



# Microchip Fabrication, Sixth Edition: A Practical Guide to Semiconductor Processing

*Peter Van Zant*

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## **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

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