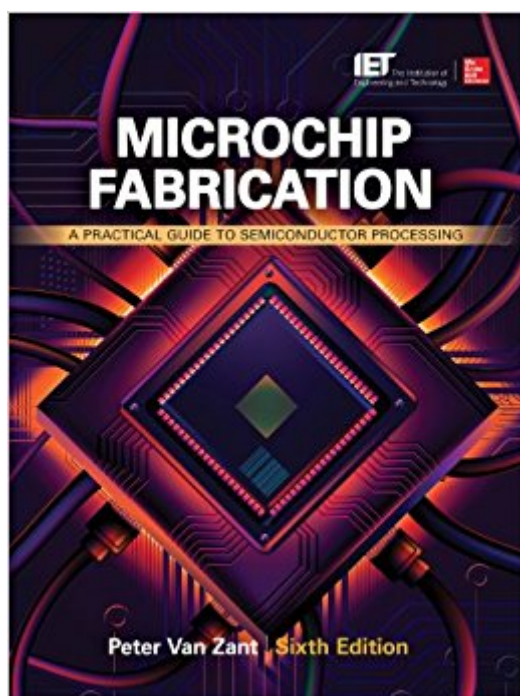


The book was found

# Microchip Fabrication, Sixth Edition: A Practical Guide To Semiconductor Processing (Electronics)



## Synopsis

The most complete, current guide to semiconductor processing Fully revised to cover the latest advances in the field, *Microchip Fabrication, Sixth Edition* explains every stage of semiconductor processing, from raw material preparation to testing to packaging and shipping the finished device. This practical resource provides easy-to-understand information on the physics, chemistry, and electronic fundamentals underlying the sophisticated manufacturing materials and processes of modern semiconductors. State-of-the-art processes and cutting-edge technologies used in the patterning, doping, and layering steps are discussed in this new edition. Filled with detailed illustrations and real-world examples, this is a comprehensive, up-to-date introduction to the technological backbone of the high-tech industry. **COVERAGE INCLUDES:** The semiconductor industry Properties of semiconductor materials and chemicals Crystal growth and silicon wafer preparation Wafer fabrication and packaging Contamination control Productivity and process yields Oxidation The ten-step patterning process--surface preparation to exposure; developing to final inspection Next generation lithography Doping Layer deposition Metallization Process and device evaluation The business of wafer fabrication Devices and integrated circuit formation Integrated circuits Packaging

## Book Information

File Size: 29419 KB

Print Length: 577 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: McGraw-Hill Education; 6 edition (October 22, 2013)

Publication Date: October 22, 2013

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00GWSY118

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #388,482 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #6

Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical &

Electronics > Solid State #19 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Semiconductors #20 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State

## Customer Reviews

This is a 6th edition but the updating is erratic. There are many sections where you will see the discussion of methods end with 0.35 micron processes. Yes, other sections go further, but it leaves you guessing about the usefulness of the information. There are also places where there are typos and diagrams with wrong labels that must have been there for a decade. I don't feel at all like I understand how a 22nm process works, or even 65 nm. For example the thinnest spin-on coating discussed is about 10x thicker than what I see discussed in research papers and you will not find any clue how that is achieved. As an introductory text it has the advantage of giving you an all-around view of how complicated the industry is. You will find discussions of everything from coating your shoes to coating high aspect contacts, from super pure chemicals to super-small self aligned processes. At the end of the book you probably know most of the processes in use. You will, however, probably not feel confident you have learned how the most modern chips are produced. This book requires a total overhaul if it is to remain relevant, now just tinkering.

This book is OK, but there are many typos and some wrong information in the book.

Almost through chapter 6. Great overview of the wafer fab process. Reads easily.

Excellent book

[Download to continue reading...](#)

Microchip Fabrication: A Practical Guide to Semiconductor Processing, Sixth Edition (Electronics)  
Microchip Fabrication, Sixth Edition: A Practical Guide to Semiconductor Processing (Electronics)  
Microchip Fabrication: A Practical Guide to Semiconductor Processing Microchip Fabrication, 5th Ed. Semiconductor Physics and Applications (Series on Semiconductor Science and Technology)  
Learn to Weld: Beginning MIG Welding and Metal Fabrication Basics - Includes techniques you can use for home and automotive repair, metal fabrication projects, sculpture, and more Handbook of Optics, Third Edition Volume II: Design, Fabrication and Testing, Sources and Detectors, Radiometry and Photometry (Electronics) 3D Printing and CNC Fabrication with SketchUp (Electronics) The Chip : How Two Americans Invented the Microchip and Launched a Revolution

Microchip Manufacturing Study Guide for Aircraft Electricity and Electronics, Sixth Edition (Aviation)  
Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition  
Semiconductor Laser Engineering, Reliability and Diagnostics: A Practical Approach to High Power  
and Single Mode Devices Programming the Propeller with Spin: A Beginner's Guide to Parallel  
Processing (Tab Electronics) The Bantam Medical Dictionary, Sixth Edition: Updated and Expanded  
Sixth Edition Discrete-Time Signal Processing (3rd Edition) (Prentice-Hall Signal Processing Series)  
Discrete-Time Signal Processing (2nd Edition) (Prentice-Hall Signal Processing Series) Aircraft  
Electricity and Electronics, Sixth Edition (Aviation) Teach Yourself Electricity and Electronics, Sixth  
Edition (Teach Yourself (McGraw-Hill)) Shocking! Where Does Electricity Come From? Electricity  
and Electronics for Kids - Children's Electricity & Electronics

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)