SIC MATERIALS AND DEVICES

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Michael Shur Sergey Rumyantsev Michael Levinshtein



Sic Materials And Devices

Michael S Shur, Sergey
Rumyantsev, Michael E Levinshtein

Sic Materials And Devices:

SiC Materials and Devices Michael Shur, Sergey L. Rumyantsev, Mikhail Efimovich Levinshtein, 2006 After many years of research and development silicon carbide has emerged as one of the most important wide band gap semiconductors The first commercial SiC devices OCo power switching Schottky diodes and high temperature MESFETs OCo are now on the market This two volume book gives a comprehensive up to date review of silicon carbide materials properties and devices With contributions by recognized leaders in SiC technology and materials and device research SiC Materials and Devices is essential reading for technologists scientists and engineers who are working on silicon carbide or other wide band gap materials and devices The volumes can also be used as supplementary textbooks for graduate courses on silicon carbide and wide band gap semiconductor technology Contents SiC Material Properties G Pensl et al SiC Homoepitaxy and Heteroepitaxy A S Bakin Ohmic Contacts to SiC F Roccaforte et al Silicon Carbide Schottky Barrier Diode J H Zhao et al High Power SiC PiN Rectifiers R Singh Silicon Carbide Diodes for Microwave Applications K Vassilevski SiC Thyristors M E Levinshtein et al Silicon Carbide Static Induction Transistors G C DeSalvo Readership Technologists scientists engineers and graduate students working on silicon carbide or other wide band gap materials and devices **SiC Materials and Devices** Michael Shur, Sergey L. Rumyantsev, M. E. Levinshtei?n, 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

Sic Materials And Devices - Volume 1 Sergey Rumyantsev, Michael S Shur, Michael E Levinshtein, 2006-07-25 After many years of research and development silicon carbide has emerged as one of the most important wide band gap semiconductors. The first commercial SiC devices power switching Schottky diodes and high temperature MESFETs are now on the market. This two volume book gives a comprehensive up to date review of silicon carbide materials properties and devices. With contributions by recognized leaders in SiC technology and materials and device research. SiC Materials and Devices is essential reading for technologists scientists and engineers who are working on silicon carbide or other wide band gap materials and devices. The volumes can also be used as supplementary textbooks for graduate courses on silicon carbide and wide band gap semiconductor technology.

Handbook of Silicon Carbide Materials and Devices.

Feng, 2023-05-31 This handbook presents the key properties of silicon carbide SiC the power semiconductor for the 21st century It describes related technologies reports the rapid developments and achievements in recent years and discusses the remaining challenging issues in the field The book consists of 15 chapters beginning with a chapter by Professor W J Choyke the leading authority in the field and is divided into four sections The topics include presolar SiC history vapor liquid solid growth spectroscopic investigations of 3C SiC Si developments and challenges in the 21st century CVD principles and techniques homoepitaxy of 4H SiC cubic SiC grown on 4H SiC SiC thermal oxidation processes and MOS interface Raman scattering NIR luminescent studies Mueller matrix ellipsometry Raman microscopy and imaging 4H SiC UV photodiodes radiation detectors and short wavelength and synchrotron X ray diffraction This comprehensive work provides a strong contribution to the engineering materials and basic science knowledge of the 21st century and will be of interest to material growers designers engineers scientists postgraduate students and entrepreneurs 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 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 Advancing Silicon Carbide Electronics Technology I Konstantinos Zekentes, Konstantin Vasilevskiy, 2018-09-20 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 Materials** Special Issue: SiC Materials and Devices Sergey Rumyantsev, Michael S. Shur, 2005 SiC Power and Devices ,2005 Materials Zhe Chuan Feng, 2004-06-09 In the 1950s Shockley predicted that SiC would guickly 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 **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** Chuan Feng Zhe, 2003-10-30 This book will provide useful information to material growers and evaluators device design and processing engineers as well as

potential users of SiC technologies This book will help identify remaining challenging issues to stimulate further investigation to realize the full potential of wide band gap SiC for optoelectronic and microelectronic applications Silicon Carbide Moumita Mukherjee, 2011-10-10 Silicon Carbide SiC and its polytypes used primarily for grinding and high temperature ceramics have been a part of human civilization for a long time. The inherent ability of SiC devices to operate with higher efficiency and lower environmental footprint than silicon based devices at high temperatures and under high voltages pushes SiC on the verge of becoming the material of choice for high power electronics and optoelectronics What is more important SiC is emerging to become a template for graphene fabrication and a material for the next generation of sub 32nm semiconductor devices It is thus increasingly clear that SiC electronic systems will dominate the new energy and transport technologies of the 21st century In 21 chapters of the book special emphasis has been placed on the materials aspects and developments thereof To that end about 70% of the book addresses the theory crystal growth defects surface and interface properties characterization and processing issues pertaining to SiC The remaining 30% of the book covers the electronic device aspects of this material Overall this book will be valuable as a reference for SiC researchers for a few years to come This book prestigiously covers our current understanding of SiC as a semiconductor material in electronics The primary target for the book includes students researchers material and chemical engineers semiconductor manufacturers and professionals who are interested in silicon carbide and its continuing progression Thin Film Materials Technology Kiyotaka Wasa, Makoto Kitabatake, Hideaki Adachi, 2004-05-10 An invaluable resource for industrial science and engineering newcomers to sputter deposition technology in thin film production applications this book is rich in coverage of both historical developments and the newest experimental and technological information about ceramic thin films a key technology for nano materials in high speed information applications and large area functional coating such as automotive or decorative painting of plastic parts among other topics In seven concise chapters the book thoroughly reviews basic thin film technology and deposition processes sputtering processes structural control of compound thin films and microfabrication by Semiconductors and Semimetals Robert K. Willardson, Albert C. Beer, 1998 **Silicon Carbide** Zhe Chuan sputtering Feng, Jian H. Zhao, 2004 Semiconductors and Semimetals: SiC materials and devices Robert K. Willardson, Albert C. Advancing Silicon Carbide Electronics Technology II Konstantinos Zekentes, Konstantin Vasilevskiy, 2020-03-15 Beer, 1966 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 **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 Silicon Carbide. III-Nitrides and Related Materials Gerhard Pensl, Hadis Morkoc, B. Monemar, Erik Janzén, 1998-02-01 Proceedings of the 7th International Conference on Silicon Carbide III Nitrides and Related Materials ICSCIII N 97 Stockholm Sweden September 1997 Materials Science and Engineering Technology Zhang Mei, 2014-06-30 Selected peer reviewed papers from the 2014 International Conference on Materials Science and Engineering Technology MSET 2014 June 28 29 2014 Shanghai China

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