

SEMICONDUCTOR
HETEROSTRUCTURES

ALFEROV

ADVANCES IN
SCIENCE AND TECHNOLOGY
IN THE USSR

Semiconductor Heterostructures Physical Processes And Applications

Mauro Nisoli



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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 have 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.

Semiconductor Interfaces, Microstructures and Devices Zhe Chuan Feng, 1993-01-01 A semiconductor interface is the contact between the semiconductor itself and a metal. The interface is a site of change and it is imperative to ensure that the semiconducting material is sealed at this point to maintain its reliability. This book examines various aspects of interfaces, showing how they can affect microstructures and devices such as infrared photodetectors as used in night sights and blue diode lasers. It presents various techniques for examining different types of semiconductor material and suggests future potential commercial applications for different semiconductor devices. Written by experts in their fields and focusing on metallic semiconductors, Cadmium Telluride and related compounds, this comprehensive overview of recent developments is an essential reference for those working in the semiconductor industry and provides a concise and comprehensive introduction to those new to the field.

Semiconductor Heterostructures Zh. I. Alferov, 1989 *Semiconductor Physics and Applications* M. Balkanski, Richard Fisher Wallis, 2000-08-31 This textbook covers the basic physics of semiconductors and their applications to practical devices, with emphasis on the basic physical principles upon which these devices operate. Extensive use of figures is made to enhance the clarity of the presentation and to establish contact with the experimental side of the topic. Graduate students and lecturers in semiconductor physics, condensed matter physics, electromagnetic theory and quantum mechanics will find this a useful textbook and reference work.

Semiconductor photonics. Principles and Applications Mauro Nisoli, 2016-12-21 The aim of this book is to introduce and explain important physical processes at the heart of the optical properties of semiconductor devices such as light emitting diodes (LEDs) and semiconductor lasers. It is suitable for a half semester or a one semester course in Photonics or Optoelectronics at the graduate level in engineering.

physics electrical engineering or material science It offers an advanced analysis of the photo physics of semiconductors trying to avoid the use of exceedingly complex formalisms Particular attention was devoted to offer a clear physical interpretation of all the obtained results Various worked examples are added throughout all the chapters to illustrate the application of the various formulas discussed in the text The book covers fundamental aspects of solid state physics relevant for the calculation and analysis of semiconductor band structure and of quantum mechanics of electron photon interaction The photo physics of bulk and quantum well semiconductors are discussed in detail The final five chapters analyse the physics and properties of important photonic devices light emitting diodes LEDs and lasers including Distributed Feedback DFB lasers Vertical Cavity Surface Emitting Lasers VCSELs and Quantum Cascade Lasers The general philosophy adopted in these chapters is the following the fundamental physical processes are investigated rather than the technological characteristics of the devices *Physics and Technology of Semiconductor Thin Film-Based Active Elements and Devices* Halyna Khlyap, 2009 This well organized reference book covers the newest and most important practically applicable results in thin film based semiconductor A2B6 A4B6 and chalcogenide sensors heterojunction based active elements and other devices This book is written for **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 *Soviet Physics* , 1991

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