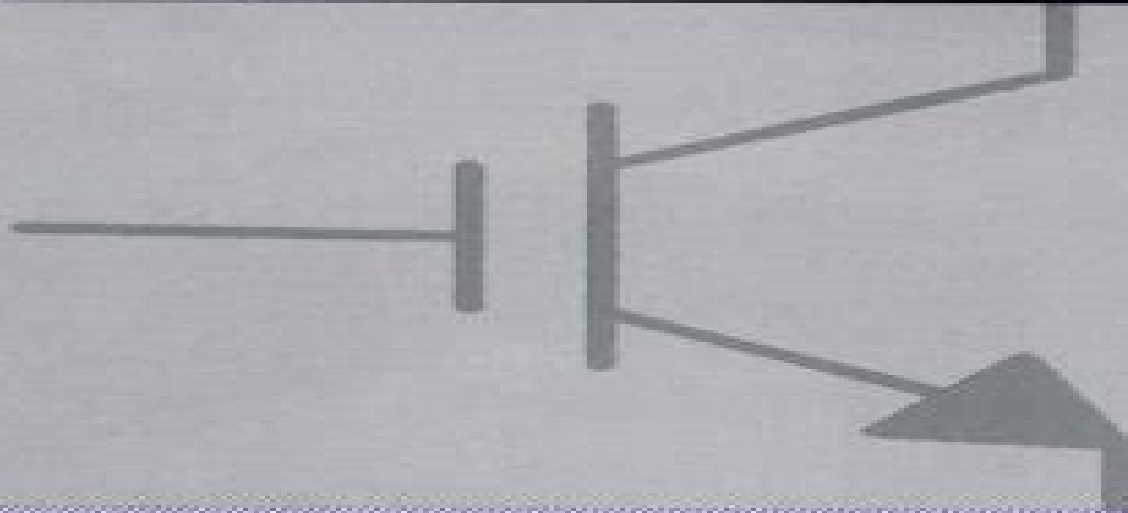


POWER SEMICONDUCTOR DEVICES

B. JAYANT BALIGA



Power Semiconductor Devices Baliga

A.A. Jaecklin



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Silicon Carbide Power Devices B Jayant Baliga, 2006-01-05 Power semiconductor devices are widely used for the control and management of electrical energy The improving performance of power devices has enabled cost reductions and efficiency increases resulting in lower fossil fuel usage and less environmental pollution This book provides the first cohesive treatment of the physics and design of silicon carbide power devices with an emphasis on unipolar structures It uses the results of extensive numerical simulations to elucidate the operating principles of these important devices Fundamentals of Power Semiconductor Devices B Jayant Baliga, 2016-04-01 This book 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 *Wide Bandgap Semiconductor Power Devices* B. Jayant Baliga, 2018-10-17 Wide Bandgap Semiconductor Power Devices Materials Physics Design and Applications provides readers with a single resource on why these devices are superior to existing silicon devices The book lays the groundwork for an understanding of an array of applications and anticipated benefits in energy savings Authored by the Founder of the Power Semiconductor Research Center at North Carolina State University and creator of the IGBT device Dr B Jayant Baliga is one of the highest regarded experts in the field He thus leads this team who comprehensively review the materials device physics design considerations and relevant applications discussed Comprehensively covers power electronic devices including materials both gallium nitride and silicon carbide physics design considerations and the most promising applications Addresses the key challenges towards the realization of wide bandgap power electronic devices including materials defects performance and reliability Provides the benefits of wide bandgap semiconductors including opportunities for cost reduction and social impact Gallium Nitride And Silicon Carbide Power Devices B Jayant Baliga, 2016-12-12 During the last 30 years significant progress has been made to improve our understanding of gallium nitride and silicon

carbide device structures resulting in experimental demonstration of their enhanced performances for power electronic systems Gallium nitride power devices made by the growth of the material on silicon substrates have gained a lot of interest Power device products made from these materials have become available during the last five years from many companies This comprehensive book discusses the physics of operation and design of gallium nitride and silicon carbide power devices It can be used as a reference by practicing engineers in the power electronics industry and as a textbook for a power device or power electronics course in universities Modern Silicon Carbide Power Devices B Jayant Baliga, 2023-09-18 Silicon Carbide power devices are being increasingly adopted for many applications such as electric vehicles and charging stations There is a large demand for a resource to learn and understand the basic physics of operation of these devices to create engineers with in depth knowledge about them This unique compendium provides a comprehensive design guide for Silicon Carbide power devices It systematically describes the device structures and analytical models for computing their characteristics The device structures included are the Schottky diode JBS rectifier power MOSFET JBSFET IGBT and BiDFET Unique structures that address achieving excellent voltage blocking and on resistance are emphasized This useful textbook and reference innovations for achieving superior high frequency operation and highlights manufacturing technology for the devices The book will benefit professionals academics researchers and graduate students in the fields of electrical and electronic engineering circuits and systems semiconductors and energy studies *The IGBT Device* B. Jayant Baliga, 2022-11-25 The IGBT Device Physics Design and Applications of the Insulated Gate Bipolar Transistor Second Edition provides the essential information needed by applications engineers to design new products using the device in sectors including consumer industrial lighting transportation medical and renewable energy The IGBT device has proven to be a highly important Power Semiconductor providing the basis for adjustable speed motor drives used in air conditioning and refrigeration and railway locomotives electronic ignition systems for gasoline powered motor vehicles and energy saving compact fluorescent light bulbs The book presents recent applications in plasma displays flat screen TVs and electric power transmission systems alternative energy systems and energy storage but it is also used in all renewable energy generation systems including solar and wind power This book is the first available on the applications of the IGBT It will unlock IGBT for a new generation of engineering applications making it essential reading for a wide audience of electrical and design engineers as well as an important publication for semiconductor specialists Presents essential design information for applications engineers utilizing IGBTs in the consumer industrial lighting transportation medical and renewable energy sectors Teaches the methodology for the design of IGBT chips including edge terminations cell topologies gate layouts and integrated current sensors Covers applications of the IGBT a device manufactured around the world by more than a dozen companies with sales exceeding 5 Billion Written by the inventor of the device this is the first book to highlight the key role of the IGBT in enabling electric vehicles and renewable energy systems with global impacts on climate change *Advanced*

Power Rectifier Concepts B. Jayant Baliga, 2009-06-16 During the last decade many new concepts have been proposed for improving the performance of power rectifiers and transistors The results of this research are dispersed in the technical literature among journal articles and abstracts of conferences Consequently the information is not readily available to researchers and practicing engineers in the power device community There is no cohesive treatment of the ideas to provide an assessment of the relative merits of the ideas *Advanced Power Rectifier Concepts* provides an in depth treatment of the physics of operation of advanced power rectifiers Analytical models for explaining the operation of all the advanced power rectifier devices will be developed The results of numerical simulations will be provided to provide additional insight into the device physics and validate the analytical models The results of two dimensional simulations will be provided to corroborate the analytical models and provide greater insight into the device operation

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Modern Power Devices B. Jayant Baliga, 1987-03-10 Written in a tutorial form the text supplies in depth the physics design and fabrication technology for power devices Each chapter includes a discussion of the basic concepts of device operation and their electrical characteristics a detailed analysis of the device physics and the technology of fabrication Extensive analytical solutions are used to enable the reader to obtain an understanding of the physics

Power Semiconductor Devices and Circuits A.A. Jaecklin, 2012-12-06 This symposium was the sCientific technical event of the centennial celebration of the Asea Brown Boveri Switzerland The purpose was to assess the present state of the art as well as shaping the basis for future progress in the area of power devices and related power circuits The merger of Brown Boveri BBC with Asea to Asea Brown Boveri ABB three years ago gave new stimulus and enriched the technical substance of the symposium By 1991 100 years after the formation of BBC in Switzerland as a single company this organization has been decentralized forming 35 independent ABB companies One of them ABB Semiconductors Ltd directly deals with the power semiconductor business These significant changes reflect the changes in the market place increased competition and higher customer expectations have to be fulfilled In line with the core business activities of ABB and with the concept of sustainable development it is natural for ABB to be active in the area of power devices and circuits Increased awareness towards energy conservation is one of the main drives for these activities User friendliness is another drive integration of intelligent functions e g protection and or increased direct computer interfacing of the power circuits Therefore also the R D activities related to the subject of this symposium will in the future be characterized by an even stronger coupling with the market needs For the members of the R D Laboratories

this means improved customer partnership beyond operational excellence Springer Handbook of Semiconductor Devices Massimo Rudan, Rossella Brunetti, Susanna Reggiani, 2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook's chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook *ISPSD '91* Muhammed Ayman Shibib, B. Jayant Baliga, 1991

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

Power Microelectronics: Device And Process Technologies Yung Chii Liang,Ganesh S Samudra,2009-05-20 This descriptive textbook provides an in depth look at the theories and process technologies necessary for understanding modern power semiconductor devices i e from the fundamentals of junction electrostatics p n junction devices unipolar MOSFET bipolar IGBT and superjunction devices to their associated silicon wafer process technology State of the art devices based on current research and development are included in the book to widen the scope for future device generation The detailed structure and performance merit of the devices are also presented together with laboratory measurements and SEM photographs Examples used in the book are based mainly on actual fabricated devices with the process steps described in clear detail This book is useful for senior year undergraduate courses on power semiconductor or power electronic devices as well as for graduate level courses especially those focusing on advanced device development and design aspects Device designers and researchers will also find this book a good reference in their work

The BaSIC Topology B. Jayant Baliga,Ajit Kanale,2025-05-19 The BaSIC topology is a revolutionary method for controlling power semiconductor devices It enables monitoring the current flow through the devices while providing a unique current limiting capability that enhances their short circuit withstand capability The book describes the BaSIC topology concept and contrasts it with previous approaches It provides an extensive description of the application of the BaSIC topology to silicon IGBTs silicon carbide power MOSFETs and GaN HEMT devices The ability to extend the short circuit withstand time to over 10 ms for SiC power MOSFETs has been achieved for the first time with the BaSIC topology The BaSIC topology is the only approach shown to eliminate the failure of these devices under repetitive short circuit events The sensing of current in paralleled devices is demonstrated eliminating the need for external sensors The BaSIC topology has utility for various power electronics applications including electric vehicles and industrial motor drives Introduces the BaSIC topology a revolutionary new approach for the control of power devices Describes the application of the BaSIC topology to silicon IGBTs silicon carbide power MOSFETs and GaN HEMT devices Written by the inventor of the insulated gate bipolar transistor IGBT and the BaSIC topology concept

Essderc'98 ,1998 **Semiconductor Power Devices** Josef Lutz,Heinrich Schlangenotto,Uwe Scheuermann,Rik De Doncker,2011-01-15 Semiconductor power devices are the heart of power electronics They determine the performance of power converters and allow topologies with high efficiency Semiconductor properties pn junctions and the physical phenomena for understanding power devices are discussed in depth Working principles of state of the art power diodes thyristors MOSFETs and IGBTs are explained in detail as well as key aspects of semiconductor device production technology

In practice not only the semiconductor but also the thermal and mechanical properties of packaging and interconnection technologies are essential to predict device behavior in circuits. Wear and aging mechanisms are identified and reliability analyses principles are developed. Unique information on destructive mechanisms including typical failure pictures allows assessment of the ruggedness of power devices. Also parasitic effects such as device induced electromagnetic interference problems are addressed. The book concludes with modern power electronic system integration techniques and trends.

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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Table of Contents Power Semiconductor Devices Baliga

1. Understanding the eBook Power Semiconductor Devices Baliga
 - The Rise of Digital Reading Power Semiconductor Devices Baliga
 - Advantages of eBooks Over Traditional Books
2. Identifying Power Semiconductor Devices Baliga
 - 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 Power Semiconductor Devices Baliga
 - User-Friendly Interface
4. Exploring eBook Recommendations from Power Semiconductor Devices Baliga

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

- Fact-Checking eBook Content of Power Semiconductor Devices Baliga
 - 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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