SEMICONDUCTORS AND SEMIMETALS

VOLUME 117

Semiconductor Metasurfaces
Part 2

Edited By

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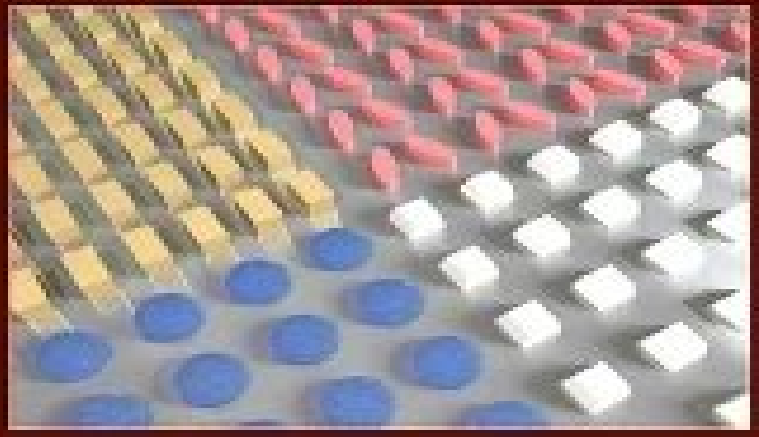

Semiconductors Semimetals Volume 3 Optical

Jianjun Gao

Semiconductors Semimetals Volume 3 Optical:

Semiconductors and Semimetals ,1978-02-22 Semiconductors and Semimetals **Handbook of Optical Constants of Solids, Five-Volume Set** Edward D. Palik,1997-12-10 This set of five volumes four volumes edited by Edward D Palik and a volume by Gorachand Ghosh is a unique resource for any science and technology library It provides materials researchers and optical device designers with reference facts in a context not available anywhere else The singular functionality of the set derives from the unique format for the three core volumes that comprise the Handbook of Optical Constants of Solids The Handbook satisfies several essential needs first it affords the most comprehensive database of the refractive index and extinction or loss coefficient of technically important and scientifically interesting dielectrics This data has been critically selected and evaluated by authorities on each material Second the dielectric constant database is supplemented by tutorial chapters covering the basics of dielectric theory and reviews of experimental techniques for each wavelength region and material characteristic As an additional resource two of the tutorial chapters summarize the relevant characteristics of each of the materials in the database The data in the core volumes have been collected and analyzed over a period of twelve years with the most recent completed in 1997 The volumes systematically define the dielectric properties of 143 of the most engaging materials including metals semiconductors and insulators Together the three Palik books contain nearly 3 000 pages with about 2 3 devoted to the dielectric constant data The tutorial chapters in the remaining 1 3 of the pages contain a wealth of information including some dielectric data Hence the separate volume Index to Handbook of Optical Constants of Solids which is included as part of the set substantially enhances the utility of the Handbook and in essence joins all the Palik volumes into one unit It isthen of great importance to users of the set A final volume rounds out the set The Handbook of Thermo Optic Coefficients of Optical Materials with Applications collects refractive index measurements and their temperature dependence for a large number of crystals and glasses Mathematical models represent these data and in turn are used in the design of nonlinear optical devices Unique source of extremely useful optical data for a very broad community of scientists researchers and practitioners Will be of great practical applicability to both industry and research Presents optical constants for a broadest spectral range for a very large number of materials Paliks three volumes include 143 materials including 43 elements Ghoshs volume includes some 70 technologically interesting crystals and many commercial glasses Includes a special index volume that enables the user to search for the information in the three Palik volumes easily and quickly Critique chapters in the Palik volumes discuss the data and give reference to most of the literature available for each material Presents various techniques for measuring the optical constants and mathematical models for analytical calculations of some data The Spectroscopy of Semiconductors ,1992-07-31 Spectroscopic techniques are among the most powerful characterization methods used to study semiconductors This volume presents reviews of a number of major spectroscopic techniques used to investigate bulk and artificially structured semiconductors including photoluminescence

photo reflectance inelastic light scattering magneto optics ultrafast work piezo spectroscopy methods and spectroscopy at extremely low temperatures and high magnetic fields Emphasis is given to major semiconductor systems and artificially structured materials such as GaAs InSb Hg1 xCdxTe and MBE grown structures based upon GaAs AlGaAs materials Both the spectroscopic novice and the expert will benefit from the descriptions and discussions of the methods principles and applications relevant to today s semiconductor structures Key Features Discusses the latest advances in spectroscopic techniques used to investigate bulk and artificially structured semiconductors Features detailed review articles which cover basic principles Highlights specific applications such as the use of laser spectroscopy for the characterization of GaAs quantum well structures **Optical Constants of Inorganic Glasses** Andrei M. Efimov,2020-01-29 This book is devoted to the problem of the frequency dispersion of optical constants of inorganic glasses It is the only source providing a comprehensive discussion of this topic on a unified physical and analytical basis Optical Constants of Inorganic Glasses presents thorough descriptions of the underlying physical phenomena analytical models for the optical constants dispersion and detailed information on the optical constants and related optical characteristics of glasses The broad scope of the book includes such topics as general relationships for the response of a solid to the effect of an electromagnetic field and specific features of optical spectrum formation for a glass and the resulting constants The text details methods for reconstructing the spectra of optical constants from raw experimental spectra of glasses and provides data on the spectra of optical constants in the IR and VUV ranges and on the IR band parameters for inorganic glasses It includes factors responsible for the behavior of the refractive index dispersion of glasses in the transparency range The reference fully details the opportunities provided by the recent version of dispersion analysis for glasses based on the specific analytical model for the complex dielectric constant Until now this information was only available in Russian journals A large quantity of never before published data on numerical values of optical constants in the medium and far IR and of IR band frequencies and intensities is given for a wide variety of inorganic glasses For vitreous silica data on the optical constants are also given for the broad wavelength range in the VUV Optical Constants of Inorganic Glasses provides the only comprehensive review of available dispersion formulas and methods for interpolating and extrapolating the refractive indices of glasses in the transparency range The volume is a valuable resource for researchers practitioners in the fields of glass technology **III-Nitride Semiconductor Optoelectronics** ,2017-01-05 III Nitride Semiconductor Optoelectronics covers the latest breakthrough research and exciting developments in the field of III nitride compound semiconductors It includes important topics on the fundamentals of materials growth characterization and optoelectronic device applications of III nitrides Bulk quantum well quantum dot and nanowire heterostructures are all thoroughly explored Contains the latest breakthrough research in III nitride optoelectronics Provides a comprehensive presentation that covers the fundamentals of materials growth and characterization and the design and performance characterization of state of the art optoelectronic devices Presents an in

depth discussion on III nitride bulk quantum well quantum dot and nanowire technologies **Nonlinear Optics in Semiconductors I** ,1998-10-22 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

Hydrogen in Semiconductors II ,1999-05-05 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Provides the most in depth coverage of hydrogen in silicon available in a single source Includes an extensive chapter on the neutralization of defects in III b1V semiconductors Combines both experimental and theoretical studies to form a comprehensive reference **Advances in Photovoltaics: Part 4** ,2015-06-25 Advances in Photovoltaics Part Four provides valuable information on the challenges faced during the transformation of our energy supply system to more efficient renewable energies The volume discusses the topic from a global perspective presenting the latest information on photovoltaics a cornerstone technology It covers all aspects of this important semiconductor technology reflecting on the tremendous and dynamic advances that have been made on this topic since 1975 when the first book on solar cells written by

Harold J Hovel of IBM was published as volume 11 in the now famous series on Semiconductors and Semimetals Readers will gain a behind the scenes look at the continuous and rapid scientific development that leads to the necessary price and cost reductions in global industrial mass production Written by leading internationally known experts on his topic Provides an in depth overview of the current status and perspectives of thin film PV technologies Discusses the challenges faced during the transformation of our energy supply system to more efficient renewable energies Delves deep into photovoltaics a cornerstone technolog 2D Materials ,2016-06-24 2D Materials contains the latest information on the current frontier of nanotechnology the thinnest form of materials to ever occur in nature A little over 10 years ago this was a completely unknown area not thought to exist However since then graphene has been isolated and acclaimed and a whole other class of atomically thin materials dominated by surface effects and showing completely unexpected and extraordinary properties has been created This book is ideal for a variety of readers including those seeking a high level overview or a very detailed and critical analysis No nanotechnologist can currently overlook this new class of materials Presents one of the first detailed books on this subject of nanotechnology Contains contributions from a great line up of authoritative contributors that bring together theory and experiments Ideal for a variety of readers including those seeking a high level overview or a very detailed and critical analysis **Advances in Photovoltaics: Part 1** ,2012-12-28 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field *Advances in Photovoltaics: Part 2* ,2013-10-17 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry This volume is the second of a set of seven on the topic of photovoltaics Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry **Nanostructured Systems** ,1992-04-08 This is the first available volume to consolidate prominent topics in the emerging field of nanostructured systems Recent technological advancements have led to a new era of nanostructure physics allowing for the

fabrication of nanostructures whose behavior is dominated by quantum interference effects This new capability has enthused the experimentalist and theorist alike Innumerable possibilities have now opened up for physical exploration and device technology on the nanoscale This book with contributions from five pioneering researchers will allow the expert and novice alike to explore a fascinating new field Provides a state of the art review of quantum scale artificially nanostructured electronic systemsIncludes contributions by world known experts in the fieldOpens the field to the non expert with a concise introductionFeatures discussions of Low dimensional condensed matter physicsProperties of nanostructured ultrasmall electronic systemsMesoscopic physics and quantum transportPhysics of 2D electronic systems **Advances in Photovoltaics: Part 1** Gerhard P. Willeke,Eicke R. Weber,2012-10-03 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field Nonlinear Optics in Semiconductors II ,1998-11-09 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Identification of Defects in Semiconductors ,1998-07-02 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors TheWillardson and BeerSeries as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at

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first comprehensive reviews combining recent breakthroughs in blue green semiconductor lasers based on II VI materials and fundamentally important issues about the development and extension of these lasers to commercial applications These lasers are on the cutting edge of technology and could revolutionize areas such as optical information storage and color displays in the next few years An important focus of this book is on the recent laboratory development of an entirely new class of diode lasers based on a different family of semiconductor materials which emit at much shorter wavelengths in the green and blue portion of the spectrum These new and exciting developments in optoelectronics which are still undergoing laboratory testing have the potential of providing a major increase in storage capacity over current CD technology Besides applications in high density digital optical storage other possible aplications for the compact blue green lasers will be in areas ranging from flat panel displays to multicolor printing to medical diagnostics Details practical issues of the growth of laser structures by molecular beam epitaxy by pioneers in the industry Explains how the barriers of doping and electrical contact were overcome by using wide bandgap II VI semiconductors Documents thirty years of research Basic Semiconductor Physics Chihiro Hamaguchi,2013-04-17 More than 50 years have passed since the invention of the transistor in De cember 1947 The study of semiconductors was initiated in the 1930s but we had to wait for 30 years till the 1960s to understand the physics of semi conductors When the transistor was invented it was still unclear whether germanium had a direct gap or indirect gap The author started to study semiconductor physics in 1960 and the physics was very difficult for a begin ner to understand The best textbook of semiconductors at that time was Electmns and Holes in Semiconductors by W Shockley but it required a detailed knowledge of solid state physics to understand the detail of the book In that period junction transistors and Si bipolar transistors were be ing produced on a commercial basis and industrialization of semiconductor technology was progressing very rapidly Later semiconductor devices were integrated and applied to computers successfully resulting in a remarkable demand for semiconductor memories in addition to processors in the late 1970s to 1980s Now we know that semiconductors play the most important role in information technology as the key devices and we cannot talk about the age of information technology without semiconductor devices On the other hand the physical properties of semiconductors such as the electrical and optical properties wcre investigated in detail in the 1950s lead ing to the understanding of the energy band structures

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