

Semiconductor Device Physics and Design



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Physics And Technology Of Semiconductor Devices

S. M. Sze



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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

Physics and Technology of Semiconductor Devices Andrew S Grove, 1967 **Physics and Technology of Semiconductor Devices** A. S. Grove, 2000 **Semiconductor Devices** Simon Min Sze, 2002 **Semiconductor Devices** Simon Min Sze, 2002 **Selected Solutions for Semiconductor Devices** S. M. Sze, 1985 *Semiconductor devices* 3rd ed S.M. Sze, 2012 Wie Semiconductor Devices Simon M Sze, Sze, 2002-08-08 **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 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 *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

Low-dimensional Semiconductors M. J. Kelly,1995-11-23 This text is a first attempt to pull together the whole of semiconductor science and technology since 1970 in so far as semiconductor multilayers are concerned Material technology physics and device issues are described with approximately equal emphasis and form a single coherent point of view The subject matter is the concern of over half of today s active semiconductor scientists and technologists the remainder working on bulk semiconductors and devices It is now routine to design and the prepare semiconductor multilayers at a time with independent control over the dropping and composition in each layer In turn these multilayers can be patterned with features that as a small as a few atomic layers in lateral extent The resulting structures open up many new ares of exciting solid state and quantum physics They have also led to whole new generations of electronic and optoelectronic devices whose superior performance relates back to the multilayer structures The principles established in the field have several decades to go advancing towards the ultimate of materials engineering the design and preparation of solids atom by atom The book should appeal equally to physicists electronic engineers and materials scientists **Fundamentals of Solid-state**

Electronics Chih-Tang Sah, 1991 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data design formulae and latest devices such as the GeSi heterostructure bipolar transistors

Electronic Materials Handbook, 1989-11-01 Volume 1 Packaging is an authoritative reference source of practical information for the design or process engineer who must make informed day to day decisions about the materials and processes of microelectronic packaging Its 117 articles offer the collective knowledge wisdom and judgement of 407 microelectronics packaging experts authors co authors and reviewers representing 192 companies universities laboratories and other organizations This is the inaugural volume of ASMAs all new Electronic Materials Handbook series designed to be the Metals Handbook of electronics technology In over 65 years of publishing the Metals Handbook ASM has developed a unique editorial method of compiling large technical reference books ASMAs access to leading materials technology experts enables to organize these books on an industry consensus basis Behind every article Is an author who is a top expert in its specific subject area This multi author approach ensures the best most timely information throughout Individually selected panels of 5 and 6 peers review each article for technical accuracy generic point of view and completeness Volumes in the Electronic Materials Handbook series are multidisciplinary to reflect industry practice applied in integrating multiple technology disciplines necessary to any program in advanced electronics Volume 1 Packaging focusing on the middle level of the electronics technology size spectrum offers the greatest practical value to the largest and broadest group of users Future volumes in the series will address topics on larger integrated electronic assemblies and smaller semiconductor materials and devices size levels

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 Physical Electronics Sheng S. Li, 2007-01-16 Semiconductor Physical Electronics Second Edition provides comprehensive coverage of fundamental semiconductor physics that is essential to an understanding of the physical and operational principles of a wide variety of semiconductor electronic and optoelectronic devices. This text presents a unified and balanced treatment of the physics characterization and applications of semiconductor materials and devices for physicists and material scientists who need further exposure to semiconductor and photonic devices and for device engineers who need additional background on the underlying physical principles. This updated and revised second edition reflects advances in semiconductor technologies over the past decade including many new semiconductor devices that have emerged and entered into the marketplace. It is suitable for graduate students in electrical engineering, materials science, physics, and chemical engineering and as a general reference for processing and device engineers working in the semiconductor industry.

Semiconductor Devices, Physics and Technology S. M. Sze, 2013 **Semiconductor Power Devices** Josef Lutz, Heinrich Schlangenotto, Uwe Scheuermann, Rik De Doncker, 2018-02-16 Halbleiter Leistungsbaulemente sind das Kernstück der Leistungselektronik. Sie bestimmen die Leistungsfähigkeit und machen neuartige und verlustarme Schaltungen erst möglich. In dem Band wird neben den Halbleiter Leistungsbaulementen selbst auch die Aufbau- und Verbindungstechnik behandelt, von den physikalischen Grundlagen und der Herstellungstechnologie über einzelne Bauelemente bis zu thermomechanischen Problemen, Zerstörungsmechanismen und Störungseffekten. Die 2. bearbeitete Auflage berücksichtigt technische Neuerungen und Entwicklungen.

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