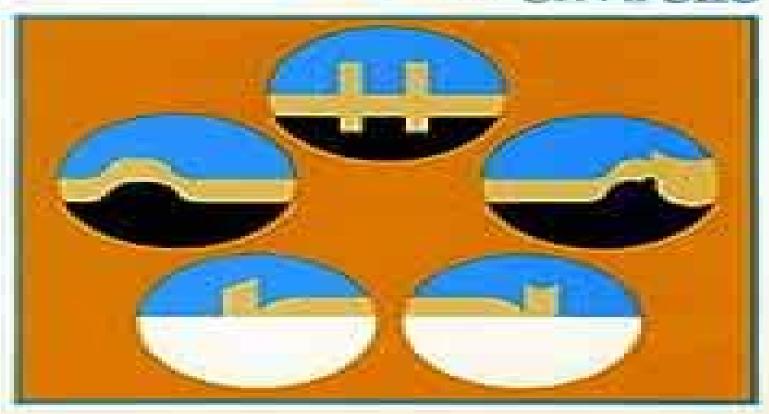
# High-Speed Semiconductor Devices

Month S.M. Sze



# **High Speed Semiconductor Devices By S M Sze**

**Wai-Kai Chen** 

#### **High Speed Semiconductor Devices By S M Sze:**

**High-Speed Semiconductor Devices** S. M. Sze,1990-08-15 Introduces the physical principles and operational characteristics of high speed semiconductor devices Intended for use by advanced students as well as professional engineers and scientists involved in semiconductor device research it includes the most advanced and important topics in high speed semiconductor devices Initial chapters cover material properties advanced technologies and novel device building blocks and serve as the basis for understanding and analyzing devices in subsequent chapters. The following chapters cover a group of closely related devices that includes MOSFETs MESFETs heterojunction FETs and permeable base transistors hot electron transistors microwave diodes and photonic devices among others Each chapter is self contained and features a summary section a discussion of future device trend and an instructional problem set Modern Semiconductor Device Physics S. M. Sze,1998 An in depth up to date presentation of the physics and operational principles of all modern semiconductor devices The companion volume to Dr Sze s classic Physics of Semiconductor Devices Modern Semiconductor Device Physics covers all the significant advances in the field over the past decade To provide the most authoritative state of the art information on this rapidly developing technology Dr Sze has gathered the contributions of world renowned experts in each area Principal topics include bipolar transistors compound semiconductor field effect transistors MOSFET and related devices power devices quantum effect and hot electron devices active microwave diodes high speed photonic devices and solar cells Supported by hundreds of illustrations and references and a problem set at the end of each chapter Modern Semiconductor Device Physics is the essential text reference for electrical engineers physicists material scientists and graduate students actively working in microelectronics and related fields High-speed Semiconductor Devices S.M. Sze, Handbook Wai-Kai Chen, 2019-07-17 Over the years the fundamentals of VLSI technology have evolved to include a wide range of topics and a broad range of practices To encompass such a vast amount of knowledge The VLSI Handbook focuses on the key concepts models and equations that enable the electrical engineer to analyze design and predict the behavior of very large scale integrated circuits It provides the most up to date information on IC technology you can find Using frequent examples the Handbook stresses the fundamental theory behind professional applications Focusing not only on the traditional design methods it contains all relevant sources of information and tools to assist you in performing your job This includes software databases standards seminars conferences and more The VLSI Handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the knowledge of experienced engineers and educate the novice This one source reference keeps you current on new techniques and procedures and serves as a review for standard practice It will be your first choice when looking for a solution 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 Analog Circuits and Devices Wai-Kai Chen, 2003-03-26 The Principles and Application in Engineering Series is a new series of convenient economical references sharply focused on particular engineering topics and subspecialties Each volume in this series comprises chapters carefully selected from CRC s bestselling handbooks logically organized for optimum convenience and thoughtfully priced to fit *Introduction to Semiconductor Devices* Kevin F. Brennan, 2005-02-03 From semiconductor fundamentals to semiconductor devices used in the telecommunications and computing industries this 2005 book provides a solid grounding in the most important devices used in the hottest areas of electronic engineering The book includes coverage of future approaches to computing hardware and RF power amplifiers and explains how emerging trends and system demands of computing and telecommunications systems influence the choice design and operation of semiconductors Next the field effect devices are described including MODFETs and MOSFETs Short channel effects and the challenges faced by continuing miniaturisation are then addressed The rest of the book discusses the structure behaviour and operating requirements of semiconductor devices used in lightwave and wireless telecommunications systems This is both an excellent senior graduate text and a valuable reference for engineers and researchers in the field The Electrical Engineering Handbook, Second Edition Richard C. Dorf, 1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this handbook provides a complete reference to answer the guestions encountered by practicing engineers in industry government or academia This well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering A compendium of physical chemical material and mathematical data completes this comprehensive resource Every major topic is thoroughly covered and every important concept is defined described and illustrated Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer researchers and students A distinguished advisory board and contributors including many of the leading authors professors and researchers in the field today assist noted author and professor Richard Dorf in offering

complete coverage of this rapidly expanding field No other single volume available today offers this combination of broad coverage and depth of exploration of the topics The Electrical Engineering Handbook will be an invaluable resource for **Semiconductor Physical Electronics** Sheng S. Li,2012-12-06 The purpose of this electrical engineers for years to come book is to provide the reader with a self contained treatment of fundamen tal 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 mat erials scientists with more device backgrounds and device engineers with a broader knowledge of Computational Electronics Dragica Vasileska, Stephen M. Goodnick, Gerhard fundamental solid state physics Klimeck, 2017-12-19 Starting with the simplest semiclassical approaches and ending with the description of complex fully quantum mechanical methods for quantum transport analysis of state of the art devices Computational Electronics Semiclassical and Quantum Device Modeling and Simulation provides a comprehensive overview of the essential techniques and methods for effectively analyzing transport in semiconductor devices With the transistor reaching its limits and new device designs and paradigms of operation being explored this timely resource delivers the simulation methods needed to properly model state of the art nanoscale devices The first part examines semiclassical transport methods including drift diffusion hydrodynamic and Monte Carlo methods for solving the Boltzmann transport equation Details regarding numerical implementation and sample codes are provided as templates for sophisticated simulation software. The second part introduces the density gradient method quantum hydrodynamics and the concept of effective potentials used to account for quantum mechanical space quantization effects in particle based simulators Highlighting the need for quantum transport approaches it describes various quantum effects that appear in current and future devices being mass produced or fabricated as a proof of concept In this context it introduces the concept of effective potential used to approximately include quantum mechanical space quantization effects within the semiclassical particle based device simulation scheme Addressing the

practical aspects of computational electronics this authoritative resource concludes by addressing some of the open questions related to quantum transport not covered in most books Complete with self study problems and numerous examples throughout this book supplies readers with the practical understanding required to create their own simulators

The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and biomedical systems and devices including all of the basic information required to thoroughly understand each area It explores the emerging fields of sensors nanotechnologies and biological effects Broadcasting and Optical Communication Technology explores communications information theory and devices covering all of the basic information needed for a thorough understanding of these areas It also examines the emerging areas of adaptive estimation and optical communication Computers Software Engineering and Digital Devices examines digital and logical devices displays testing software and computers presenting the fundamental concepts needed to ensure a thorough understanding of each field It treats the emerging fields of programmable logic hardware description languages and parallel computing in detail Systems Controls Embedded Systems Energy and Machines explores in detail the fields of energy devices machines and systems as well as control systems It provides all of the fundamental concepts needed for thorough in depth understanding of each area and devotes special attention to the emerging area of embedded systems Encompassing the work of the world's foremost experts in their respective specialties The Electrical Engineering Handbook Third Edition remains the most convenient reliable source of information available This edition features the latest developments the broadest scope of coverage and new material on nanotechnologies fuel cells embedded systems and biometrics The engineering community has relied on the Handbook for more than twelve years and it

will continue to be a platform to launch the next wave of advancements The Handbook's latest incarnation features a protective slipcase which helps you stay organized without overwhelming your bookshelf It is an attractive addition to any collection and will help keep each volume of the Handbook as fresh as your latest research **Compound Semiconductors** Strained Layers and Devices Suresh Jain, Magnus Willander, R. Van Overstraeten, 2013-11-27 In recent years extensive work has been done on strain dislocations and mechanical properties of strained layers Although it is not possible to describe all this work in a monograph of this size Compound Semiconductors Strained Layers and Devices provides an overview with sufficient detail to cover all the essential aspects of recent developments in the field The book concentrates on compound semiconductors with emphasis on wideband gap II VI and III Nitride semiconductors GeSi strained layers are discussed for comparison to clarify the underlying physics The effects of strain on band structure transport and optical properties of both the zinc blende and the wurtzite compound semiconductors are discussed as are Piezoelectric Effects and Quantum Confined Stark Effects Magnetic polarons in diluted II VI magnetic polarons are also covered Among the applications blue and green LEDs and LDs and mid IR LDs are included A whole chapter is devoted to these devices Another chapter examines transistors based on conventional III V II VI and III nitride semiconductors The subject matter is treated at a level appropriate for students and senior researchers interested in material science and in designing and modeling semiconductor devices It will also be useful to engineers and material scientists concerned with the effects of strain on the mechanical properties of crystalline layers of any material Digital Design and Fabrication Vojin G. Oklobdzija, 2017-12-19 In response to tremendous growth and new technologies in the semiconductor industry this volume is organized into five information rich sections Digital Design and Fabrication surveys the latest advances in computer architecture and design as well as the technologies used to manufacture and test them Featuring contributions from leading experts the book also includes a new section on memory and storage in addition to a new chapter on nonvolatile memory technologies Developing advanced concepts this sharply focused book Describes new technologies that have become driving factors for the electronic industry Includes new information on semiconductor memory circuits whose development best illustrates the phenomenal progress encountered by the fabrication and technology sector Contains a section dedicated to issues related to system power consumption Describes reliability and testability of computer systems Pinpoints trends and state of the art advances in fabrication and CMOS technologies Describes performance evaluation measures which are the bottom line from the user s point of view Discusses design techniques used to create modern computer systems including high speed computer arithmetic and high frequency design timing and clocking and PLL and DLL design Encyclopedia of Chemical Physics and Physical Chemistry: Applications Nicholas D. Spencer, John H. Moore, 2001 **Vertical-Cavity Surface-Emitting Lasers** Carl W. Wilmsen, Henryk Temkin, Larry A. Coldren, 2001-11-12 One of the key advances in photonic technology in recent years is the development of vertical cavity surface emitting lasers or VCSELs These devices have a huge range of potential

applications in areas such as communications printing and optical switching This book first published in 1999 provides a clear insight into the physics of VCSELs as well as describing details of their fabrication and applications All of the book s contributors are at the forefront of VCSEL research and development Together they provide complete and coherent coverage of the current state of the art The opening chapters cover VCSEL design emission from microcavities growth fabrication and characterization These are followed by chapters on long and short wavelength VCSELs optical data links and free space optical processing The book will be of great interest to graduate students and researchers in electrical engineering applied physics and materials science It will also be an excellent reference volume for practising engineers in the photonics industry

Introduction to Nanoelectronics Vladimir V. Mitin, Viatcheslav A. Kochelap, Michael A. Stroscio, 2008 A comprehensive textbook on nanoelectronics covering the underlying physics nanostructures nanomaterials and nanodevices Semiconductor Heterostructures Mitra Dutta, Michael A. Stroscio, 2003 This volume provides valuable summaries on many aspects of advanced semiconductor heterostructures and highlights the great variety of semiconductor heterostructures that has emerged since their original conception As exemplified by the chapters in this book recent progress on advanced semiconductor heterostructures spans a truly remarkable range of scientific fields with an associated diversity of applications Some of these applications will undoubtedly revolutionize critically important facets of modern technology At the heart of these advances is the ability to design and control the properties of semiconductor devices on the nanoscale As an example the intersubband lasers discussed in this book have a broad range of previously unobtainable characteristics and associated applications as a result of the nanoscale dimensional control of the underlying semi conductor heterostructures As this book illustrates an astounding variety of heterostructures can be fabricated with current technology the potentially widespread use of layered quantum dots fabricated with nanoscale precision in biological applications opens up exciting advances in medicine In addition many more excellent examples of the remarkable impact being made through the use of semi conductor heterostructures are given The summaries in this volume provide timely insights into what we know now about selected areas of advanced semiconductor heterostructures and also provide foundations for further developments Contents Novel Heterostructure Devices Electron Phonon Wave Interactions in Inter subband Laser Heterostructures M Kisin et al Quantum Dot Infrared Detectors and Sources P Bhattacharya et al Generation of Terahertz Emission Based on Intersubband Transitions Q Hu Midinfrared GaSb Based Lasers with Type I Heterointerfaces D V Donetsky et al Advances in Quantum Dot Research and Technology The Path to Applications Hot Carriers in Semiconductor Nanostructures Jagdeep Shah, 2012-12-02 Nonequilibrium hot charge carriers play a crucial role in the physics and technology of semiconductor nanostructure devices This book one of the first on the topic discusses fundamental aspects of hot carriers in quasi two dimensional systems and the impact of these carriers on semiconductor devices The work will provide scientists and device engineers with an authoritative review of the most exciting recent developments in this rapidly moving field It should be read

by all those who wish to learn the fundamentals of contemporary ultra small ultra fast semiconductor devices Topics covered include Reduced dimensionality and quantum wells Carrier phonon interactions and hot phonons Femtosecond optical studies of hot carrier Ballistic transport Submicron and resonant tunneling devices Proceedings of the International Conference on Computers and Devices for Communication ,1998 Fundamentals of Power Semiconductor Devices B. Jayant Baliga,2010-04-02 Fundamentals of Power Semiconductor Devices provides an in depth treatment of the physics of operation of power semiconductor devices that are commonly used by the power electronics industry Analytical models for explaining the operation of all power semiconductor devices are shown The treatment here focuses on silicon devices but includes the unique attributes and design requirements for emerging silicon carbide devices The book will appeal to practicing engineers in the power semiconductor device community

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