best\* book out there for this topic, and you will literally understand these circuits once you read and work out a few problems. What's not in here: Bandgap reference, more advanced current mirrors... some topics, but once you read and understand the basics, these more advanced designs will become obvious by inspection. Thank you Razavi.

This book arrived in a very good condition and in time. The readers looking for this book should know that there is a new version available.

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