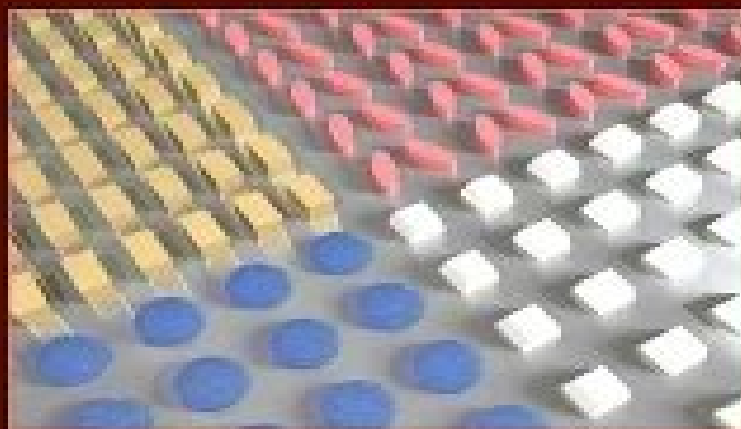


SEMICONDUCTORS AND SEMIMETALS

VOLUME 117

Semiconductor Metasurfaces Part 2

Edited By
Martin Hafermann and Sarah Walden



Semiconductors Semimetals Volume 3 Optical

Jicheng Xie



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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 is then 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 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

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Epitaxial Microstructures, 1994-09-15 Newly developed semiconductor microstructures can now guide light and electrons resulting in important consequences for state of the art electronic and photonic devices This volume introduces a new generation of epitaxial microstructures Special emphasis has been given to atomic control during growth and the interrelationship between the atomic arrangements and the properties of the structures Atomic level control of semiconductor microstructures Molecular beam epitaxy metal organic chemical vapor deposition Quantum wells and quantum wires Lasers photon IR detectors heterostructure transistors

Laser Annealing Processes in Semiconductor Technology Fuccio Cristiano, Antonino La Magna, 2021-04-21 Laser Annealing Processes in Semiconductor Technology Theory Modeling and Applications in Nanoelectronics synthesizes the scientific and technological advances of laser annealing processes for current and emerging nanotechnologies The book provides an overview of the laser matter interactions of materials and recent advances in modeling of laser related phenomena with the bulk of the book focusing on current and emerging beyond CMOS applications Reviewed applications include laser annealing of CMOS group IV semiconductors superconducting materials photonic materials 2D materials This comprehensive book is ideal for post graduate students new entrants and experienced researchers in academia research and development in materials science physics and engineering Introduces the fundamentals of laser materials and device fabrication methods including laser matter interactions and laser related phenomena Addresses advances in physical modeling and in predictive simulations of laser annealing processes such as atomistic modeling and TCAD simulations Reviews current and emerging applications of laser annealing processes such as CMOS technology and group IV semiconductors

High Speed Heterostructure Devices, 1994-07-06 Volume 41 includes an in depth review of the most important high speed switches made with heterojunction technology This volume is aimed at the graduate student or working researcher who needs a broad overview and an introduction to current literature The first complete review of InP based HFETs and complementary HFETs which promise very low power and high speed Offers a complete three chapter review of resonant tunneling Provides an emphasis on circuits as well as devices

Band Structure of Semiconductors I. M. Tsidilkovski, 2016-10-19 Band Structure of

Semiconductors provides a review of the theoretical and experimental methods of investigating band structure and an analysis of the results of the developments in this field The book presents the problems methods and applications in the study of band structure Topics on the computational methods of band structure band structures of important semiconducting materials behavior of an electron in a perturbed periodic field effective masses and g factors for the most commonly encountered band structures and the treatment of cyclotron resonance Shubnikov de Haas oscillations magnetophonon resonance and magneto optical phenomena are discussed Experimental physicists theoretical physicists students and research workers and engineers working in the field of semiconductor electronics will find this book a great source of vital information

Nonlinear Optical Materials and Devices for Applications in Information Technology A. Miller, K.R. Welford, B. Daino, 2013-04-17 Nonlinear Optical Materials and Devices for Applications in Information Technology takes the reader from fundamental interactions of laser light in materials to the latest developments of digital optical information processing The book emphasises nonlinear optical interactions in bulk and low dimensional semiconductors liquid crystals and optical fibres After establishing the basic laser material interactions in these materials it goes on to assess applications in soliton propagation integrated optics smart pixel arrays and digital optical computing

Semiconductor Physics Karlheinz Seeger, 2013-06-29 The first edition of Semiconductor Physics was published in 1973 by Springer Verlag Wien New York as a paperback in the Springer Study Edition In 1977 a Russian translation by Professor Yu K Pozhela and coworkers at Vilnius USSR was published by Izdatelstvo MIR Moscow Since then new ideas have been developed in the field of semiconductors such as electron hole droplets dangling bond saturation in amorphous silicon by hydrogen or the determination of the fine structure constant from surface quantization in inversion layers New techniques such as molecular beam epitaxy which has made the realization of the Esaki superlattice possible deep level transient spectroscopy and refined a c Hall techniques have evolved Now that the Viennese edition is about to go out of print Springer Verlag Berlin Heidelberg New York is giving me the opportunity to include these new subjects in a monograph to appear in the Solid State Sciences series Again it has been the intention to cover the field of semiconductor physics comprehensively although some chapters such as diffusion of hot carriers and their galvanomagnetic phenomena as well as superconducting degenerate semiconductors and the appendices had to go for commercial reasons The emphasis is more on physics than on device aspects

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 *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 systems Includes contributions by world known experts in the field Opens the field to the non expert with a concise introduction Features discussions of Low dimensional condensed matter physics Properties of nanostructured ultrasmall electronic systems Mesoscopic physics and quantum transport Physics 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 **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 [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 technology

Fundamentals of Semiconductors Peter YU, Manuel Cardona, 2013-03-09 We have so far received many comments and feedback on our book from all quarters including students instructors and of course many friends We are most grateful to them not only for their compliments but also for their valuable criticism We also received many requests for an instructor manual and solutions to the problems at the end of each chapter We realize that semiconductor physics has continued to evolve since the publication of this book and there is a need to continue to update its content To keep our readers informed of the latest developments we have created a Web Page for this book Its address as of the writing of this preface is <http://pauline.berkeley.edu/textbook> At this point this Web Page displays the following information 1 Content outline and an excerpt of the book 2 Reviews of the book in various magazines and journals 3 Errata to both first and second printing most have been corrected in the second edition as of this date 4 Solutions to selected problems 5 Additional supplementary problems

Basic Semiconductor Physics Chihiro Hamaguchi, 2023-04-29 This textbook presents a detailed description of basic semiconductor physics covering a wide range of important phenomena in semiconductors from simple to advanced It introduces and explains four different methods of energy band calculations in the full band region and covers fundamental topics such as the effective mass approximation and electron motion in a periodic potential the Boltzmann transport equation and deformation potentials used for the analysis of transport properties The text also examines experimental and theoretical analyses of cyclotron resonance in detail and reviews essential optical and transport properties while covering optical transitions electron phonon interaction and electron mobility It presents numerical calculations of scattering rate relaxation time and mobility for typical semiconductors with bulk quantum well and HEMT structures including wideband gap materials such as GaN and SiC in addition to IV and III V semiconductors The updated fourth edition includes coverage of new topics such as surface modulated superlattices Wannier Stark effect Bloch oscillation wide band gap semiconductors and photonic crystals Featuring full color diagrams calculated with updated physical parameters as well as chapter end problems and solutions this tried and tested textbook on the basics of semiconductors physics is the cornerstone to any graduate or upper level undergraduate course on the subject

Principles Of Semiconductor Laser Diodes And Amplifiers: Analysis And Transmission Line Laser Modeling Hooshang Ghafouri-shiraz, 2003-12-15 Optical communications technology is growing increasingly in importance with a rapid pace of development Innovative optical devices have emerged from the integration of semiconductor laser diodes amplifiers and

filters with optical waveguide technology This well researched volume traces the evolution of semiconductor laser amplifiers SLAs from these technologies Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems This book will provide engineering and science students with a basic understanding of laser diode and optical amplification through the analysis of the performance characteristics of these devices both in theory and application Practising device engineers wishing to consolidate their knowledge in lightwave technology will also find this book an invaluable reference a *Ultrafast Physical Processes in Semiconductors*, 2000-10-06 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 producing 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

Quantum Theory of Materials Efthimios Kaxiras, John D. Joannopoulos, 2019-06-06 This accessible new text introduces the theoretical concepts and tools essential for graduate level courses on the physics of materials in condensed matter physics physical chemistry materials science and engineering and chemical engineering Topics covered range from fundamentals such as crystal periodicity and symmetry and derivation of single particle equations to modern additions including graphene two dimensional solids carbon nanotubes topological states and Hall physics Advanced topics such as phonon interactions with phonons photons and electrons and magnetism are presented in an accessible way and a set of appendices reviewing crucial fundamental physics and mathematical tools makes this text suitable for students from a range of backgrounds Students will benefit from the emphasis on translating theory into practice with worked examples explaining experimental observations applications illustrating how theoretical concepts can be applied to real research problems and 242 informative full color illustrations End of chapter exercises are included for homework and self study with solutions and lecture slides for instructors available online [Silicon-Germanium Strained Layers and Heterostructures](#) M.

Willander, Suresh C. Jain, 2003-10-02 The study of Silicone Germanium strained layers has broad implications for material scientists and engineers in particular those working on the design and modelling of semi conductor devices Since the

publication of the original volume in 1994 there has been a steady flow of new ideas new understanding new Silicon Germanium SiGe structures and new devices with enhanced performance Written for both students and senior researchers the 2nd edition of Silicon Germanium Strained Layers and Heterostructures provides an essential up date of this important topic describing in particular the recent developments in technology and modelling Fully revised and updated 2nd edition incorporating important recent breakthroughs and a complete literature review The extensive bibliography of over 400 papers provides a comprehensive and coherent overview of the subject Appropriate for students and senior researchers

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