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Semiconductor Device Fundamentals

*with Computer-Based Exercises
and Homework Problems*



Robert F. Pierret

Semiconductor Device Fundamentals

Robert F. Pierret



Semiconductor Device Fundamentals:

Semiconductor Device Fundamentals Robert F. Pierret, 1996-01 **Semiconductor Device Fundamentals** Betty Lise Anderson, Richard L. Anderson, 2003-12-01 Semiconductor Device Fundamentals, 2005 **Solutions Manual** Robert F. Pierret, 1996 *Semiconductor Fundamentals* Robert F. Pierret, 1983 *Advanced Semiconductor Fundamentals* Robert F. Pierret, 2003

Advanced Semiconductor Fundamentals Second Edition by Robert F. Pierret is an advanced level presentation of the underlying functional formalism routinely used in describing the operational behavior of solid state devices. The second edition provides an update of the topic presentation, semiconductor parametric information, and relevant references throughout the volume. There is also a 50% increase in the end of chapter problems. Given the success of the first edition, the second edition retains the same overall material coverage and a pedagogical approach in introducing necessary concepts, models, and formalism.

Semiconductor Device Physics and Simulation J.S. Yuan, Juin-Jei Liou, 2013-11-22

The advent of the microelectronics technology has made ever increasing numbers of small devices on a same chip. The rapid emergence of ultra large scaled integrated ULSI technology has moved device dimension into the sub quarter micron regime and put more than 10 million transistors on a single chip. While traditional closed form analytical models furnish useful intuition into how semiconductor devices behave, they no longer provide consistently accurate results for all modes of operation of these very small devices. The reason is that in such devices various physical mechanisms affect the device performance in a complex manner and the conventional assumptions, i.e., one dimensional treatment, low level injection, quasi static approximation, etc., employed in developing analytical models become questionable. Thus the use of numerical device simulation becomes important in device modeling. Researchers and engineers will rely even more on device simulation for device design and analysis in the future. This book provides comprehensive coverage of device simulation and analysis for various modern semiconductor devices. It will serve as a reference for researchers, engineers, and students who require in depth, up to date information and understanding of semiconductor device physics and characteristics. The materials of the book are limited to conventional and mainstream semiconductor devices; photonic devices such as light emitting and laser diodes are not included, nor does the book cover device modeling, device fabrication, and circuit applications.

An Introduction to Semiconductor Devices Donald A. Neamen, 2006

An Introduction to Semiconductor Devices by Donald Neamen is designed to provide a fundamental understanding of the characteristics, operations, and limitations of semiconductor devices. In order to meet this goal, the book brings together explanations of fundamental physics of semiconductor materials and semiconductor device physics. This new text provides an accessible and modern approach to the material. Aimed at the undergraduate, Neamen keeps coverage of quantum mechanics to a minimum and labels the most advanced material as optional. MOS transistors are covered before bipolar transistors to reflect the dominance of MOS coverage in today's world.

BOOK JACKET *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

Fundamentals Of Semiconductor Physics And Devices Rolf

Enderlein, 1997-02-27 This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices It is particularly well suited for those who want to do both Intended as a teaching vehicle the book is written in an expository manner aimed at conveying a deep and coherent understanding of the field It provides clear and complete derivations of the basic concepts of modern semiconductor physics The mathematical arguments and physical interpretations are well balanced they are presented in a measure designed to ensure the integrity of the delivery of the subject matter in a fully comprehensible form Experimental procedures and measured data are included as well The reader is generally not expected to have background in quantum mechanics and solid state physics beyond the most elementary level Nonetheless the presentation of this book is planned to bring the student to the point of research design capability as a scientist or engineer Moreover it is sufficiently well endowed with detailed knowledge of the field including recent developments bearing on submicron semiconductor structures that the book also constitutes a valuable reference resource In Chapter 1 basic features of the atomic structures chemical nature and the macroscopic properties of semiconductors are discussed The band structure of ideal semiconductor crystals is treated in Chapter 2 together with the underlying one electron picture and other fundamental concepts Chapter 2 also provides the requisite background of the tight binding method and the $k \cdot p$ method which are later used extensively The electron states of shallow and deep centers clean semiconductor surfaces quantum wells and superlattices as well as the effects of external electric and magnetic fields are treated in Chapter 3 The one or multi band effective mass theory is used wherever this method is applicable A summary of group theory for application in semiconductor physics is given in an Appendix Chapter 4 deals with the statistical distribution of charge carriers over the band and localized states in thermodynamic equilibrium Non equilibrium processes in semiconductors are treated in Chapter 5 The physics of semiconductor junctions pn hetero metal and insulator is developed in Chapter 6 under conditions of thermodynamic equilibrium and in Chapter 7 under non equilibrium conditions On this basis the most important electronic and opto electronic semiconductor devices are treated among them uni and bi polar transistors

photodetectors solar cells and injection lasers A summary of group theory for applications in semiconductors is given in an Appendix

Fundamentals of Power Semiconductor Devices B. Jayant Baliga, 2018-09-28 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

Fundamentals of Semiconductor Devices Betty L. Anderson, 2017 Studyguide for Semiconductor Device Fundamentals by Pierret, Isbn 9780201543933 Cram101 Textbook Reviews, Pierret, 2012-01 Never HIGHLIGHT a Book Again Virtually all of the testable terms concepts persons places and events from the textbook are included Cram101 Just the FACTS101 studyguides give all of the outlines highlights notes and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanys 9780201543933 9780201554243

Semiconductor Device Fundamentals, 2006 Computers, Software Engineering, and Digital Devices Richard C. Dorf, 2018-10-03 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 expanded into a set of six books carefully focused on a specialized area or field of study Each book represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access 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 Each article includes defining terms references and sources of further information Encompassing the work of the world's foremost experts in their respective specialties Computers Software Engineering and Digital Devices features the latest developments the broadest scope of coverage and new material on secure electronic commerce and parallel computing

Fundamentals of Semiconductor Devices Betty Lise Anderson, Richard L. Anderson, 2018 Provides a realistic and practical treatment of modern semiconductor devices In this book an understanding of the physical processes responsible for the electronic properties of semiconductor materials and devices is emphasized It helps the reader appreciate the underlying physics behind the equations derived and their range of applicability Advanced Semiconductor Fundamentals Pierret, 2002-12 Introduction to Semiconductor Physics and Devices Mykhaylo Evstigneev, 2022-09-29 This classroom tested textbook provides a self contained one semester course in semiconductor physics and devices that is ideal preparation for students to enter burgeoning quantum industries Unlike other textbooks on semiconductor device physics it provides a brief but comprehensive introduction to quantum physics and statistical physics with derivations and explanations of the key

facts that are suitable for second year undergraduates rather than simply postulating the main results. The book is structured into three parts each of which can be covered in around ten lectures. The first part covers fundamental background material such as quantum and statistical physics and elements of crystallography and band theory of solids. Since this provides a vital foundation for the rest of the text, concepts are explained and derived in more detail than in comparable texts. For example, the concepts of measurement and collapse of the wave function, which are typically omitted, are presented in this text in language accessible to second year students. The second part covers semiconductors in and out of equilibrium and gives details which are not commonly presented, such as a derivation of the density of states using dimensional analysis and calculation of the concentration of ionized impurities from the grand canonical distribution. Special attention is paid to the solution of Poisson's equation, a topic that is feared by many undergraduates but is brought back down to earth by techniques and analogies from first year physics. Finally, in the third part, the material in parts 2 and 3 is applied to describe simple semiconductor devices, including the MOSFET, the Schottky and PN junction diodes, and optoelectronic devices. With a wide range of exercises, this textbook is readily adoptable for an undergraduate course on semiconductor physics devices, and with its emphasis on consolidating and applying knowledge of fundamental physics, it will leave students in engineering and the physical sciences well prepared for a future where quantum industries proliferate.

Field Effect Transistors, A Comprehensive Overview Pouya Valizadeh, 2016-02-01. This book discusses modern day Metal Oxide Semiconductor Field Effect Transistors (MOSFETs) and future trends of transistor devices. This book provides an overview of Field Effect Transistors (FETs) by discussing the basic principles of FETs and exploring the latest technological developments in the field. It covers and connects a wide spectrum of topics related to semiconductor device physics: physics of transistors and advanced transistor concepts. This book contains six chapters. Chapter 1 discusses electronic materials and charge. Chapter 2 examines junctions, discusses contacts under thermal equilibrium, metal semiconductor contacts, and metal insulator semiconductor systems. Chapter 3 covers traditional planar Metal Oxide Semiconductor Field Effect Transistors (MOSFETs). Chapter 4 describes scaling, driving technological variations, and novel dimensions of MOSFETs. Chapter 5 analyzes Heterojunction Field Effect Transistors (FETs) and also discusses the challenges and rewards of heteroepitaxy. Finally, Chapter 6 examines FETs at molecular scales. Links the discussion of contemporary transistor devices to physical processes. Material has been class tested in undergraduate and graduate courses on the design of integrated circuit components taught by the author. Contains examples and end of chapter problems.

Field Effect Transistors: A Comprehensive Overview From Basic Concepts to Novel Technologies is a reference for senior undergraduate, graduate students, and professional engineers needing insight into physics of operation of modern FETs. Pouya Valizadeh is Associate Professor in the Department of Electrical and Computer Engineering at Concordia University in Quebec, Canada. He received B.S. and M.S. degrees with honors from the University of Tehran and Ph.D. degree from The University of Michigan, Ann Arbor, all in Electrical Engineering in 1997, 1999, and 2005.

respectively Over the past decade Dr Valizadeh has taught numerous sections of five different courses covering topics such as semiconductor process technology semiconductor materials and their properties advanced solid state devices transistor design for modern CMOS technology and high speed transistors Semiconductor Fundamentals ,2023

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Table of Contents Semiconductor Device Fundamentals

1. Understanding the eBook Semiconductor Device Fundamentals
 - The Rise of Digital Reading Semiconductor Device Fundamentals
 - Advantages of eBooks Over Traditional Books
2. Identifying Semiconductor Device Fundamentals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semiconductor Device Fundamentals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Semiconductor Device Fundamentals
 - Personalized Recommendations
 - Semiconductor Device Fundamentals User Reviews and Ratings

- Semiconductor Device Fundamentals and Bestseller Lists
- 5. Accessing Semiconductor Device Fundamentals Free and Paid eBooks
 - Semiconductor Device Fundamentals Public Domain eBooks
 - Semiconductor Device Fundamentals eBook Subscription Services
 - Semiconductor Device Fundamentals Budget-Friendly Options
- 6. Navigating Semiconductor Device Fundamentals eBook Formats
 - ePub, PDF, MOBI, and More
 - Semiconductor Device Fundamentals Compatibility with Devices
 - Semiconductor Device Fundamentals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semiconductor Device Fundamentals
 - Highlighting and Note-Taking Semiconductor Device Fundamentals
 - Interactive Elements Semiconductor Device Fundamentals
- 8. Staying Engaged with Semiconductor Device Fundamentals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semiconductor Device Fundamentals
- 9. Balancing eBooks and Physical Books Semiconductor Device Fundamentals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semiconductor Device Fundamentals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Semiconductor Device Fundamentals
 - Setting Reading Goals Semiconductor Device Fundamentals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Semiconductor Device Fundamentals
 - Fact-Checking eBook Content of Semiconductor Device Fundamentals
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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