



Optical Properties of Semiconductors

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Optical Properties Of Semiconductors

David L. Greenaway, Günther Harbeke



Optical Properties Of Semiconductors:

Optical Properties of Semiconductor Nanostructures Marcin L. Sadowski, Marek Potemski, Marian Grynberg, 2012-12-06
Optical methods for investigating semiconductors and the theoretical description of optical processes have always been an important part of semiconductor physics. Only the emphasis placed on different materials changes with time. Here a large number of papers are devoted to quantum dots presenting the theory, spectroscopic investigation and methods of producing such structures. Another major part of the book reflects the growing interest in diluted semiconductors and II-V nanosystems in general. There are also discussions of the fascinating field of photonic crystals. Classical low dimensional systems such as GaAs, GaAlAs quantum wells and heterostructures still make up a significant part of the results presented and they also serve as model systems for new phenomena. New materials are being sought and new experimental techniques are coming on stream. In particular the combination of different spectroscopic modalities.

Optical Properties of Crystalline and Amorphous Semiconductors Sadao Adachi, 2012-12-06
Optical Properties of Crystalline and Amorphous Semiconductors: Materials and Fundamental Principles presents an introduction to the fundamental optical properties of semiconductors. This book presents tutorial articles in the categories of materials and fundamental principles. Chapter 1: optical properties in the reststrahlen region; Chapter 2: those in the interband transition region; Chapters 3 and 4: and at or below the fundamental absorption edge; Chapter 5: *Optical Properties of Crystalline and Amorphous Semiconductors: Materials and Fundamental Principles* is presented in a form which could serve to teach the underlying concepts of semiconductor optical properties and their implementation. This book is an invaluable resource for device engineers, solid state physicists, material scientists and students specializing in the fields of semiconductor physics and device engineering.

Optical Properties of Semiconductors G. Martinez, 1992-11-30
It is widely recognized that an understanding of the optical properties of matter will give a great deal of important information relevant to the fundamental physical properties. This is especially true in semiconductor physics for which, due to the intrinsic low screening of these materials, the optical response is quite rich. Their spectra reflect indeed as well electronic as spin or phonon transitions. This is also in the semiconductor field that artificial structures have been recently developed showing for the first time specific physical properties related to the low dimensionality of the electronic and vibronic properties. With this respect the quantum and fractional quantum Hall effects are among the most well known aspects. The associated reduced screening is also a clear manifestation of these aspects and as such favors new optical properties or at least significantly enhances some of them. For all these reasons it appeared necessary to try to review in a global way what the optical investigation has brought today about the understanding of the physics of semiconductors. This volume collects the papers presented at the NATO Advanced Study Institute on Optical Properties of Semiconductors held at the Ettore Majorana Centre, Erice, Sicily, on March 9th to 20th 1992. This school brought together 70 scientists active in research related to optical properties of semiconductors. There were 12 lecturers who provided the main

contributions **Semiconductor Optics 1** Heinz Kalt, Claus F. Klingshirn, 2019-09-20 This revised and updated edition of the well received book by C Klingshirn provides an introduction to and an overview of all aspects of semiconductor optics from IR to visible and UV It has been split into two volumes and rearranged to offer a clearer structure of the course content Inserts on important experimental techniques as well as sections on topical research have been added to support research oriented teaching and learning Volume 1 provides an introduction to the linear optical properties of semiconductors The mathematical treatment has been kept as elementary as possible to allow an intuitive approach to the understanding of results of semiconductor spectroscopy Building on the phenomenological model of the Lorentz oscillator the book describes the interaction of light with fundamental optical excitations in semiconductors phonons free carriers excitons It also offers a broad review of seminal research results augmented by concise descriptions of the relevant experimental techniques e g Fourier transform IR spectroscopy ellipsometry modulation spectroscopy and spatially resolved methods to name a few Further it picks up on hot topics in current research like quantum structures mono layer semiconductors or Perovskites The experimental aspects of semiconductor optics are complemented by an in depth discussion of group theory in solid state optics Covering subjects ranging from physics to materials science and optoelectronics this book provides a lively and comprehensive introduction to semiconductor optics With over 120 problems more than 480 figures abstracts to each chapter as well as boxed inserts and a detailed index it is intended for use in graduate courses in physics and neighboring sciences like material science and electrical engineering It is also a valuable reference resource for doctoral and advanced researchers Electronic Structure and Optical Properties of Semiconductors Marvin L. Cohen, James R.

Chelikowsky, 2012-12-06 **Electrical and Optical Properties of Semiconductors** D. V. Skobel'tsyn, 2012-12-06

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 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 Electronic and Optical Properties of Semiconductors Lok C. Lew Yan Voon, 1997-08 This study is a theoretical investigation of the electronic and optical properties of intrinsic semiconductors using the orthogonal empirical tight binding model An analysis of the bulk properties of semiconductors with the zincblende diamond and rocksalt structures has been carried out We have extended the work of others to higher order in the interaction integrals and derived new parameter sets for certain semiconductors which better fit the experimental data over the Brillouin zone The Hamiltonian of the heterostructures is built up layer by layer from the parameters of the bulk constituents The second part of this work examines a number of applications of the theory We present a new microscopic derivation of the intervalley deformation potentials within the tight binding representation and computes a number of conduction band deformation potentials of bulk semiconductors We have also studied the electronic states in heterostructures and have shown theoretically the possibility of having barrier localization of above barrier states in a multivalley heterostructure using a multiband calculation Another result is the proposal for a new type II lasing mechanism in short period GaAs AlAs superlattices As for our work on the optical properties a new formalism based on the generalized Feynman Hellmann theorem for computing interband optical matrix elements has been obtained and has been used to compute the linear and second order nonlinear optical properties of a number of bulk semiconductors and semiconductor heterostructures In agreement with the one band effective mass calculations of other groups our more elaborate calculations show that the intersubband oscillator strengths of quantum wells can be greatly enhanced over the bulk interband values **Optical Properties and Band Structure of Semiconductors** David L. Greenaway, Günther Harbeke, 2015-12-04 Optical Properties and Band Structure of Semiconductors Volume 1 presents the experimental studies of the fundamental energy band structure of semiconductors and insulators This book provides detailed information of the available measurement methods and results for a large number of both cubic and non cubic materials Comprised of 10 chapters this volume begins with an overview of the fundamental band structure of semiconductors This text then discusses the instrumentation and methods available for the measurement of absorption coefficient absolute reflection coefficient and other optical properties of insulators and semiconductors primarily in their fundamental region Other chapters consider the interband transitions in the one electron approximation The final chapter deals with the equivalence of the transverse and longitudinal dielectric constants in the frequency range under consideration This book is a valuable resource for solid state physicists Readers and researchers with interest in the electron and optical properties of semiconductors and insulators will also find this book useful Optical Properties of III-V Semiconductors Heinz Kalt, 2012-12-06 Optical and electronic properties of semiconductors are strongly influenced by the different possibilities of carriers to be distributed among the various extrema of the band structure or the transfer between them The monograph Optical Properties of III V Semiconductors is concerned with the III V bulk and low dimensional semiconductors with the emphasis on the implications of multi valley bandstructures

on the physical mechanisms essential for opto electronic devices The optical response of such semiconductor materials is determined by many body effects like screening gap narrowing Fermi edge singularity electron hole plasma and liquid formation The discussion of the latter features is presented self consistently with the dynamics of excitons and carriers resulting from intervalley coupling *Semiconductor Optics* Claus F. Klingshirn,2004-11-25 New chapters add coverage of current topics such as cavity polaritons photonic structures bulk semiconductors and structures of reduced dimensionality The mathematics is kept as elementary as possible sufficient for an intuitive understanding of the experimental results and techniques treated **Quantum Theory Of The Optical And Electronic Properties Of Semiconductors** Hartmut Haug,Stephan W Koch,1990-04-01 The current technological revolution in the development of computing devices has created a demand for a textbook on the quantum theory of the electronic and optical properties of semiconductors and semiconductor devices This book successfully fulfills this need Based on lectures given by the authors it is a comprehensive introduction for researchers or graduate level students to the subject Certain sections can also serve as a graduate level textbook for use in solid state physics courses or for more specialized courses The final chapters establish a direct link to current research in semiconductor physics **Radiative Properties of Semiconductors** N. M. Ravindra,Sita Rajyalaxmi Marthi,Asahel Banobre,2017-08-21 Optical properties particularly in the infrared range of wavelengths continue to be of enormous interest to both material scientists and device engineers The need for the development of standards for data of optical properties in the infrared range of wavelengths is very timely considering the on going transition of nano technology from fundamental R D to manufacturing Radiative properties play a critical role in the processing process control and manufacturing of semiconductor materials devices circuits and systems The design and implementation of real time process control methods in manufacturing requires the knowledge of the radiative properties of materials Sensors and imagers operate on the basis of the radiative properties of materials This book reviews the optical properties of various semiconductors in the infrared range of wavelengths Theoretical and experimental studies of the radiative properties of semiconductors are presented Previous studies potential applications and future developments are outlined In Chapter 1 an introduction to the radiative properties is presented Examples of instrumentation for measurements of the radiative properties is described in Chapter 2 In Chapters 3 11 case studies of the radiative properties of several semiconductors are elucidated The modeling and applications of these properties are explained in Chapters 12 and 13 respectively In Chapter 14 examples of the global infrastructure for these measurements are illustrated Optical Properties of Semiconductor Quantum Dots Ulrike Woggon,1997 This book presents an overview of the current understanding of the physics of zero dimensional semiconductors It concentrates mainly on quantum dots of wide gap semiconductors but touches also on zero dimensional systems based on silicon and III V materials After providing the reader with a theoretical background the author illustrates the specific properties of three dimensionally confined semiconductors such as the size dependence of energy states optical transitions and dephasing

mechanisms with the results from numerous experiments in linear and nonlinear spectroscopy Technological concepts of the growth concepts and the potential of this new class of semiconductor materials for electro optic and nonlinear optical devices are also discussed Semiconductor Optics Claus F. Klingshirn, 2012-07-06 The updated and enlarged new edition of this book provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV It includes coverage of linear and nonlinear optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory The mathematics is kept as elementary as possible The subjects covered extend from physics to materials science and optoelectronics New or updated chapters add coverage of current topics while the chapters on bulk materials have been revised and updated **Optical Nonlinearities and Instabilities in Semiconductors** Hartmut Haug, 2012-12-02 Optical Nonlinearities and Instabilities in Semiconductors deals with various aspects of nonlinear optical phenomena and related optical instabilities in semiconductors Measurements and explanations of the optical nonlinearities of various semiconductor materials and structures are presented along with optical bistability and diode laser thresholds self oscillations and chaos This text consists of 17 chapters and begins with an introductory chapter to the historical background of investigations of the resonance enhanced nonlinear optical properties of semiconductors and their manifestations in optical instabilities The discussion then turns to the experimentally observed optical nonlinearities in homogeneous semiconductors and the microscopic theory of the optical band edge nonlinearities This book considers the studies of the spectral region close to the band gap meant to exploit the resonance enhancement of the nonlinear optical behavior The remaining chapters focus on nonlinear optical properties of semiconductor quantum wells dense nonequilibrium excitations in gallium arsenide optical decay and spatial relaxation and optical bistability in semiconductor laser amplifiers A chapter that describes instabilities in semiconductor lasers concludes the book This book is intended for research students and active research workers who are interested in the basic physics or in the device applications of optical nonlinearities and instabilities in semiconductors **Optical Properties of Semiconductor Nanocrystals** S. V. Gaponenko, 1998-10-28 Examines the optical properties of low dimensional semiconductor structures a hot research area for graduate students and researchers Optical Properties of Semi-conductors Trevor Simpson Moss, 1959 Optical Properties and Band Structure of Semiconductors David L. Greenaway, 1970 **Optical Processes in Semiconductors** Jacques I. Pankove, 1975-01-01 Based on a series of lectures at Berkeley 1968 1969 this is the first book to deal comprehensively with all of the phenomena involving light in semiconductors The author has combined for the graduate student and researcher a great variety of source material journal research and many years of experimental research adding new insights published for the first time in this book Coverage includes energy states in semiconductors and their perturbation by external parameters absorption relationships between optical constants spectroscopy radiative transitions nonradiative recombination processes in pn junctions semiconductor lasers interactions involving coherent radiation

photoelectric emission photovoltaic effects polarization effects photochemical effects effect of traps on luminescence and reflective modulation The author has presented the subject in a manner which couples readily to physical intuition He introduces new techniques and concepts including nonradiative recombination effects of doping on optical properties Franz Keldysh effect in absorption and emission reflectance modulation and many others Dr Pankove emphasizes the underlying principle that can be applied to the analysis and design of a wide variety of functional devices and systems Many valuable references illustrative problems and tables are also provided here

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