

EMIS PROCESSING SERIES 2

# PROCESS TECHNOLOGY FOR SILICON CARBIDE DEVICES



Edited by  
**Carl-Mikael Zetterling**

**INSPEC**

# Process Technology For Silicon Carbide Devices

**B Lingard**



## **Process Technology For Silicon Carbide Devices:**

Process Technology for Silicon Carbide Devices Carl-Mikael Zetterling, 2002 This book explains why SiC is so useful in electronics gives clear guidance on the various processing steps growth doping etching contact formation dielectrics etc and describes how these are integrated in device manufacture Physics and Technology of Silicon Carbide Devices Yasuto Hijikata, 2012-10-16 Recently some SiC power devices such as Schottky barrier diodes SBDs metal oxide semiconductor field effect transistors MOSFETs junction FETs JFETs and their integrated modules have come onto the market However to stably supply them and reduce their cost further improvements for material characterizations and those for device processing are still necessary This book abundantly describes recent technologies on manufacturing processing characterization modeling and so on for SiC devices In particular for explanation of technologies I was always careful to argue physics underlying the technologies as much as possible If this book could be a little helpful to progress of SiC devices it will be my unexpected happiness **Advancing Silicon Carbide Electronics Technology II** Konstantinos Zekentes, Konstantin

Vasilevskiy, 2020-03-15 The book presents an in depth review and analysis of Silicon Carbide device processing The main topics are 1 Silicon Carbide Discovery Properties and Technology 2 Processing and Application of Dielectrics in Silicon Carbide Devices 3 Doping by Ion Implantation 4 Plasma Etching and 5 Fabrication of Silicon Carbide Nanostructures and Related Devices The book is also suited as supplementary textbook for graduate courses Keywords Silicon Carbide SiC Technology Processing Semiconductor Devices Material Properties Polytypism Thermal Oxidation Post Oxidation Annealing Surface Passivation Dielectric Deposition Field Effect Mobility Ion Implantation Post Implantation Annealing Channeling Surface Roughness Dry Etching Plasma Etching Ion Etching Sputtering Chemical Etching Plasma Chemistry Micromasking Microtrenching Nanocrystal Nanowire Nanotube Nanopillar Nanoelectromechanical Systems NEMS **Advanced Silicon**

**Carbide Devices and Processing** Stephen Sadow, Francesco La Via, 2015-09-17 Since the production of the first commercially available blue LED in the late 1980s silicon carbide technology has grown into a billion dollar industry world wide in the area of solid state lighting and power electronics With this in mind we organized this book to bring to the attention of those well versed in SiC technology some new developments in the field with a particular emphasis on particularly promising technologies such as SiC based solar cells and optoelectronics We have balanced this with the more traditional subjects such as power electronics and some new developments in the improvement of the MOS system for SiC MOSFETs Given the importance of advanced microsystems and sensors based on SiC we also included a review on 3C SiC for both microsystem and electronic applications **Low Power Semiconductor Devices and Processes for Emerging**

**Applications in Communications, Computing, and Sensing** Sumeet Walia, 2018-08-06 The book addresses the need to investigate new approaches to lower energy requirement in multiple application areas and serves as a guide into emerging circuit technologies It explores revolutionary device concepts sensors and associated circuits and architectures that will

greatly extend the practical engineering limits of energy efficient computation The book responds to the need to develop disruptive new system architectures and semiconductor processes aimed at achieving the highest level of computational energy efficiency for general purpose computing systems Discusses unique technologies and material only available in specialized journal and conferences Covers emerging materials and device structures such as ultra low power technologies nanoelectronics and microsystem manufacturing Explores semiconductor processing and manufacturing device design and performance Contains practical applications in the engineering field as well as graduate studies Written by international experts from both academia and industry

**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

**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

**Fundamentals of Silicon Carbide Technology** Tsunenobu Kimoto,James A. Cooper,2014-11-24 A comprehensive introduction and up to date reference to SiC power semiconductor devices covering topics from material properties to applications Based on a number of breakthroughs in SiC material science and fabrication technology in the 1980s and 1990s the first SiC Schottky barrier diodes SBDs were released as commercial products in 2001 The SiC SBD market has grown significantly since that time and SBDs are now used

in a variety of power systems particularly switch mode power supplies and motor controls SiC power MOSFETs entered commercial production in 2011 providing rugged high efficiency switches for high frequency power systems In this wide ranging book the authors draw on their considerable experience to present both an introduction to SiC materials devices and applications and an in depth reference for scientists and engineers working in this fast moving field Fundamentals of Silicon Carbide Technology covers basic properties of SiC materials processing technology theory and analysis of practical devices and an overview of the most important systems applications Specifically included are A complete discussion of SiC material properties bulk crystal growth epitaxial growth device fabrication technology and characterization techniques Device physics and operating equations for Schottky diodes pin diodes JBS MPS diodes JFETs MOSFETs BJTs IGBTs and thyristors A survey of power electronics applications including switch mode power supplies motor drives power converters for electric vehicles and converters for renewable energy sources Coverage of special applications including microwave devices high temperature electronics and rugged sensors Fully illustrated throughout the text is written by recognized experts with over 45 years of combined experience in SiC research and development This book is intended for graduate students and researchers in crystal growth material science and semiconductor device technology The book is also useful for design engineers application engineers and product managers in areas such as power supplies converter and inverter design electric vehicle technology high temperature electronics sensors and smart grid technology

**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

**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

**Advancing Silicon Carbide Electronics Technology I** Konstantinos Zekentes, 2018-09-25 The rapidly advancing Silicon Carbide technology has a great potential in high temperature and high frequency electronics High thermal stability and outstanding chemical inertness make SiC an excellent material for high power low loss semiconductor devices The present volume presents the state of the art of SiC

device fabrication and characterization Topics covered include SiC surface cleaning and etching techniques electrical characterization methods and processing of ohmic contacts to silicon carbide analysis of contact resistivity dependence on material properties limitations and accuracy of contact resistivity measurements ohmic contact fabrication and test structure design overview of different metallization schemes and processing technologies thermal stability of ohmic contacts to SiC their protection and compatibility with device processing Schottky contacts to SiC Schottky barrier formation Schottky barrier inhomogeneity in SiC materials technology and design of 4H SiC Schottky and Junction Barrier Schottky diodes Si SiC heterojunction diodes applications of SiC Schottky diodes in power electronics and temperature light sensors high power SiC unipolar and bipolar switching devices different types of SiC devices including material and technology constraints on device performance applications in the area of metal contacts to silicon carbide status and prospects of SiC power devices

*SiC Power Materials* Zhe Chuan Feng, 2013-03-14 In the 1950s Shockley predicted that SiC would quickly replace Si as a result of its superior material properties In many ways he was right and today there is an active industry based on SiC with new achievements being reported every year This book reviews the progress achieved in SiC research and development particularly over the past 10 years It presents the essential properties of 3C 6H and 4H SiC polytypes including structural electrical optical surface and interface properties describes existing key SiC devices and also the challenges in materials growth and device fabrication of the 21st century Overall it provides an up to date reference book suitable for a broad audience of newcomers graduate students and engineers in industrial R D

**Advances in Silicon Carbide Processing and Applications** Stephen E. Saddow, Anant K. Agarwal, 2004 Learn the latest advances in SiC Silicon Carbide technology from the leading experts in the field with this new cutting edge resource The book is your single source for in depth information on both SiC device fabrication and system level applications This comprehensive reference begins with an examination of how SiC is grown and how defects in SiC growth can affect working devices Key issues in selective doping of SiC via ion implantation are covered with special focus on implant conditions and electrical activation of implants SiC applications discussed include chemical sensors motor control components high temperature gas sensors and high temperature electronics By cutting through the arcane data and jargon surrounding the hype on SiC this book gives an honest assessment of today's SiC technology and shows you how SiC can be adopted in developing tomorrow's applications

**Harsh Environment Electronics** Ahmed Sharif, 2019-03-19 Provides in depth knowledge on novel materials that make electronics work under high temperature and high pressure conditions This book reviews the state of the art in research and development of lead free interconnect materials for electronic packaging technology It identifies the technical barriers to the development and manufacture of high temperature interconnect materials to investigate into the complexities introduced by harsh conditions It teaches the techniques adopted and the possible alternatives of interconnect materials to cope with the impacts of extreme temperatures for implementing at industrial scale The book also examines the application of

nanomaterials current trends within the topic area and the potential environmental impacts of material usage Written by world renowned experts from academia and industry Harsh Environment Electronics Interconnect Materials and Performance Assessment covers interconnect materials based on silver gold and zinc alloys as well as advanced approaches utilizing polymers and nanomaterials in the first section The second part is devoted to the performance assessment of the different interconnect materials and their respective environmental impact Takes a scientific approach to analyzing and addressing the issues related to interconnect materials involved in high temperature electronics Reviews all relevant materials used in interconnect technology as well as alternative approaches otherwise neglected in other literature Highlights emergent research and theoretical concepts in the implementation of different materials in soldering and die attach applications Covers wide bandgap semiconductor device technologies for high temperature and harsh environment applications transient liquid phase bonding glass frit based die attach solution for harsh environment and more A pivotal reference for professionals engineers students and researchers Harsh Environment Electronics Interconnect Materials and Performance Assessment is aimed at materials scientists electrical engineers and semiconductor physicists and treats this specialized topic with breadth and depth

**One-Dimensional Nanostructures** Zhiming M Wang, 2008-07-20 One dimensional 1D nanostructures including nanowires nanotubes and quantum wires have been regarded as the most promising building blocks for nanoscale electronic and optoelectronic devices Worldwide efforts in both the theory and the experimental investigation of growth characterization and applications of 1D nanostructures have resulted in a mature multidisciplinary field In this book a wealth of state of the art information offers the opportunity to uncover the underlying science from diverse perspectives Leading researchers elucidate the synthesis and properties of 1D nanostructures for various morphologies and compositions semiconductor metal carbon etc as well as their considerable impact on spintronics information storage and the design of field effect transistors

**Electric Refractory Materials** Yukinobu Kumashiro, 2000-08-24 An exploration of electric refractory materials this book covers developments of blue light emitting diodes using GaN based nitrides for laser and high temperature and frequency devices Electric Refractory Materials introduces growth and evaluation standards of films and bulk crystals with consideration of band structure surface electronic structure and lattice vibrations It also covers heat capacity and thermal conductivity irradiation properties and selective surfaces Focusing on diamond material the book examines its synthesis and characterization as well as its electrical optical and conductive properties The book also discusses the use of silicon carbide boron compounds and other material used in electronic and light emitting devices

**Advanced Electronic Circuits** Mingbo Niu, 2018-06-13 This research book volume offers an important learning opportunity with insights into a variety of emerging electronic circuit aspects such as new materials energy harvesting architectures and compressive sensing technique Advanced circuit technologies are extremely powerful and developed rapidly They change industry They change lives And we know they can change the world The

exhibition on these new and exciting topics will benefit readers in related fields

**Two-Dimensional Nanostructures for Energy-Related Applications** Kuan Yew Cheong, 2017-03-27 This edited book focuses on the latest advances and development of utilizing two dimensional nanostructures for energy and its related applications Traditionally the geometry of this material refers to thin film or coating The book covers three main parts beginning with synthesis processing and property of two dimensional nanostructures for active and passive layers followed by topics on characterization of the materials It concludes with topics relating to utilization of the materials for usage in devices for energy and its related applications

*Silicon Carbide, Volume 2* Peter Friedrichs, Tsunenobu Kimoto, Lothar Ley, Gerhard Pensl, 2011-04-08 Silicon Carbide this easy to manufacture compound of silicon and carbon is said to be THE emerging material for applications in electronics High thermal conductivity high electric field breakdown strength and high maximum current density make it most promising for high powered semiconductor devices Apart from applications in power electronics sensors and NEMS SiC has recently gained new interest as a substrate material for the manufacture of controlled graphene SiC and graphene research is oriented towards end markets and has high impact on areas of rapidly growing interest like electric vehicles This volume is devoted to high power devices products and their challenges in industrial application Readers will benefit from reports on development and reliability aspects of Schottky barrier diodes advantages of SiC power MOSFETs or SiC sensors The authors discuss MEMS and NEMS as SiC based electronics for automotive industry as well as SiC based circuit elements for high temperature applications and the application of transistors in PV inverters The list of contributors reads like a Who's Who of the SiC community strongly benefiting from collaborations between research institutions and enterprises active in SiC crystal growth and device development Among the former are CREE Inc and Fraunhofer ISE while the industry is represented by Toshiba Nissan Infineon NASA Naval Research Lab and Rensselaer Polytechnic Institute to name but a few

**Modern Sensing Technologies** Subhas Chandra Mukhopadhyay, Krishanthi P. Jayasundera, Octavian Adrian Postolache, 2018-08-24 This book provides an overview of modern sensing technologies and reflects the remarkable advances that have been made in the field of intelligent and smart sensors environmental monitoring health monitoring and many other sensing and monitoring contexts in today's world It addresses a broad range of aspects from human health monitoring to the monitoring of environmental conditions from wireless sensor networks and the Internet of Things to structural health monitoring Given its breadth of scope the book will benefit researchers practitioners technologists and graduate students involved in the monitoring of systems within the human body functions and activities healthcare technologies and services the environment etc



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