

SHENG S. LI

# Semiconductor Physical Electronics

SECOND EDITION



Springer

# Semiconductor Physical Electronics 2nd Edition

**Ian Pickup**



## **Semiconductor Physical Electronics 2nd Edition:**

Semiconductor Physical Electronics Sheng S. Li, 2012-12-06 The purpose of this book is to provide the reader with a self contained treatment of fundamental solid state and semiconductor device physics The material presented in the text is based upon the lecture notes of a one year graduate course sequence taught by this author for many years in the Department of Electrical Engineering of the University of Florida It is intended as an introductory textbook for graduate students in electrical engineering However many students from other disciplines and backgrounds such as chemical engineering materials science and physics have also taken this course sequence and will be interested in the material presented herein This book may also serve as a general reference for device engineers in the semiconductor industry The present volume covers a wide variety of topics on basic solid state physics and physical principles of various semiconductor devices The main subjects covered include crystal structures lattice dynamics semiconductor statistics energy band theory excess carrier phenomena and recombination mechanisms carrier transport and scattering mechanisms optical properties photoelectric effects metal semiconductor devices the p n junction diode bipolar junction transistor MOS devices photonic devices quantum effect devices and high speed III V semiconductor devices The text presents a unified and balanced treatment of the physics of semiconductor materials and devices It is intended to provide physicists and materials scientists with more device backgrounds and device engineers with a broader knowledge of fundamental solid state physics

**Semiconductor Devices** Simon M. Sze, Ming-Kwei Lee, 2012-08-07 The awaited revision of *Semiconductor Devices Physics and Technology* offers more than 50% new or revised material that reflects a multitude of important discoveries and advances in device physics and integrated circuit processing Offering a basic introduction to physical principles of modern semiconductor devices and their advanced fabrication technology the third edition presents students with theoretical and practical aspects of every step in device characterizations and fabrication with an emphasis on integrated circuits Divided into three parts this text covers the basic properties of semiconductor materials emphasizing silicon and gallium arsenide the physics and characteristics of semiconductor devices bipolar unipolar special microwave and photonic devices and the latest processing technologies from crystal growth to lithographic pattern transfer

**Semiconductor Physical Electronics** S. Sheng, **Semiconductor Electronics** Paul Denzil Ankrum, 1971

**Microwave Semiconductor Devices, Circuits, and Applications** University of Michigan. Engineering Summer Conferences, 1974 *Microwave Semiconductor Devices and Circuits* University of Michigan. Engineering Summer

Conferences, 1971 **The New Encyclopædia Britannica: Macropædia : Knowledge in depth**, 2002 *Elementary*

*Nonlinear Electronics Circuits* George E. Anner, 1967 **The British National Bibliography** Arthur James Wells, 2001

**Subject Guide to Books in Print**, 1993 **Handbook of the Engineering Sciences: The applied sciences** James Harry Potter, 1967 Fundamental considerations of the principal engineering sciences on a level approximating that of the first

year graduate student in engineering Pref v 1 contains seven major sections e g chemistry physics graphics presented as background for the applied engineering sciences v 2 contains 18 major sections e g thermal phenomena turbomachinery dealing with the sciences themselves

**Fundamentals of Silicon Integrated Device Technology** Robert M. Burger, R. P. Donovan, 1968

**EEE**, 1965

**Fundamentals of Silicon Integrated Device Technology: Oxidation, diffusion, and epitaxy. v. 2. Bipolar and unipolar transistors** Robert M. Burger, R. P. Donovan, 1967

International Journal of Electrical Engineering Education, 1970

*Introduction to the Physics of Electronics* Myron F. Uman, 1974

**The Publishers' Trade List Annual**, 1979

Quantum 1/f Noise in Bipolar Junction Transistors Alister Chun-Fung Young, 1990

**American Book Publishing Record**, 1991

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