
Field-Effect and Bipolar Power Transistor Physics

Adolph Blicher

Field Effect And Bipolar Power Transistor Physics

B. Jayant Baliga



Field Effect And Bipolar Power Transistor Physics:

Field-Effect and Bipolar Power Transistor Physics Adolph Blicher, 2012-12-02 Field Effect and Bipolar Power Transistor Physics introduces the physics of operation of power transistors. It deals with bipolar devices as well as field effect power transistors. The book provides an up to date account of the progress made in power transistor design. This volume consists of three parts. Part I examines general considerations and reviews semiconductor surface theory as a background to understanding surface phenomena. It also discusses the effect of high carrier concentration on the semiconductor properties. Part II deals with bipolar transistors and the basic structures of power transistors. Part III discusses junction field effect and surface field effect transistors. This book is written for electrical engineers who design power transistor circuits, device physicists and designers and university students. The reader should have some familiarity with small signal transistor physics as the presentation is at the senior undergraduate or first year graduate level. *Power Electronics Semiconductor Switches* E. Ramshaw, 2013-06-29 Power Electronic Semiconductor Switches is the successor to Professor Ramshaw's widely used Power Electronics. The text has been completely re-written and expanded to focus on semiconductor switches and to take into account advances in the field since the publication of Power Electronics and changes in electrical and electronic engineering syllabuses. 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. **The Physics of Semiconductors** Marius Grundmann, 2021-03-06 The 4th edition of this highly successful textbook features copious material for a complete upper level undergraduate or graduate course guiding readers to the point where they can choose a specialized topic and begin supervised research. The textbook provides an integrated approach beginning from the essential principles of solid state and semiconductor physics to their use in various classic and modern semiconductor devices for applications in electronics and photonics. The text highlights many practical aspects of semiconductors, alloys, strain heterostructures, nanostructures, amorphous semiconductors and noise which are essential aspects of modern semiconductor research but often omitted in other textbooks. This textbook also covers advanced topics such as Bragg mirrors, resonators, polarized and magnetic semiconductors, nanowires, quantum dots, multi junction solar cells, thin film transistors and transparent conductive oxides. The 4th edition includes many updates and chapters on 2D materials and aspects of topology. The text derives explicit formulas for many results to facilitate a better understanding of the topics. Having evolved from a highly regarded two semester course on the topic, The Physics of Semiconductors requires little or no prior knowledge of solid state physics. More than 2100 references guide the reader to historic and current literature.

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Power Electronics Handbook Muhammad H. Rashid, 2023-09-27 *Power Electronics Handbook Fifth Edition* delivers an expert guide to power electronics and their applications The book examines the foundations of power electronics power semiconductor devices and power converters before reviewing a constellation of modern applications Comprehensively updated throughout this new edition features new sections addressing current practices for renewable energy storage transmission integration and operation as well as smart grid security intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles This handbook is aimed at practitioners and researchers undertaking projects requiring specialist design analysis installation commissioning and maintenance services Provides a fully comprehensive work addressing each aspect of power electronics in painstaking depth Delivers a methodical technical presentation in over 1500 pages Includes 50 contributions prepared by leading experts Offers practical support and guidance with detailed examples and applications for lab and field experimentation Includes new technical sections on smart grid security and intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles Features new chapter level templates and a narrative progression to facilitate understanding

Insulated Gate Bipolar Transistor IGBT Theory and Design Vinod Kumar Khanna, 2004-03-22 A comprehensive and state of the art coverage of the design and fabrication of IGBT All in one resource Explains the fundamentals of MOS and bipolar physics Covers IGBT operation device and process design power modules and new IGBT structures

Power Electronics Issa Batarseh, Ahmad Harb, 2017-12-22 This fully updated textbook provides complete coverage of electrical circuits and introduces students to the field of energy conversion technologies analysis and design Chapters are designed to equip students with necessary background material in such topics as devices switching circuit analysis techniques converter types and methods of conversion The book contains a large number of examples exercises and problems to help enforce the material presented in each chapter A detailed discussion of resonant and softswitching dc to dc converters is included along with the addition of new chapters covering digital control non linear control and micro inverters for power electronics applications Designed for senior undergraduate and graduate electrical engineering students this book provides students with the ability to analyze and design power electronic circuits used in various industrial applications

Sic Materials And Devices - Volume 2 Michael S Shur, Sergey Rumyantsev, Michael E Levinshtein, 2007-01-19 Silicon carbide is known to have been investigated since 1907 when Captain H J Round demonstrated yellow and blue emission by applying bias between a metal needle and an SiC crystal The potential of using SiC in semiconductor electronics was already recognized half a century ago Despite its well known properties it has taken a few decades to overcome the exceptional technological difficulties of getting silicon carbide material to reach device quality and travel the road from basic research to commercialization This second of two volumes reviews four important additional areas

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Limitations of Semiconductor Devices Vladislav A. Vashchenko,V. F. Sinkevitch,2008-03-22 Since the beginning of semiconductor era in microelectronics the methodology of reliability assessment became a well established area In most cases the reliability assessment involves statistical methods for safe operating area and long term re ability parameters at the development of semiconductor processes components and systems At the same time in case of catastrophic failures at any development phase the major practical method is failure analysis FA However FA is mainly dealing with detection of consequences of some irreversible event that already happened This book is focused on the most important and the less summarized reliability aspects Among them catastrophic failures impact of local structural inhomogeneities major principles of physical limitation of safe operating area SOA physical mechanisms of the current instability filamentation and conductivity modulation in particular device types and architectures Specifically the similar principles and regularities are discussed for elect static discharge ESD protection devices treating them as a particular case of pulsed power devices Thus both the most intriguing applications and reliability problems in case of the discrete and the integrated components are covered in this book *SiC Materials and Devices* Michael Shur,2007 Silicon carbide is known to have been investigated since 1907 when

Captain H J Round demonstrated yellow and blue emission by applying bias between a metal needle and an SiC crystal The potential of using SiC in semiconductor electronics was already recognized half a century ago Despite its well known properties it has taken a few decades to overcome the exceptional technological difficulties of getting silicon carbide material to reach device quality and travel the road from basic research to commercialization This second of two volumes reviews four important additional areas the growth of SiC substrates the deep defects in different SiC polytypes which after many years of research still define the properties of bulk SiC and the performance and reliability of SiC devices recent work on SiC JFETs and the complex and controversial issues important for bipolar devices Recognized leaders in the field the contributors to this volume provide up to date reviews of further state of the art areas in SiC technology and materials and device research

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J. David Irwin,1997-05-09 From traditional topics that form the core of industrial electronics to new and emerging concepts and technologies The Industrial Electronics Handbook in a single volume has the field covered Nowhere else will you find so much information on so many major topics in the field For facts you need every day and for discussions on topics you have only dreamed of The Industrial Electronics Handbook is an ideal reference **Laser Induced Damage in Optical**

Materials: Arthur H. Guenther,1977 **MOSFET Models for VLSI Circuit Simulation** Narain D. Arora,2012-12-06 Metal

Oxide Semiconductor MOS transistors are the basic building block of MOS integrated circuits. IC Very Large Scale Integrated VLSI circuits using MOS technology have emerged as the dominant technology in the semiconductor industry. Over the past decade the complexity of MOS ICs has increased at an astonishing rate. This is realized mainly through the reduction of MOS transistor dimensions in addition to the improvements in processing. Today VLSI circuits with over 3 million transistors on a chip with effective or electrical channel lengths of 0.5 microns are in volume production. Designing such complex chips is virtually impossible without simulation tools which help to predict circuit behavior before actual circuits are fabricated. However the utility of simulators as a tool for the design and analysis of circuits depends on the adequacy of the device models used in the simulator. This problem is further aggravated by the technology trend towards smaller and smaller device dimensions which increases the complexity of the models. There is extensive literature available on modeling these short channel devices. However there is a lot of confusion too. Often it is not clear what model to use and which model parameter values are important and how to determine them. After working over 15 years in the field of semiconductor device modeling I have felt the need for a book which can fill the gap between the theory and the practice of MOS transistor modeling. This book is an attempt in that direction.

Laser Induced Damage in Optical Materials, 1989 **Laser Induced Damage in Optical Materials: 1989** Alexander J. Glass, 1978 **Nanotechnology** Sunipa Roy, Chandan Kumar Ghosh, Chandan Kumar Sarkar, 2017-09-18. Nano particles have created a high interest in recent years by virtue of their unusual mechanical, electrical, optical and magnetic properties and find wide applications in all fields of engineering. This edited volume aims to present the latest trends and updates in nanogenerators, thin film solar cells and green synthesis of metallic nanoparticles with a focus on nanostructured semiconductor devices. Exclusive chapter on electrical transport of nanostructure explains device physics for material properties for reduced dimensions. Additionally the text describes the functionality of metallic nanoparticles and their application in molecular imaging and optical metamaterials. Piezoelectric nanogenerators has been touched upon from the energy perspective as well. Key Features: Organized contents on Nanogenerators, VOC sensing, nanoelectronics and NEMS. Discusses eco friendly green synthesis methods for metallic nanoparticles. Touches upon low power nano devices e.g. nanogenerators for energy harvesting with quantum mechanical study. Thin film heterojunction based high efficiency solar cell addressed aimed at reducing global energy consumption.

Power Semiconductor Devices B. Jayant Baliga, 1996 **Concise Handbook of Electronics and Electrical Engineering** VK Khanna, 1997. The Primary Goal of this hand book is to provide in a simple and easy way a concise and coherent presentation of the core material namely the key terminology, fundamental concepts, principles, laws, facts, figures, formulae, mathematical methods and applications of electrical and electronics engineering. A necessary corollary objective of this handbook is to prepare the reader for specialist literature. The material presented in this handbook is intended to serve as a platform from where the reader can launch to an exploration of specialised field of interest.

Principles of Inorganic Materials Design John N. Lalena, David A.

Cleary, Olivier B.M. Hardouin Duparc, 2020-05-27 Learn the fundamentals of materials design with this all inclusive approach to the basics in the field Study of materials science is an important aspect of curricula at universities worldwide This text is designed to serve students at a fundamental level positioning materials design as an essential aspect of the study of electronics medicine and energy storage Now in its 3rd edition Principles of Inorganic Materials Design is an introduction to relevant topics including inorganic materials structure property relations and material behaviors The new edition now includes chapters on computational materials science intermetallic compounds and covalent compounds The text is meant to aid students in their studies by providing additional tools to study the key concepts and understand recent developments in materials research In addition to the many topics covered the textbook includes Accessible learning tools to help students better understand key concepts Updated content including case studies and new information on computational materials science Practical end of chapter exercises to assist students with the learning of the material Short biographies introducing pioneers in the field of inorganic materials science For undergraduates just learning the material or professionals looking to brush up on their knowledge of current materials design information this text covers a wide range of concepts research and topics to help round out their education The foreword to the first edition was written by the 2019 Chemistry Nobel laureate Prof John B Goodenough

This book delves into Field Effect And Bipolar Power Transistor Physics. Field Effect And Bipolar Power Transistor Physics is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Field Effect And Bipolar Power Transistor Physics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Field Effect And Bipolar Power Transistor Physics
- Chapter 2: Essential Elements of Field Effect And Bipolar Power Transistor Physics
- Chapter 3: Field Effect And Bipolar Power Transistor Physics in Everyday Life
- Chapter 4: Field Effect And Bipolar Power Transistor Physics in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Field Effect And Bipolar Power Transistor Physics. The first chapter will explore what Field Effect And Bipolar Power Transistor Physics is, why Field Effect And Bipolar Power Transistor Physics is vital, and how to effectively learn about Field Effect And Bipolar Power Transistor Physics.

3. In chapter 2, the author will delve into the foundational concepts of Field Effect And Bipolar Power Transistor Physics. The second chapter will elucidate the essential principles that need to be understood to grasp Field Effect And Bipolar Power Transistor Physics in its entirety.

4. In chapter 3, the author will examine the practical applications of Field Effect And Bipolar Power Transistor Physics in daily life. This chapter will showcase real-world examples of how Field Effect And Bipolar Power Transistor Physics can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Field Effect And Bipolar Power Transistor Physics in specific contexts. The fourth chapter will explore how Field Effect And Bipolar Power Transistor Physics is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Field Effect And Bipolar Power Transistor Physics. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Field Effect And Bipolar Power Transistor Physics.

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