

Sic Power Module Rohm

SiC based Miniaturized DevicesSilicon Carbide CeramicsElectric Drive System Design for Electric VehiclesAsia Electronics IndustryIntegrated CircuitsIC MasterPlunkett's Engineering & Research Industry Almanac 2007: Engineering & Research Industry Market Research, Statistics, Trends & Leading CompaniesLinear Integrated CircuitsPlunkett's InfoTech Industry AlmanacDisplay DeviceIntegrated Circuits. Linear Integrated CircuitsElectronic Business TodayEDN, Electrical Design NewsMoody's International ManualElectronic Products MagazineElectronics WorldEDNElectronic DesignMergent International ManualSecurity Stephen Edward Sadow Andrew J. Ruys Yunqi Zheng Jack W. Plunkett Jack W. Plunkett Derivation and Tabulation Associates, inc

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mems devices are found in many of today s electronic devices and systems from air bag sensors in cars to smart phones embedded systems etc increasingly the reduction in dimensions has led to nanometer scale devices called nems the plethora of applications on the commercial market speaks for itself and especially for the highly precise manufacturing of silicon based mems and nems while this is a tremendous achievement silicon as a material has some drawbacks mainly in the area of mechanical fatigue and thermal properties silicon carbide sic a well known wide bandgap semiconductor whose adoption in commercial products is experiencing exponential growth especially in the power electronics arena while sic mems have been around for decades in this special issue we seek to capture both an overview of the devices that have been demonstrated to date as well as bring new technologies and progress in the mems processing area to the forefront thus this special issue seeks to showcase research papers short communications and review articles that focus on 1 novel designs fabrication control and modeling of sic mems and nems based on all kinds of actuation mechanisms and 2 new developments in applying sic mems and nems in consumer electronics optical communications industry medicine agriculture space and defense

it has been three decades since the last significant book was published on sic ceramics other than those books that specifically focus on sic semiconductors thirty years has been a long time in the world of sic ceramics in the early 1990s sic was still a relatively obscure ceramic even within the materials community prominent only as an industrial abrasive carborundum and a refractory chapter 7 this has all changed dramatically in the 21st century for example as a semiconductor sic greatly surpasses silicon in performance

especially in high power systems its market penetration since its launch in 2001 has been exponential single crystal sic semiconductors are covered in chapter 3 millions of military and paramilitary personnel have globally been protected with lightweight sic body armour since the late 1990s body armour is covered in chapters 4 and 5 sic sic is a composite material close to commercialization that makes possible high temperature load bearing applications hitherto only able to be hypothesized from ultra high temperature jet turbine blades to advanced nuclear fuel encapsulation the possibilities are very promising aerospace applications are covered in chapter 9 other key areas that are addressed are blast resistant sic vehicle vessel armour in chapter 8 and wear resistant sic ceramics in chapter 6 silicon carbide ceramics will be an essential reference resource for academic and industrial researchers and materials scientists and engineers working in ceramic materials for the semiconductor defence aerospace wear resistance and refractory fields presents an extensive review of the history production and properties of sic ceramics including their characterization and applications discusses classical and state of the art sintering technologies for sic ceramics focuses on the future of ceramic manufacturing and advanced ceramic additive technologies

electric drive system design for electric vehicles bridges the gap between specialized research on electric vehicle ev electric drive system design principles and developing industry driven solutions it addresses best practices for ensuring the performance and reliability of ev electric drive systems including battery motor and power electronic components based on the author s hands on experience the book takes a multidisciplinary approach to ev drive system design combining electrical engineering thermal design mechanical engineering and manufacturing expertise to deliver efficient reliable and high performance solutions it includes case studies and practical examples from the industry reviewing state of the art electric system technologies in current evs such as lucid tesla chevrolet vw nissan and more readers will also obtain insight into how fundamental physics plays a critical role in those technological advancements and innovations this book will benefit academic researchers and graduate students studying power electronic packaging and electric drive systems it will also serve industry professionals involved in ev design and general power electronic system packaging

a guide to the trends and leading companies in the engineering research design innovation and development business fields this book contains most of the data you need on the american engineering research industry it includes market analysis r d data and several statistical tables and nearly 400 profiles of engineering and research firms

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