



# Semiconductor Device Technology

**Simon Min Sze**



## **Semiconductor Device Technology:**

**Physics and Technology of Semiconductor Devices** Andrew S. Grove, 1967-01-15 Provides a comprehensive treatment of semiconductor device physics and technology with emphasis on modern planar silicon devices Physical principles are explained by the use of simple physical models and illustrated by experimental measurements

*Semiconductor Devices* Simon M. Sze, Ming-Kwei Lee, 2012-05-15 *Semiconductor Devices Physics and Technology* Third Edition is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology It begins with a brief historical review of major devices and key technologies and is then divided into three sections semiconductor material properties physics of semiconductor devices and processing technology to fabricate these semiconductor devices

**Semiconductor Devices** S. M. Sze, 1985-05-14 This book is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology It begins with a brief historical review of major devices and key technologies and is then divided into three sections semiconductor material properties physics of semiconductor devices and processing technology to fabricate these semiconductor devices Publisher's description

*SEMICONDUCTOR DEVICES: PHYSICS AND TECHNOLOGY, 2ND ED* S.M.Sze, 2008-06 Market\_Desc Electrical Engineers Scientists Special Features Provides strong coverage of all key semiconductor devices Includes basic physics and material properties of key semiconductors Covers all important processing technologies About The Book This book is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology It begins with a brief historical review of major devices and key technologies and is then divided into three sections semiconductor material properties physics of semiconductor devices and processing technology to fabricate these semiconductor devices

**Semiconductor Device Technology** Malcolm E. Goodge, 1983 *Semiconductor Devices* Simon Min Sze, 2002

**Semiconductor Devices and Technology** Shahriar Khan, 2012-12-01 This is a textbook for undergraduate and graduate Electrical engineering students It starts with the Quantum theory continuing to intrinsic and doped semiconductors p n junctions and optoelectronics Bipolar transistors FETs and Integrated Circuit fabrication are covered While the material is easily understandable there is emphasis on depth of knowledge and appreciation of engineering principles **Selected**

**Solutions for Semiconductor Devices** S. M. Sze, 1985 **Discrete and Integrated Power Semiconductor Devices** Vítězslav Benda, Duncan A. Grant, John Gower, 1999-01-26 *Power Semiconductor Devices Theory and Applications* V t zslav Benda Czech Technical University Prague Czech Republic John Gower Duncan A Grant University of Bristol UK Recent advances in robotics automatic control and power conditioning systems have prompted research into increasingly sophisticated power semiconductor devices This cutting edge text explores the design physical processes and applications performance of current power semiconductor devices The extensive scope covers the complete range of discrete and integrated devices now available Features include Use of physical models to explain the device structures and functions

without complicated mathematical techniques Explanation of the structure function characteristics and features of the most important discrete and integrated power devices Demonstration of the influence of construction and technological parameters on important device characteristics Sections on power modules and conditions for reliable operation plus a look at future materials and devices This valuable reference encompassing the structure operation and application of power semiconductor devices will benefit both practising electronics engineers and students of power electronics *Physics and Technology of Semiconductor Devices* A. S. Grove, 2000

**Technology of Quantum Devices** Manijeh Razeghi, 2009-12-11 Technology of Quantum Devices offers a multi disciplinary overview of solid state physics photonics and semiconductor growth and fabrication Readers will find up to date coverage of compound semiconductors crystal growth techniques silicon and compound semiconductor device technology in addition to intersubband and semiconductor lasers Recent findings in quantum tunneling transport quantum well intersubband photodetectors QWIP and quantum dot photodetectors QWDIP are described along with a thorough set of sample problems

**Semiconductor Devices** Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications The text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance Issues such as how doping device dimensions and parasitic effects influence device operation are also included The book is appropriate for the following courses Device Physics Semiconductor Devices Device Electronics Physics of Semiconductor Devices Integrated Circuit Devices Device Electronics Solid State Devices

**An Introduction to Semiconductor Device Technology** Harry E. Talley, 1981

**International Diffusion of Technology** John E. Tilton, 1971 Study of the international diffusion of semiconductor technology comprising a comparison of the marketing of innovations in the electronics industry in France Germany Federal Republic Japan the UK and the USA includes references and statistical tables

**Handbook of Semiconductor Manufacturing Technology** Yoshio Nishi, Robert Doering, 2017-12-19 Retaining the comprehensive and in depth approach that cemented the bestselling first edition s place as a standard reference in the field the Handbook of Semiconductor Manufacturing Technology Second Edition features new and updated material that keeps it at the vanguard of today s most dynamic and rapidly growing field Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world s leading specialists in every area of semiconductor manufacturing to provide the most reliable authoritative and industry leading information available Stay Current with the Latest Technologies In addition to updates to nearly every existing chapter this edition features five entirely new contributions on Silicon on insulator SOI materials and devices Supercritical CO<sub>2</sub> in semiconductor cleaning Low dielectrics Atomic layer deposition Damascene

copper electroplating Effects of terrestrial radiation on integrated circuits ICs Reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication IC packaging and 300 mm wafer fabrication While no book can be up to the minute with the advances in the semiconductor field the Handbook of Semiconductor Manufacturing Technology keeps the most important data methods tools and techniques close at hand Theory of Modern Electronic Semiconductor Devices Brennan,2003-03-31 **Semiconductor Power Devices** Sorab Khushro Ghandhi,1977

**Introductory Semiconductor Device Physics** Greg Parker,1994 This book is aimed at undergraduates and pre undergraduates preparing to study the first year of an electronics or physics course It is also suitable for electronic engineers requiring revision *Physics of Semiconductor Devices* Simon M. Sze,Yiming Li,Kwok K. Ng,2021-03-03 The new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of *Physics of Semiconductor Devices* remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors *Physics of Semiconductor Devices* Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field Impact of Charge-transfer Device Technology on Computer Systems Robert B. J. Warnar,1977

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