

Graduate Texts in Physics

Claus F. Klingshirn

Semiconductor Optics

Fourth Edition

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Claus F. Klingshirn



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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 *Semiconductor Optics* Heinz Kalt, Claus Klingshirn, 2019

Semiconductor Optics 2 Heinz Kalt, Claus F. Klingshirn, 2024-03-16 This book provides an introduction to and an overview of the multifaceted area of dynamics and nonlinearities related to optical excitations in semiconductors It is a revised and significantly extended edition of the well established book by C Klingshirn split into two volumes and restructured to make it more concise Inserts on important experimental techniques reference to topical research and novel materials as well as consideration of photonic applications support research oriented teaching and learning This book reviews nonlinear optical properties and many body phenomena evoked by high densities of quasi particles in semiconductors Coherent dynamics and relaxation of optical excitations carriers excitons electron hole plasmas etc as well as

condensation phenomena are elucidated in these materials. A broad overview is provided of seminal research results augmented by detailed descriptions of the relevant experimental techniques e.g. ultrafast spectroscopy, four wave mixing and the Hanbury Brown and Twiss experiment. Offering a comprehensive introduction to hot topics in current research: polariton condensates, valley coherence and single photons to name a few, it also discusses applications of the described physical concepts in topical areas such as quantum information, photonics, spintronics and optoelectronics. Covering subjects ranging from physics to materials science and optoelectronics, the book provides a lively and comprehensive introduction to semiconductor optics beyond the linear regime. With many problems, chapter introductions, schematic depictions of physical phenomena as well as boxed inserts and a detailed index, it is suitable for use in graduate courses in physics and neighboring sciences like material science and optical communication. It is also a valuable reference resource for doctoral and advanced researchers.

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Optical Processes in Semiconductors Jacques I. Pankove, 2012-12-19 Comprehensive text and reference covers all phenomena involving light in semiconductors, emphasizing modern applications in semiconductor lasers, electroluminescence, photodetectors, photoconductors.

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