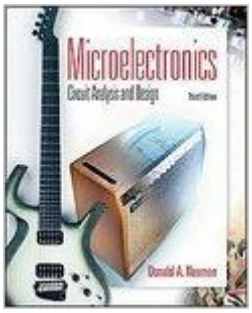
Microelectronic Circuit Analysis And Design (Electrical And Computer Engineering)



Synopsis

This junior level electronics text provides a foundation for analyzing and designing analog and digital electronics throughout the book. Extensive pedagogical features including numerous design examples, problem solving technique sections, Test Your Understanding questions, and chapter checkpoints lend to this classic text. The author, Don Neamen, has many years experience as an Engineering Educator. His experience shines through each chapter of the book, rich with realistic examples and practical rules of thumb. The Third Edition continues to offer the same hallmark features that made the previous editions such a success. Extensive Pedagogy: A short introduction at the beginning of each chapter links the new chapter to the material presented in previous chapters. The objectives of the chapter are then presented in the Preview section and then are listed in bullet form for easy reference. Test Your Understanding Exercise Problems with provided answers have all been updated. Design Applications are included at the end of chapters. A specific electronic design related to that chapter is presented. The various stages in the design of an electronic thermometer are explained throughout the text. Specific Design Problems and Examples are highlighted throughout as well.

Book Information

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Customer Reviews

This book is a very good book. Care has been taken to explain details very carefully. There is an extensive list of problems to tackle. But I'd suggest that a reader use this book in conjunction with

another more elementary book, Electroinc Principles by Malvino becuase for some readers the extensive usage of mathematical analysis might prove to be a 'turn-off'. However, for an undergrad course, one needs to know what is given in the book and when used in conjuction with Malvino, it makes a winning combination. Overall, a good book.

This book covers most of the standard topics in a third year university course in electronic circuits.It is accurate, but rather unimaginative. It does not do enough to describe the context in which circuits arise, nor to describe the design process. It also fails to tell the reader what comes next: that is, where is all this going, what is our next course, and so forth.Its strong point is a lot of problems that, if worked, should provide a good background for the student.

A detailed book. Covers a lot on MOS technology and explained how transistors are used in digital electronics. Some good examples too! This book covers those important elements which are left out by introductory or standard books on electronics.

The book is very descriptive in the area of theory but less so in the area of fully worked problems in use as a classroom textbook. The organization of the book material from one topic to another could be better.The second edition of the book is about the same as the first exept for the introduction of a website about the book and a cd-rom with slides and sample programs for electronics.

The book is certainly not for those who wish to understand the theory, without particular care for mathematics. The book is all math, all the time. To my annoyance, even the bolded vocabulary words are sometimes defined only by use of equations. The sample problems and proofs are intertwined with all of the theory so it is difficult to skip them when trying to first gain a bigger-picture perspective. Text is also neglected when it instead says "see such-and-such figure", as if the figure is explanation enough. As mentioned in another review, it also does not give the reader a clear view of where one is going, where all this is going to lead, how this will be applied in life, how the first chapter will bring you steadily toward the last.I will say though that the material is not wrong, and it covers all the basic principles. The numerous equations would be helpful if I were more focused on studying for an exam, rather than simply learning the material.

I took Electronics I & II from Don Neaman. He is a very remarkable person with a strong will. I remember the sheer brutality of his exams, which I think were possibly just sadist punishment for his

students in the last year before he reitred. It was one of the best courses I've ever taken on any subject, I still feel like these courses were a turning point for me in electrical engineering and I have applied this knowledge in both academia and industry. This is a great college textbook on electronics, and is at the sophomore/junior level, for students who have already taken elementary circuit design I & II. You may need a tutor to guide you on the concepts/applications of these transistor-based designs, if you are trying to teach yourself.

Excellent desktop reference for technicians and engineerson circuit analysis!

Is a great book but sometimes confusing if you don't know much already.

(The Oxford Series in Electrical and Computer Engineering)