



# Fundamentals of Semiconductor Fabrication

*By Gary S. May, Simon M. Sze*

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**Fundamentals of Semiconductor Fabrication** By Gary S. May, Simon M. Sze

Offers a basic, up-to-date introduction to semiconductor fabrication technology, including both the theoretical and practical aspects of all major steps in the fabrication sequence

Presents comprehensive coverage of process sequences

Introduces readers to modern simulation tools

Addresses the practical aspects of integrated circuit fabrication

Clearly explains basic processing theory

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## **Editorial Review**

### **From the Back Cover**

This concise introduction to semiconductor fabrication technology covers everything professionals need to know, from crystal growth to integrated devices and circuits. Throughout, the authors address both theory and the practical aspects of each major fabrication step, including crystal growth, silicon oxidation, photolithography, etching, diffusion, ion implantation, and thin film deposition.

- The book integrates Computer Modeling & Simulation tools throughout.
- Process simulation is used as a tool for what-if analysis and discussion.
- Comprehensive coverage of process sequences helps readers connect individual steps into a cohesive whole.

### **About the Author**

Gary S. May, Ph.D. is Executive Assistant to the President and Motorola Foundation Professor of Microelectronics in the School of Electrical and Computer Engineering at the Georgia Institute of Technology. Dr. May was a national Science Foundation national Young Investigator, Georgia Tech's Outstanding Young Alumnus, received Georgia Tech's Outstanding Service Award, and was named a Giant of Science by the Quality Education for Minorities network in 2001. He was a member of the NSF Engineering Advisory Committee, served on and chaired the NSF Committee for Equal Opportunity in Science and Engineering, and was Editor-in-Chief for *IEEE Transactions of Semiconductor Manufacturing* from 1997 to 2001. Dr. May currently serves as chair of the National Advisory Board for the National Society of Black Engineers.

**Simon M. Sze, Ph.D.** is UMC Chair Professor of National Chiao Tung University, and President of the National Nano Device Laboratories. He has received the IEEE Ebers Award, the Sun Yet-sen Award, the National Science and Technology Award, and the National Chair Professor Award. He is a Life Fellow of IEEE, a member of the Academia Sinica, the Chinese Academy of Engineering, and the US National Academy of Engineering. He has authored or coauthored over 150 technical papers, and has written, edited, and contributed to 24 books. His book *Physics of Semiconductor Devices* (Wiley 1969, 2<sup>nd</sup> Ed, 1981) is the *most* cited work in contemporary engineering and applied science publications (over 12,000 citations from ISI Press).

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