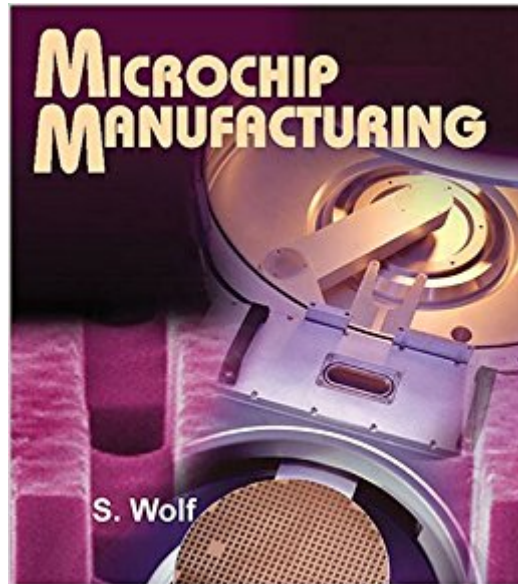




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Microchip Manufacturing



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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Microelectronics #114875 inÂ Books > Textbooks

Customer Reviews

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.

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.

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.

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