

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

Karl Wolfgang Böer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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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

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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. **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. **Electronic Properties of Inhomogeneous Semiconductors**

A.Y. Shik, 1995-10-06 *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.

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Handbook of Nitride Semiconductors and Devices, Materials Properties, Physics and Growth Hadis Morkoç, 2009-07-30 The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section Volume 1 deals with the properties and growth of GaN The deposition methods considered are hydride VPE organometallic CVD MBE and liquid high pressure growth Additionally extended defects and their electrical nature point defects and doping are reviewed

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

Practical Handbook of Photovoltaics T. Markvart, L.

Castaner, 2003-10-30 This handbook opens with an overview of solar radiation and how its energy can be tapped using photovoltaic cells Other chapters cover the technology manufacture and application of PV cells in real situations The book ends by exploring the economic and business aspects of photovoltaics

Physics and Properties of Narrow Gap

Semiconductors Junhao Chu, Arden Sher, 2007-11-21 Narrow gap semiconductors obey the general rules of semiconductor science but often exhibit extreme features of these rules because of the same properties that produce their narrow gaps Consequently these materials provide sensitive tests of theory and the opportunity for the design of innovative devices For example narrow gap semiconductors are the most important materials for the preparation of advanced modern infrared systems In this book the authors offer clear descriptions of crystal growth and the fundamental structure and properties of these unique materials Topics covered include band structure optical and transport properties and lattice vibrations and spectra A thorough treatment of the properties of low dimensional systems and their relation to infrared applications is provided In addition to covering the technology of photoconductive detectors photovoltaic detectors metal insulator semiconductor devices quantum well infrared photodetectors infrared lasers and single photon detectors **Physics and Properties of Narrow Gap Semiconductors** helps readers to understand semiconductor physics and related areas of materials science and how they relate to advanced optoelectronic devices

Semiconductor Radiation Detectors Alan

Owens, 2019-05-31 Choice Recommended Title July 2020 Bringing together material scattered across many disciplines **Semiconductor Radiation Detectors** provides readers with a consolidated source of information on the properties of a wide range of semiconductors their growth characterization and the fabrication of radiation sensors with emphasis on the X and gamma ray regimes It explores the promise and limitations of both the traditional and new generation of semiconductors and discusses where the future in semiconductor development and radiation detection may lie The purpose of this book is two

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Introduction to Organic Semiconductor Heterojunctions

Donghang Yan, Haibo Wang, Baoxun Du, 2010-11-15 It is well known that most important electronic devices use Schottky junctions and heterojunctions Unfortunately there is not an advanced book introducing heterojunctions systematically Introduction to Organic Semiconductor Heterojunctions fills the gap In this book the authors provide a comprehensive discussion and systematic introduction on the state of the art technologies as well as application of organic semiconductor heterojunctions First book to systematically introduce organic heterojunctions Arms readers with theoretical experimental and applied aspects of organic heterojunctions The Chinese edition of the book is part of the Chinese Academy of Sciences Distinguished Young Scholar Scientific Book Series Introduction to Organic Semiconductor Heterojunctions is an ideal and valued reference for researchers and graduate students focusing on organic thin film devices like organic light emitting diodes OLEDs organic photovoltaic OPV cells and organic field effect transistors OFETs Instructors can use the book as a supplementary text for a semiconductor physics or organic electronics course giving students a better feel for the application of organic thin film devices

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

The Electronics Handbook

Jerry C. Whitaker, 1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include
December 16 Görlich, 2022-01-19 No detailed description available for December 16
Handbook for III-V High Electron Mobility Transistor Technologies D. Nirmal, J.

Ajayan,2019-05-14 This book focusses on III V high electron mobility transistors HEMTs including basic physics material used fabrications details modeling simulation and other important aspects It initiates by describing principle of operation material systems and material technologies followed by description of the structure I V characteristics modeling of DC and RF parameters of AlGa_N Ga_N HEMTs The book also provides information about source drain engineering gate engineering and channel engineering techniques used to improve the DC RF and breakdown performance of HEMTs Finally the book also highlights the importance of metal oxide semiconductor high electron mobility transistors MOS HEMT Key Features Combines III As P N HEMTs with reliability and current status in single volume Includes AC DC modelling and sub millimeter wave devices with reliability analysis Covers all theoretical and experimental aspects of HEMTs Discusses AlGa_N Ga_N transistors Presents DC RF and breakdown characteristics of HEMTs on various material systems using graphs and plots

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

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

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