

Parameter	Semiconductor Material	
	GaAs	Si
Depletion width (cm)	4.33×10^{-5}	3.34×10^{-5}
Width of depletion(cm)	3.94×10^{-5}	3.03×10^{-5}
Emitter depletion width (cm)	4.34×10^{-8}	3.43×10^{-8}
Electric field (V/m)	5.91×10^4	5.25×10^4
Base diffusion (cm ² /s)	221	39
Emitter diffusion (cm ² /s)	10.4	11.7
Flow time(s)	2.7×10^{-11}	1.88×10^{-11}
Flow speed (cm/s)	1.5×10^{-6}	1.8×10^{-6}
Base diffusion length (cm)	0.004	0.009
Emitter diffusion length (cm)	0.001	0.005
Diameter(cm)	2.38×10^{-5}	2.09×10^{-5}
Active area (cm)	1.03×10^{-9}	7.18×10^{-10}
Material absorption coefficient (cm ⁻¹)	8.74×10^{-3}	2.98×10^5
Depletion width (cm)	4.33×10^{-5}	3.34×10^{-5}
Width of depletion(cm)	3.94×10^{-5}	3.03×10^{-5}

Semiconductor Parameters

Keh Yung Cheng



Semiconductor Parameters:

Handbook Series on Semiconductor Parameters: Ternary and quaternary A3B5 semiconductors M. Levinshtein, S. Rumyantsev, Michael Shur, 1996 The Handbook Series on Semiconductor Parameters will consist of 5 volumes and will include data on the most popular semiconductor materials These volumes aim to be a basic reference for scientists engineers students and technicians working in semiconductor materials and devices The books have been kept compact but comprehensive and contain the values of frequently needed parameters selected and commented by leading experts on these materials The first volume will include data on Si Ge diamond GaAs GaP GaSb InAs InP and InSb **Handbook Series on Semiconductor Parameters** M. Levinshtein, Michael Shur, 1999 The Handbook Series on Semiconductor Parameters will consist of 5 volumes and will include data on the most popular semiconductor materials These volumes aim to be a basic reference for scientists engineers students and technicians working in semiconductor materials and devices The books have been kept compact but comprehensive and contain the values of frequently needed parameters selected and commented by leading experts on these materials The first volume will include data on Si Ge diamond GaAs GaP GaSb InAs InP and InSb

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Handbook Series On Semiconductor Parameters, Vol. 1: Si, Ge, C (Diamond), Gaas, Gap, Gasb, Inas, Inp, Insb Michael S Shur, 1996-11-22 The Handbook Series on Semiconductor Parameters will consist of 5 volumes and will include data on the most popular semiconductor materials These volumes aim to be a basic reference for scientists engineers students and technicians working in semiconductor materials and devices The books have been kept compact but comprehensive and contain the values of frequently needed parameters selected and commented by leading experts on these materials The first volume will include data on Si Ge diamond GaAs GaP GaSb InAs InP and InSb *The Materials Science of Semiconductors* Angus Rockett, 2007-11-20 This book describes semiconductors from a materials science perspective rather than from condensed

matter physics or electrical engineering viewpoints It includes discussion of current approaches to organic materials for electronic devices It further describes the fundamental aspects of thin film nucleation and growth and the most common physical and chemical vapor deposition techniques Examples of the application of the concepts in each chapter to specific problems or situations are included along with recommended readings and homework problems **Survey of**

Semiconductor Physics Karl W. Böer, 2012-12-06 Any book that covers a large variety of subjects and is written by one author lacks by necessity the depth provided by an expert in his or her own field of specialization This book is no exception It has been written with the encouragement of my students and colleagues who felt that an extensive card file I had accumulated over the years of teaching solid state and semiconductor physics would be helpful to more than just a few of us This file updated from time to time contained lecture notes and other entries that were useful in my research and permitted me to give to my students a broader spectrum of information than is available in typical textbooks When assembling this material into a book I divided the topics into material dealing with the homogeneous semiconductor the subject of the previously published Volume 1 and the inhomogeneous semiconductor the subject of this Volume 2 In order to keep the book to a manageable size sections of tutorial character which can be used as text for a graduate level class had to be interwoven with others written in shorter reference style The pointers at the right hand page header will assist in distinguishing the more difficult reference parts of the book with the pointer to the right from the more easy to read basic educational sections with the pointer tending to the left Survey of Semiconductor Physics Karl Wolfgang Böer, 1990 Taking up where the first volume left off this work provides coverage of the inhomogeneous semiconductor It deals mainly with Si and GaAs but also investigates other materials of theoretical and practical interest such as Ge other III V and II VI compounds and amorphous SiH Equipped with this source physicists semiconductor engineers device engineers and fabrication engineers will have access to a vast reservoir of practical information on the design production and operations of semiconductor devices

Semiconductor Power Electronics Richard G. Hoft, 2012-12-06 Semiconductors have been used widely in signal level or brain applications Since their invention in 1948 transistors have revolutionized the electronics industry in computers information processing and communications Now however semiconductors are being used more and more where considerable power is required Devices such as high power bipolar junction transistors and power field effect transistors as well as SCRs TRIACs GTOs and other semiconductor switching devices that use a p n p n regenerative effect to achieve bistable action are expanding the power handling horizons of semiconductors and finding increasing application in a wide range of products including regulated power supplies lamp dimmers motor drives pulse modulators and heat controls HVDC and electric vehicle propulsion are two additional areas of application which may have a very significant long range impact on the technology The impact of solid state devices capable of handling appreciable power levels has yet to be fully realized Since it first became available in late 1957 the SCR or silicon controlled rectifier also called the reverse blocking triode thyristor has

become the most popular member of the thyristor family At present SCRs are available from a large number of manufacturers in this country and abroad SCR ratings range from less than one ampere to over three thousand amperes with voltage ratings in excess of three thousand volts

Optical Properties and Applications of Semiconductors

Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Tariq Altalhi, 2022-07-18 Semiconductors with optical characteristics have found widespread use in evolving semiconductor photovoltaics where optical features are important The industrialization of semiconductors and their allied applications have paved the way for optical measurement techniques to be used in new ways Due to their unique properties semiconductors are key components in the daily employed technologies in healthcare computing communications green energy and a range of other uses This book examines the fundamental optical properties and applications of semiconductors It summarizes the information as well as the optical characteristics and applicability of semiconductors through an in depth review of the literature Accomplished experts in the field share their knowledge and examine new developments FEATURES Comprehensive coverage of all types of optical applications using semiconductors Explores relevant composite materials and devices for each application Addresses the optical properties of crystalline and amorphous semiconductors Describes new developments in the field and future potential applications Optical Properties and Applications of Semiconductors is a comprehensive reference and an invaluable resource for engineers scientists academics and industry R D teams working in applied physics

Introduction To Semiconductor Physics

Holger T Grahn, 1999-04-19 This book covers the physics of semiconductors on an introductory level assuming that the reader already has some knowledge of condensed matter physics Crystal structure band structure carrier transport phonons scattering processes and optical properties are presented for typical semiconductors such as silicon but III V and II VI compounds are also included In view of the increasing importance of wide gap semiconductors the electronic and optical properties of these materials are dealt with too

Breakdown Phenomena in Semiconductors and Semiconductor Devices

Michael Levinshtein, Juha Kostamovaara, Sergey Vainshtein, 2005 Impact ionization avalanche and breakdown phenomena form the basis of many very interesting and important semiconductor devices such as avalanche photodiodes avalanche transistors suppressors sharpening diodes diodes with delayed breakdown as well as IMPATT and TRAPATT diodes In order to provide maximal speed and power many semiconductor devices must operate under or very close to breakdown conditions Consequently an acquaintance with breakdown phenomena is essential for scientists or engineers dealing with semiconductor devices The aim of this book is to summarize the main experimental results on avalanche and breakdown phenomena in semiconductors and semiconductor devices and to analyze their features from a unified point of view Attention is focused on the phenomenology of avalanche multiplication and the various kinds of breakdown phenomena and their qualitative analysis

III-V Compound Semiconductors and Devices

Keh Yung Cheng, 2020-11-08 This textbook gives a complete and fundamental introduction to the properties of III V compound semiconductor devices highlighting the

theoretical and practical aspects of their device physics Beginning with an introduction to the basics of semiconductor physics it presents an overview of the physics and preparation of compound semiconductor materials as well as a detailed look at the electrical and optical properties of compound semiconductor heterostructures The book concludes with chapters dedicated to a number of heterostructure electronic and photonic devices including the high electron mobility transistor the heterojunction bipolar transistor lasers unipolar photonic devices and integrated optoelectronic devices Featuring chapter end problems suggested references for further reading as well as clear didactic schematics accompanied by six information rich appendices this textbook is ideal for graduate students in the areas of semiconductor physics or electrical engineering In addition up to date results from published research make this textbook especially well suited as a self study and reference guide for engineers and researchers in related industries **Semiconductors and Semimetals** ,1971-11-12

Semiconductors and Semimetals GaN-based Materials and Devices Michael Shur,Robert Foster Davis,2004 The unique materials properties of GaN based semiconductors have stimulated a great deal of interest in research and development regarding nitride materials growth and optoelectronic and nitride based electronic devices High electron mobility and saturation velocity high sheet carrier concentration at heterojunction interfaces high breakdown field and low thermal impedance of GaN based films grown over SiC or bulk AlN substrates make nitride based electronic devices very promising The chemical inertness of nitrides is another key property This volume written by experts on different aspects of nitride technology addresses the entire spectrum of issues related to nitride materials and devices and it will be useful for technologists scientists engineers and graduate students who are working on wide bandgap materials and devices The book can also be used as a supplementary text for graduate courses on wide bandgap semiconductor technology **Handbook of Microwave and Radar Engineering** Anatoly Belous,2021-01-04 This comprehensive handbook provides readers with a single source reference to the theoretical fundamentals physical mechanisms and principles of operation of all known microwave devices and various radars The author discusses proven methods of computation and design development process schematic schematic technical and construction peculiarities of each breed of the microwave devices as well as the most popular and original technical solutions for radars Coverage also includes the history of creation of the most widely used radars as well as guidelines for their potential upgrading Offers readers a comprehensive systematized view of all contemporary knowledge acquired during the last 20 years on radars and related disciplines Provides a single source reference on the physical mechanisms and principles of operation of the basic components of radio location devices including theoretical aspects of designing the necessary high efficiency electronic devices and systems as well as key practical methods of computation and design Presents complex topics using simple language minimizing mathematics **Semiconductor Materials and Modelling for Solar Cells** Z. Pezeshki,A. Zekry,2021-07-05 The book presents a comprehensive survey about advanced solar cell technologies Focus is placed on semiconductor materials solar cell efficiency improvements in surface

recombination velocity charge density high ultraviolet UV sensitivity modeling of solar cells etc The book references 281 original resources with their direct web links for in depth reading Keywords Solar Cells Thin Film Solar Cells Solar Cell Efficiency Semiconductor Materials Surface Recombination Velocity Charge Density High UV Sensitivity Heavily doped Silicon Wafers Amorphous Semiconductors Nanocrystalline Semiconductors Field Effect Ferroelectric Semiconductors Solar Cell Modelling

Offshore Wind Farms Chong Ng,Li Ran,2016-03-03 Offshore Wind Farms Technologies Design and Operation provides the latest information on offshore wind energy one of Europe s most promising and quickly maturing industries and a potentially huge untapped renewable energy source which could contribute significantly towards EU 20 20 renewable energy generation targets It has been estimated that by 2030 Europe could have 150GW of offshore wind energy capacity meeting 14% of our power demand Offshore Wind Farms Technologies Design and Operation provides a comprehensive overview of the emerging technologies design and operation of offshore wind farms Part One introduces offshore wind energy as well as offshore wind turbine siting with expert analysis of economics wind resources and remote sensing technologies The second section provides an overview of offshore wind turbine materials and design while part three outlines the integration of wind farms into power grids with insights to cabling and energy storage The final section of the book details the installation and operation of offshore wind farms with chapters on condition monitoring and health and safety amongst others Provides an in depth multi contributor comprehensive overview of offshore technologies including design monitoring and operation Edited by respected and leading experts in the field with experience in both academia and industry Covers a highly relevant and important topic given the great potential of offshore wind power in contributing significantly to EU 20 20 20 renewable energy targets

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

Advances in Materials Sam Stuart,2016-04-19 Advances in

Materials surveys the developments in materials science and technology This book examines the limitations imposed by materials on the development of technology Organized into 34 chapters this book begins with an overview of the techniques in solving the technical challenge in the field of materials This text then defines the difficult environments considered in this investigation which include mechanical stress erosion chemical attack and thermal shock at temperatures above about 1200 C Other chapters consider the successful development of nuclear thermionic converters which centers heavily on the development of materials capable of enduring rather difficult working conditions for longer periods of time This book discusses as well the techniques such as the planar and epitaxy technique employed in the production of devices The final chapter deals with the rate of development in the equipment used in the fabrication of plastics This book is a valuable resource for polymer scientists materials scientists engineers and metallurgists

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