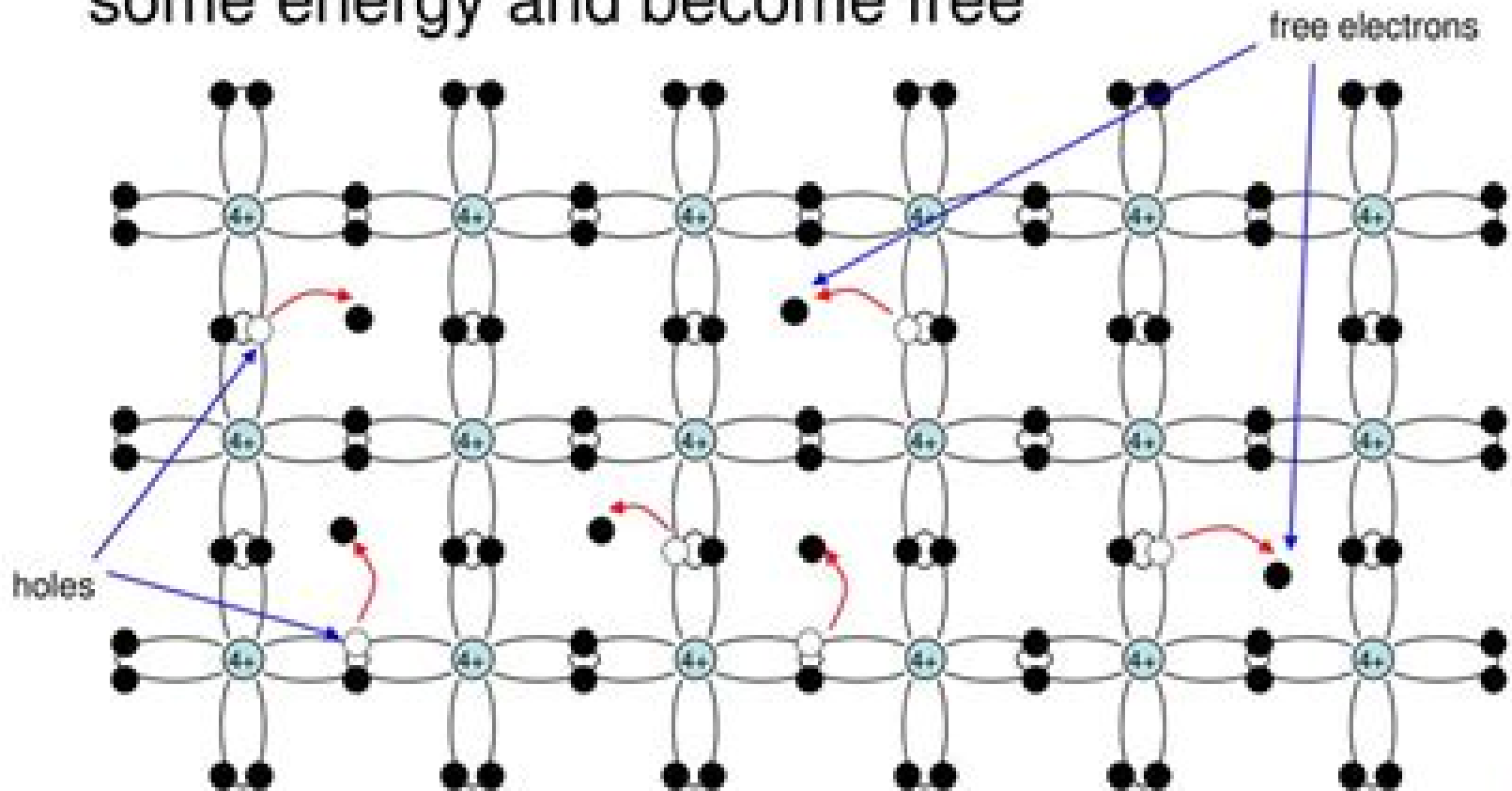


# Electron Transport in Semiconductor

- Some of the electrons in valance band may gain some energy and become free





# Electron Transport Phenomena In Semiconductors

**Dimitrije A. Tjapkin**





## **Electron Transport Phenomena In Semiconductors:**

Electron Transport Phenomena in Semiconductors B. M. Askerov, 1994 This book contains the first systematic and detailed exposition of the linear theory of the stationary electron transport phenomena in semiconductors Arbitrary isotropic and anisotropic nonparabolic bands as well as p Ge type bands are considered Phonon drag effect are taken account of in an arbitrary nonquantizing magnetic field Scattering theory is discussed in detail with account taken of the Bloch wave functions effect Transport phenomena in the quantizing magnetic field are studied as well as the size effects in thin films Band structures of the semiconductors and semiconductor compounds of interest are also considered The main part of the book deals with the three important problems charge carrier statistics in a semiconductor classical and quantum theory of the electron transport phenomena All the theoretical results considered as well as the validity conditions are presented in the form which may be directly used to interpret experimental data

**Balance Equation Approach To Electron Transport In Semiconductors** Xiaolin Lei, 2008-08-21 This book presents a systematic comprehensive and up to date description of the physical basis of the balance equation transport theory and its applications in bulk and low dimensional semiconductors The different aspects of the balance equation method originally proposed by C S Ting and the author of the present book were reviewed in the volume entitled Physics of Hot Electron Transport in Semiconductors edited by C S Ting World Scientific 1992 Since then this method has been extensively developed and applied to various new fields such as transport in nonparabolic systems spatially nonuniform systems and semiconductor devices miniband conduction of superlattices hot electron magnetotransport effects of impact ionization in transport microwave induced magnetoresistance oscillation radiation driven transport and electron cooling etc Due to its simplicity and effectiveness the balance equation approach has become a useful tool to tackle the many transport phenomena in semiconductors and provides a reliable basis for developing theories modeling devices and explaining experiments The book may be used as a textbook by graduate students It will also benefit researchers in the field by helping them grasp the basic principles and techniques of the method without having to spend a lot of time digging out the information from widespread literature covering a period of 30 years

**Semiconductor Optics and Transport Phenomena** Wilfried Schäfer, Martin Wegener, 2013-06-29 Whenever a physicist visits the physics faculty in Dortmund he she is bound to hear the success story of the so called integrated course a four semester introduction to physics These lectures are given by two professors simultaneously one experimentalist and one theorist After having asked the common question How many professors have killed each other the visitor usually realizes that this is an excellent way of presenting a coherent introduction to both experimental and theoretical physics We decided to try this concept in an advanced course on semiconductor physics At that point the typical student has already had an introductory course in solid state physics and solid state theory The aim of the lectures was to repeat some of the most important well known classics of semiconductor optics and transport and eventually guide the students to topics of current interest in research When



preparing the lectures we did not find a textbook addressing all these aspects experiment and theory in semiconductor optics and transport which made us write this book This book presents the phenomenology and a simple intuitive understanding of many effects and in addition attempts to explain the underlying physics on a consistent theoretical footing Calculations are presented such that a student should be able to follow them with a pencil and a piece of paper

**Electron Transport in Compound Semiconductors** B.R. Nag, 2012-12-06 Discovery of new transport phenomena and invention of electron devices through exploitation of these phenomena have caused a great deal of interest in the properties of compound semiconductors in recent years Extensive research has been devoted to the accumulation of experimental results particularly about the artificially synthesised compounds Significant advances have also been made in the improvement of the related theory so that the values of the various transport coefficients may be calculated with sufficient accuracy by taking into account all the complexities of energy band structure and electron scattering mechanisms Knowledge about these developments may however be gathered only from original research contributions scattered in scientific journals and conference proceedings Review articles have been published from time to time but they deal with one particular material or a particular phenomenon and are written at an advanced level Available text books on semiconductor physics do not cover the subject in any detail since many of them were written decades ago There is therefore a definite need for a book giving a comprehensive account of electron transport in compound semiconductors and covering the introductory material as well as the current work The present book is an attempt to fill this gap in the literature The first chapter briefly reviews the history of the development of compound semiconductors and their applications It is also an introduction to the contents of the book

**Surface Electronic Transport Phenomena in Semiconductors** V. N. Dobrovolsky, V. G. Litovchenko, 1991-09-26 Layered metal insulator semiconductor microstructures have become an important research area in semiconductor microelectronics New devices utilize phenomena occurring at or near the semiconductor surface directly This monograph provides a survey of the diverse experimental and theoretical results for electron and hole transport in surface and subsurface regions of semiconductors with an emphasis on the mechanisms involved and special measurement procedures necessary for example in Hall current measurements This English edition has been substantially revised and updated from the original Russian edition

**Ultrafast Phenomena in Semiconductors** Kong-Thon Tsen, 2012-12-06 There are many books in the market devoted to the review of certain fields This book is different from those in that authors not only provide reviews of the fields but also present their own important contributions to the fields in a tutorial way As a result researchers who are already in the field of ultrafast dynamics in semiconductors and its device applications as well as researchers and graduate students just entering the field will benefit from it This book is made up of recent new developments in the field of ultrafast dynamics in semiconductors It consists of nine chapters Chapter 1 reviews a microscopic many body theory which allows one to compute the linear and non linear optical properties of semiconductor superlattices in the presence of homogeneous electric



fields Chapter 2 deals with ultrafast intersubband dynamics in quantum wells and device structures Chapter 3 is devoted to Bloch oscillations in semiconductors and their applications Chapter 4 discusses transient electron transport phenomena such as electron ballistic transport and electron velocity overshoot phenomena as well as non equilibrium phonon dynamics in nanostructure semiconductors Chapter 5 reviews experimental and theoretical work on the use of the phase properties of one or more ultrashort optical pulses to generate and control electrical currents in semiconductors

*Problems of Linear Electron (Polaron) Transport Theory in Semiconductors* M. I. Klinger, 2017-05-04 Problems of Linear Electron Polaron Transport Theory in Semiconductors summarizes and discusses the development of areas in electron transport theory in semiconductors with emphasis on the fundamental aspects of the theory and the essential physical nature of the transport processes The book is organized into three parts Part I focuses on some general topics in the theory of transport phenomena the general dynamical theory of linear transport in dissipative systems Kubo formulae and the phenomenological theory Part II deals with the theory of polaron transport in a crystalline semiconductor The last part contains a critical account of electron transport in disordered systems including amorphous substances with allowance for polaron effects

Advanced Physics of Electron Transport in Semiconductors and Nanostructures Massimo V. Fischetti, William G. Vandenberghe, 2016-05-20 This textbook is aimed at second year graduate students in Physics Electrical Engineering or Materials Science It presents a rigorous introduction to electronic transport in solids especially at the nanometer scale Understanding electronic transport in solids requires some basic knowledge of Hamiltonian Classical Mechanics Quantum Mechanics Condensed Matter Theory and Statistical Mechanics Hence this book discusses those sub topics which are required to deal with electronic transport in a single self contained course This will be useful for students who intend to work in academia or the nano micro electronics industry Further topics covered include the theory of energy bands in crystals of second quantization and elementary excitations in solids of the dielectric properties of semiconductors with an emphasis on dielectric screening and coupled interfacial modes of electron scattering with phonons plasmons electrons and photons of the derivation of transport equations in semiconductors and semiconductor nanostructures somewhat at the quantum level but mainly at the semi classical level The text presents examples relevant to current research thus not only about Si but also about III V compound semiconductors nanowires graphene and graphene nanoribbons In particular the text gives major emphasis to plane wave methods applied to the electronic structure of solids both DFT and empirical pseudopotentials always paying attention to their effects on electronic transport and its numerical treatment The core of the text is electronic transport with ample discussions of the transport equations derived both in the quantum picture the Liouville von Neumann equation and semi classically the Boltzmann transport equation BTE An advanced chapter Chapter 18 is strictly related to the tricky transition from the time reversible Liouville von Neumann equation to the time irreversible Green's functions to the density matrix formalism and classically to the Boltzmann transport equation Finally several methods for solving the BTE are



also reviewed including the method of moments iterative methods direct matrix inversion Cellular Automata and Monte Carlo Four appendices complete the text

**Electron Transport Phenomena in a Non-degenerate Semiconductor at High Fields** Hing Cheung Law,1970 **Ultrafast Dynamical Processes in Semiconductors** Kong-Thon Tsen,2004-02-25 An international team of experts describes the optical and electronic properties of semiconductors and semiconductor nanostructures at picosecond and femtosecond time scales The contributions cover the latest research on a wide range of topics In particular they include novel experimental techniques for studying and characterizing nanostructure materials The contributions are written in a tutorial way so that not only researchers in the field but also researchers and graduate students outside the field can benefit

**Physics of Semiconductors and Nanostructures** Jyoti Prasad Banerjee, Suranjana Banerjee,2019-06-11 This book is a comprehensive text on the physics of semiconductors and nanostructures for a large spectrum of students at the final undergraduate level studying physics material science and electronics engineering It offers introductory and advanced courses on solid state and semiconductor physics on one hand and the physics of low dimensional semiconductor structures on the other in a single text book Key Features Presents basic concepts of quantum theory solid state physics semiconductors and quantum nanostructures such as quantum well quantum wire quantum dot and superlattice In depth description of semiconductor heterojunctions lattice strain and modulation doping technique Covers transport in nanostructures under an electric and magnetic field with the topics quantized conductance Coulomb blockade and integer and fractional quantum Hall effect Presents the optical processes in nanostructures under a magnetic field Includes illustrative problems with hints for solutions in each chapter Physics of Semiconductors and Nanostructures will be helpful to students initiating PhD work in the field of semiconductor nanostructures and devices It follows a unique tutorial approach meeting the requirements of students who find learning the concepts difficult and want to study from a physical perspective *Ultrafast Phenomena in Semiconductors* ,1999

**Simulation of Semiconductor Processes and Devices 2007** Tibor Grasser,2007-09-18 This volume contains the proceedings of the 12th International Conference on Simulation of Semiconductor Processes and Devices SISPAD 2007 held September 2007 in Vienna Austria It provides a global forum for the presentation and discussion of recent advances and developments in the theoretical description physical modeling and numerical simulation and analysis of semiconductor fabrication processes device operation and system performance

**The Study of the Electron Transport Phenomena in Semiconductor P-N Structures** Dimitrije A. Tjapkin,1969 **State-of-the-Art Program on Compound Semiconductors XXXVI and Wide Bandgap Semiconductors for Photonic and Electronic Devices and Sensors II** Electrochemical Society. Electronics Division,Electrochemical Society. Sensor Division,2002 [Quantum Physics of Semiconductor Materials and Devices](#) Debdeep Jena,2022-05-16 Quantum Phenomena do not occur in a Hilbert space They occur in a laboratory Asher Peres Semiconductor physics is a laboratory to learn and discover the concepts of quantum



mechanics and thermodynamics condensed matter physics and materials science and the payoffs are almost immediate in the form of useful semiconductor devices Debdeep Jena has had the opportunity to work on both sides of the fence on the fundamental materials science and quantum physics of semiconductors and in their applications in semiconductor electronic and photonic devices In Quantum Physics of Semiconductors and Nanostructures Jena uses this experience to make each topic as tangible and accessible as possible to students at all levels Consider the simplest physical processes that occur in semiconductors electron or hole transport in bands and over barriers collision of electrons with the atoms in the crystal or when electrons and holes annihilate each other to produce a photon The correct explanation of these processes require a quantum mechanical treatment Any shortcuts lead to misconceptions that can take years to dispel and sometimes become roadblocks towards a deeper understanding and appreciation of the richness of the subject A typical introductory course on semiconductor physics would then require prerequisites of quantum mechanics statistical physics and thermodynamics materials science and electromagnetism Rarely would a student have all this background when s he takes a course of this nature in most universities Jena s work fills in these gaps and gives students the background and deeper understanding of the quantum physics of semiconductors and nanostructures

**VHF Ionospheric Scatter System Loss Measurements**

**European-Mediterranean Area** V. H. Goerke,1964 *NBS Technical Note* ,1965 Hydrogen in Semiconductors II

,1999-05-05 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 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 Provides the most in depth coverage of hydrogen in silicon available in a single source Includes an extensive chapter on the neutralization of defects in III b1V semiconductors Combines both experimental and theoretical studies to form a comprehensive reference

**Handbook of Semiconductors** Ram K. Gupta,2024-07-10 This book provides readers with state of the art knowledge of established and emerging semiconducting materials their processing and the fabrication of chips and microprocessors In addition to covering the fundamentals of these materials it details the basics and workings of many semiconducting devices



and their role in modern electronics and explores emerging semiconductors and their importance in future devices Provides readers with latest advances in semiconductors Covers diodes transistors and other devices using semiconducting materials Covers advances and challenges in semiconductors and their technological applications Discusses fundamentals and characteristics of emerging semiconductors for chip manufacturing This book provides directions to scientists engineers and researchers in materials engineering and related disciplines to help them better understand the physics characteristics and applications of modern semiconductors



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