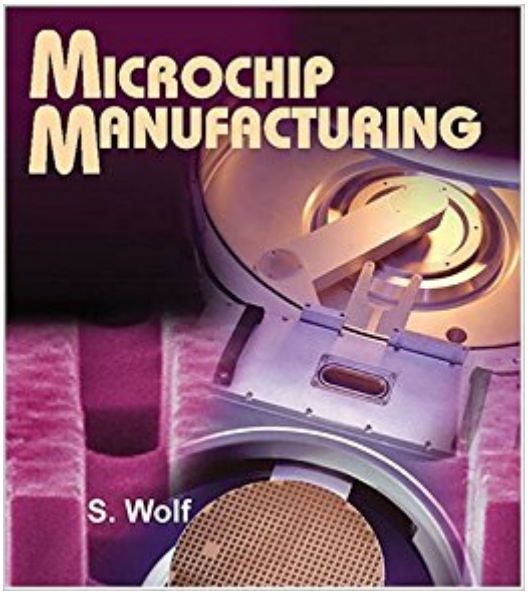
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Microchip Manufacturing



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Synopsis

Text provides an introduction to microchip manufacturing for undergraduate students and those in technician-training programs. Includes index, glossary, chapter summary, and problems. Fully illustrated in color. DLC: Integrated circuits--Very large scale integration--Design and construction.

Book Information

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Customer Reviews

The book is good as a survey of manufacturing for the inquisitive, however it has a stark lack of examples or computation in the text and as such I feel it is unqualified to be a strong educational text. If you want to get into the meat of microchip manufacturing, you have to refer to the appendices, and refer to several chapters. The overall computational information is scattered throughout the book meaning you have to search for what you need many times. I will note that it does have many great images that help show the user many tools and concepts that you couldn’t get or see without having worked in a clean room.I recommend this book if you’re curious about the field, but not if you plan on getting into the field. In the later case you should invest in something much more comprehensive.

This book worth it much better than Campbell although I used that as a reference. It’s easy to read and get’s to the point with plenty of calculations.

This text covers silicon manufacturing processes very well. It doesn’t include many calculations, but

does introduce most standard technology.

I used this book for a senior level engineering class on device fabrication and I was very disappointed. The book reminds me of a junior high school history book. It is light on technical details, but full of pretty pictures. I would recommend Silicon VLSI Technology: Fundamentals, Practice, and Modeling by Plummer and Deal instead.

I think this book provides a very useful overview of chip manufacturing for someone new to the manufacturing environment. I recommend it particularly for a university student working in university-industry cooperative education, or simply a student with a part time job in a fab. Such a student would presumably have some understanding of the physics of semiconductor devices, but little exposure to the wide variety of technology that is used to produce IC's. For such a student, this book provides a nice bridge between the academic and manufacturing environments. Unfortunately, I find it difficult to imagine using the book by itself in a stand-alone academic course because it covers so many topics--several of which could have independent courses of their own. This is the reason for only 4 stars.In sum, this book provides an excellent and needed connection between the depth obtained from formal education and the breadth obtained from on-the-job experiences.

I've been teaching an undergraduate IC course for 10 years, and have used pretty much all the textbooks out there at one time or another. Microchip Manufacturing is the best one I've found. Mine is a pretty intense hands-on course where students build their own working ICs, and the treatment of this book is just right. Some of the other books are needlessly intimidating for undergrads (one book was described to me by a student as drinking from a fire hose!). This covers the basics and covers them well. The only issue I have is that I have to keep reminding the students to look in the appendices, since this is where the hard-core stuff is located.Great book, I recommend it.

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