

SEMICONDUCTOR DEVICES

Physics
and
Technology



2nd Edition

S.M. Sze

Semiconductor Devices Physics Technology 2nd Edition

Simon M Sze, 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

Selected Solutions for Semiconductor Devices S. M. Sze,1985 *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 *Wie Semiconductor Devices* Simon M Sze,Sze,2002-08-08

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 devices 3rd physics and technology**

3rd ed S.M. Sze,2012 **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 Introductory Semiconductor Device Physics Greg Parker,2004-09-30 Introduction to Semiconductor Device Physics is a popular and established text that offers a thorough introduction to the underlying physics of semiconductor devices It begins with a review of basic solid state physics then goes on to describe the properties of semiconductors including energy bands the concept of effective mass carrier concentr Semiconductor Devices Simon Min Sze,2002 **Fundamentals of Photonics** Bahaa E. A. Saleh,Malvin Carl Teich,2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics

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Device Physics of Narrow Gap Semiconductors Junhao Chu, Arden Sher, 2009-10-13 Narrow gap semiconductors obey the general rules of semiconductor science but often exhibit extreme features of these rules because of the same properties that produce their narrow gaps Consequently these materials provide sensitive tests of theory and the opportunity for the design of innovative devices Narrow gap semiconductors are the most important materials for the preparation of advanced modern infrared systems Device Physics of Narrow Gap Semiconductors a forthcoming second book offers descriptions of the materials science and device physics of these unique materials Topics covered include impurities and defects recombination mechanisms surface and interface properties and the properties of low dimensional systems for infrared applications This book will help readers to understand not only semiconductor physics and materials science but also how they relate to advanced opto electronic devices The final chapter describes the device physics of photoconductive detectors photovoltaic infrared detectors super lattices and quantum wells infrared lasers and single photon infrared detectors

Operation and Modeling of the MOS Transistor Yannis Tsividis, Colin McAndrew, 2011 The MOS Metal Oxide Semiconductor transistor is the most important building block of modern silicon integrated circuits This book fills an important gap in the literature by presenting a unified treatment of the operation and modeling of the MOS transistor that is complemented with extensive intuitive discussions The MOS transistor is the dominant VLSI Very Large Scale Integration device and understanding of this device is mandatory for those people planning a career in device physics and modeling as well as in circuit design Especially important for university courses there is a logical systematic and progressive description that starts with semiconductor fundamentals and builds up to a comprehensive understanding of the basics of MOS transistors For practicing professionals there are details of nuances observed in MOS transistor behavior and various approaches to modeling these are presented Detailed derivations are given for modeling dc currents charges for large signal operation small signal operation at low frequencies and high frequencies and noise

Elementary Semiconductor Device Physics Kazuya Masu, Shuhei Amakawa, 2024-10-31 This book by two leading experts on integrated circuit design adopts an untraditional approach to introducing semiconductor devices to beginners The authors use circuit theory to provide a

digestible explanation of energy band theory and understanding of energy band diagrams After briefly summarizing the basics of semiconductors the authors describe semiconductor devices from a circuit theoretic point of view making the book especially suitable for circuit design students and engineers Further to the emphasis on the circuit perspective the book then uses circuit theory to introduce readers to the famously indigestible energy bands of crystalline solids Additionally the book explains how to read physics from energy band diagrams of semiconductor devices in great detail The key to appreciating the real power of energy band diagrams is shown to lie in the understanding of the concept of the quasi Fermi levels introduced in 1949 by William Shockley but remaining elusive to date and therefore often omitted from energy band diagrams To rectify this some of the energy band diagrams presented in this book complete with quasi Fermi levels were drawn using a device simulator a k a technology computer aided design TCAD offering quantitative information about device physics The book could therefore also serve as a hands on course text in TCAD drawn band diagram reading Because no prior exposure to quantum mechanics is required and the book does not attempt to teach it this book is ideal for students in various disciplines who may or may not be specializing in semiconductor devices The numerous practical examples of reading TCAD based energy band diagrams are also invaluable to practicing semiconductor device engineers *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 **Device Electronics for**

Integrated Circuits Richard S. Muller, Theodore I. Kamins, 2002-10-28 Focusing specifically on silicon devices the Third Edition of Device Electronics for Integrated Circuits takes students in integrated circuits courses from fundamental physics to detailed device operation Because the book focuses primarily on silicon devices each topic can include more depth and extensive worked examples and practice problems ensure that students understand the details Basic Properties of III-V Devices - Understanding Mysterious Trapping Phenomena Kompa, Günter, 2014 Trapping effects in III V devices pose a great challenge to any microwave device modeler Understanding their physical origins is of prime importance to create physics related reliable device models The treatment of trapping phenomena is commonly beyond the classical higher education level of communication engineers This book provides any basic material needed to understand trapping effects occurring primarily

in GaAs and GaN power HEMT devices As the text material covers interdisciplinary topics such as crystal defects and localized charges trap centers and trap dynamics deep level transient spectroscopy and trap centers in passivation layers the book will be of interest to graduate students of electrical engineering communication engineering and physics as well as materials device and circuit engineers in research and industry *Electronics* Nassir H. Sabah,2017-12-19 Electronics Basic Analog and Digital with PSpice does more than just make unsubstantiated assertions about electronics Compared to most current textbooks on the subject it pays significantly more attention to essential basic electronics and the underlying theory of semiconductors In discussing electrical conduction in semiconductors the author addresses the important but often ignored fundamental and unifying concept of electrochemical potential of current carriers which is also an instructive link between semiconductor and ionic systems at a time when electrical engineering students are increasingly being exposed to biological systems The text presents the background and tools necessary for at least a qualitative understanding of new and projected advances in microelectronics The author provides helpful PSpice simulations and associated procedures based on schematic capture and using OrCAD 16 0 Demo software which are available for download These simulations are explained in considerable detail and integrated throughout the book The book also includes practical real world examples problems and other supplementary material which helps to demystify concepts and relations that many books usually state as facts without offering at least some plausible explanation With its focus on fundamental physical concepts and thorough exploration of the behavior of semiconductors this book enables readers to better understand how electronic devices function and how they are used The book s foreword briefly reviews the history of electronics and its impact in today s world Classroom Presentations are provided on the CRC Press website Their inclusion eliminates the need for instructors to prepare lecture notes The files can be modified as may be desired projected in the classroom or lecture hall and used as a basis for discussing the course material

Power Microelectronics: Device And Process Technologies (Second Edition) Yung Chii Liang,Ganesh S Samudra,Chih-fang Huang,2017-03-14 This is an excellent reference book for graduates or undergraduates studying semiconductor technology or for working professionals who need a reference for detailed theory and working knowledge of processes in the field of power semiconductor devices IEEE Electrical Insulation MagazineThis descriptive textbook provides a clear look at the theories and process technologies necessary for understanding the modern power semiconductor devices i e from the fundamentals of p n junction electrostatics unipolar MOSFET and superjunction structures bipolar IGBT to the most recent wide bandgap SiC and GaN devices It also covers their associated semiconductor process technologies Real examples based on actual fabricated devices with the process steps described in clear detail are especially useful This book is suitable for university courses on power semiconductor or power electronic devices Device designers and researchers will also find this book a good reference in their work especially for those focusing on the advanced device development and design aspects

Silicon Quantum Integrated Circuits E. Kasper,D.J. Paul,2005-12-11 Quantum size effects are

becoming increasingly important in microelectronics as the dimensions of the structures shrink laterally towards 100 nm and vertically towards 10 nm. Advanced device concepts will exploit these effects for integrated circuits with novel or improved properties. Keeping in mind the trend towards systems on chip, this book deals with silicon based quantum devices and focuses on room temperature operation. The basic physical principles, materials, technological aspects and fundamental device operation are discussed in an interdisciplinary manner. It is shown that silicon germanium SiGe heterostructure devices will play a key role in realizing silicon based quantum electronics.

Physics of Semiconductor Devices Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-03-19

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 instructors 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.

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