



Jacques I. Pankove

**OPTICAL
PROCESSES IN
SEMICONDUCTORS**

Optical Processes In Semiconductors

Ana Maria De Paula

Optical Processes In Semiconductors:

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.

Optical Processes in Semiconductors Jacques I. Pankove, 1975 This comprehensive textbook and reference covers all phenomena involving light in semiconductors, emphasizing modern applications in semiconductor lasers, electroluminescence, photodetectors, photoconductors, photoemitters, polarization effects, absorption spectroscopy, radiative transfers and reflectance modulations. With numerous problems, 339 illustrations.

Theory of Optical Processes in Semiconductors Prasanta Kumar Basu, P. K. Basu, 2003 Semiconductor optoelectronic devices are at the heart of all information generation and processing systems and are likely to be essential components of future optical computers. With more emphasis on optoelectronics and photonics in graduate programmes in physics and engineering, there is a need for a text providing a basic understanding of the important physical phenomena involved. Such a training is necessary for the design, optimization and search for new materials, devices and application areas. This book provides a simple quantum mechanical theory of important optical processes, i.e. band-to-band, intersubband and excitonic absorption and recombination in bulk, quantum wells, wires, dots, superlattices and strained layers, including electro-optic effects. The classical theory of absorption, quantization of radiation and band picture based on $k \cdot p$ perturbation has been included to provide the necessary background. Prerequisites for the book are a knowledge of quantum mechanics and solid state theory. Problems have been set at the end of each chapter, some of which may guide the reader to study processes not covered in the book. The application areas of the phenomena are also indicated.

Theory of Optical Processes in Semiconductors P. K. Basu, 2003 **Fundamental Optical Processes in Semiconductors** Frank Jahnke, 2012 **Fundamental Optical Processes in Semiconductors** Frank Jahnke, 2012 *Electronic and Optical Processes in Semiconductors* Sajal K. Paul, Prasanta Kumar Basu, Professor, Institute of Radio Physics and Electronics

Prasanta Kumar Basu,2011-07 The dominance of electronics in every steps of present day human civilization is the blessing of knowledge on properties both electronic and optical of bulk semiconductors SCs and their microstructures The effective use of SCs and their microstructures for various applications depends on their detailed electronic and optical properties This book discusses the bandgap of semiconductors as a function of both temperature and carrier density The physics of MIS diodes is introduced and the variation of capacitance with voltage and carrier density is discussed The methods of calculating the subband energies and wave functions in quantum wells QWs and superlattices SLs are then outlined The concepts of strained layer epitaxy critical thickness and the band structures are introduced taking Si Si Ge QWs as an example A model calculation of mobility for alloy disorder scattering and different phonon scattering is carried out for Si Si Ge QW A brief description of the absorption processes in indirect gap bulk materials and QWs is finally given It is believed that this book will be useful for undergraduate and postgraduate students researchers and electronic device designers

Optical Processes In Microcavities Richard K Chang,A J Campillo,1996-04-12 The dielectric microstructures act as ultrahigh Q factors optical cavities which modify the spontaneous emission rates and alter the spatial distributions of the input and output radiation The editors have selected leading scientists who have made seminal contributions in different aspects of optical processes in microcavities Every attempt has been made to unify the underlying physics pertaining to microcavities of various shapes This book begins with a chapter on the role of microcavity modes with additional chapters on how these microcavity modes affect the spontaneous and stimulated emission rates enhance nonlinear optical processes used in cavity QED and chemical physics experiments aid in single molecule detection influence the design of microdisk semiconductor lasers and how deformed cavities can be treated with classical chaos theory

Coherent Nonlinear Optical Processes in Semiconductors Jeremy J. Baumberg,1992 Modeling the Optical Processes in Semiconductor Lasers Andreas Witzig,2002

Picosecond Dynamic Nonlinear Optical Processes in Semiconductors Y. T. Chow,University of Heriot-Watt,1988

Quantum Processes in Semiconductors B. K. Ridley,2013-08-08 This book sets out the fundamental quantum processes that are important in the physics and technology of semiconductors The fifth edition includes three new chapters that expand the coverage of semiconductor physics relevant to its accompanying technology

Alaska Meeting on Fundamental Optical Processes in Semiconductors ,2002 With support from AFOSR ONR and NSF through CUOS the Alaska Meeting on Fundamental Optical Processes in Semiconductors AMFOPS was held in Girdwood Alaska Aug 5 10 2001 The meeting was highly successful many of the attendees have informed me that this was the best conference they have attended in years The goal of the conference was to bring together the leading international groups working in semiconductor optics in a workshop format to present the most recent exciting results and to discuss the future directions of the field A major emphasis was place on having a strong US presence since most of the significant conferences in the field have been held in Europe or Asia in recent years and almost all the active U S groups were represented

Second Order Nonlinear Optical Processes in

Semiconductors Michael Muk Choy,Stanford University. Microwave Laboratory,1976 A Study of Nonlinear Optical Processes in Semiconductors Using a CO₂ Laser Andrew Edward Smith,1993 Coherent Optical Interactions in Semiconductors R.T. Phillips,2013-11-13 The NATO Advanced Research Workshop on Coherent Optical Processes in Semiconductors was held in Cambridge England on August 11 14 1993 The idea of holding this Workshop grew from the recent upsurge in activity on coherent transient effects in semiconductors The development of this field reflects advances in both light sources and the quality of semiconductor structures such that tunable optical pulses are now routinely available whose duration is shorter than the dephasing time for excitonic states in quantum wells It was therefore no surprise to the organisers that as the programme developed there emerged a heavy emphasis on time resolved four wave mixing particularly in quantum wells Nevertheless other issues concerned with coherent effects ensured that several papers on related problems contributed some variety The topics discussed at the workshop centred on what is a rather new field of study and benefited enormously by having participants representing many of the principal groups working in this area Several themes emerged through the invited contributions at the Workshop One important development has been the careful examination of the two level model of excitonic effects a model which has been remarkably successful despite the expected complexities arising from the semiconductor band structure Indeed modest extensions to the two level model have been able to offer a useful account for some of the complicated polarisation dependence of four wave mixing signals from GaAs quantum wells This work clearly is leading to an improved understanding of excitons in confined systems

Proceedings for the Alaska Meeting on Fundamental Optical Processes in Semiconductors (AMFOPS '01) Held in Girdwood, Alaska on August 5-10, 2001

,2002 With support from AFOSR ONR and NSF through CUOS the Alaska Meeting on Fundamental Optical Processes in Semiconductors AMFOPS was held in Girdwood Alaska Aug 5 10 2001 The meeting was highly successful many of the attendees have informed me that this was the best conference they have attended in years The goal of the conference was to bring together the leading international groups working in semiconductor optics in a workshop format to present the most recent exciting results and to discuss the future directions of the field A major emphasis was place on having a strong US presence since most of the significant conferences in the field have been held in Europe or Asia in recent years and almost all the active U S groups were represented

Tunable All-optical Delay Via Nonlinear Optical Processes in Semiconductor Quantum Wells Susanta Kumar Sakar,2006 **Porous Semiconductors** Vladimir Kochergin,Helmut

Föll,2009-08-31 Porous Semiconductors Optical Properties and Applications provides an examination of porous semiconductor materials Beginning with a description of the basic electrochemistry of porous semiconductors and the different kinds of porous semiconductor materials that can be fabricated the book moves on to describe the fabrication processes used in the production of porous semiconductor optical components Concluding the text a number of optical components based on porous semiconductor materials are discussed in depth Porous Semiconductors Optical Properties and

Applications provides a thorough grounding in the design fabrication and theory behind the optical applications of porous semiconductor materials for graduate and undergraduate students interested in optics photonics MEMS and material science. The book is also a valuable reference for scientists researchers and engineers in the field of optics and materials science.

Optical Spectroscopy of Ultrafast Processes in Semiconductors Ana Maria De Paula, 1991

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