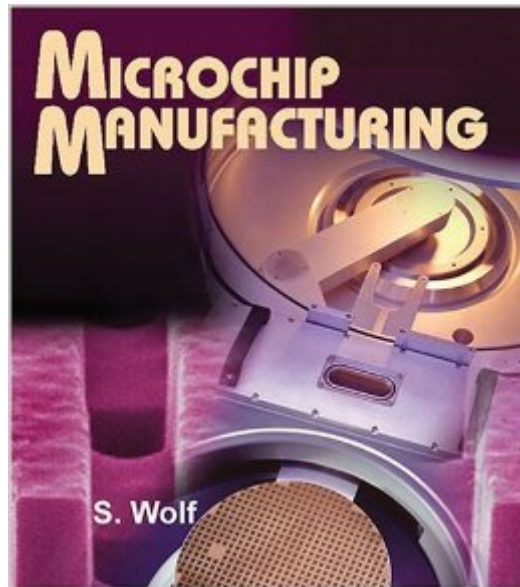# Microchip Manufacturing

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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Average Customer Review: 3.5 out of 5 starsÂ Â See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #584,973 in Books (See Top 100 in Books)   #90 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Semiconductors   #170 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > 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.

Microchip Manufacturing Additive Manufacturing: 3D Printing for Prototyping and Manufacturing Understanding Additive Manufacturing: Rapid Prototyping, Rapid Tooling, Rapid Manufacturing Beginner's Guide to Programming the PIC24/dsPIC33: Using the Microstick and Microchip C Compiler for PIC24 and dsPIC33 (Volume 1) Intelligent Sensor Design Using the Microchip dsPIC (Embedded Technology) Demystifying The Microchip PIC Microcontroller For Engineering Students: Following The KISS Principle Microcontroller Programming: The Microchip PIC The Chip : How Two Americans Invented the Microchip and Launched a Revolution Microchip Fabrication, Sixth Edition: A Practical Guide to Semiconductor Processing Microchip Fabrication: A Practical Guide to Semiconductor Processing 3D Printing and Additive Manufacturing: Principles and Applications (with Companion Media Pack) - Fourth Edition of Rapid Prototyping 3D Printing: The Next Technology Gold Rush - Future Factories and How to Capitalize on Distributed Manufacturing The 3D Printing Bible: Everything You Need To Know About 3D Printing (3D Printing, 3D Modelling, Additive Manufacturing, 3D Printers Book 1) Microprocessor Design: A Practical Guide from Design Planning to Manufacturing (Professional Engineering) Good Manufacturing Practices for Soap and Cosmetic Handcrafters Smart Card Manufacturing: A Practical Guide Product Design for Manufacture and Assembly, Third Edition (Manufacturing Engineering and Materials Processing) Design for Manufacturing: A Structured Approach Contamination-Free Manufacturing for Semiconductors and Other Precision Products X-Ray Metrology in Semiconductor Manufacturing