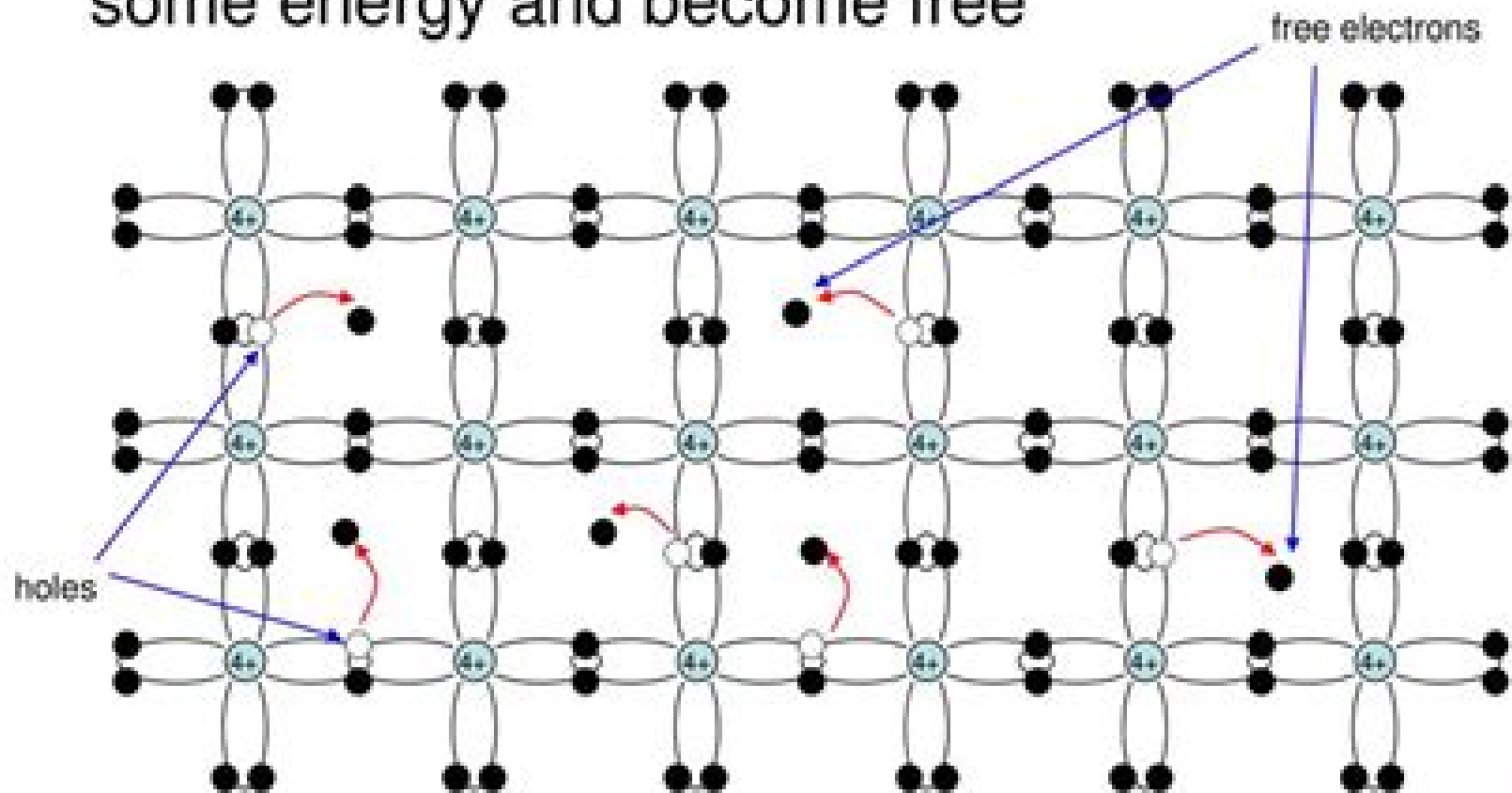


# Electron Transport in Semiconductor

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



# Electron Transport Phenomena In Semiconductors

**Carlo Jacoboni**

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## **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

**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

Semiconductor Optics and Transport Phenomena Wilfried Schäfer, Martin Wegener, 2002-03-12 Well balanced and up to date introduction to the field of semiconductor optics including transport phenomena in semiconductors Starting with the theoretical fundamentals of this field the book develops assuming a basic knowledge of solid state physics The application areas of the theory covered include semiconductor lasers detectors electro optic modulators single electron transistors microcavities and double barrier resonant tunneling diodes One hundred problems with hints for solution help the readers to deepen their knowledge

**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

**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

*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 Hot-Electron Transport in Semiconductors L. Reggiani, 2006-01-20 Hot Electron Transport in Semiconductors Topics in Applied Physics Electron Transport Phenomena in a Non-degenerate Semiconductor at High Fields Hing Cheung Law, 1970 *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 *Physics of Hot Electron Transport in Semiconductors* Chin Sen Ting, 1992 This review volume is based primarily on the balance equation approach developed since 1984 It provides a simple and analytical description about hot electron transport particularly in semiconductors with higher carrier density where the carrier carrier collision is much stronger than the single

particle scattering The steady state and time dependent hot electron transport thermal noise hot phonon effect the memory effect and other related subjects of charge carriers under strong electric fields are reviewed The application of Zubarev's nonequilibrium statistical operator to hot electron transport and its equivalence to the balance equation method are also presented For semiconductors with very low carrier density the problem can be regarded as a single carrier transport which will be treated non perturbatively by the nonequilibrium Green's function technique and the path integral theory The last part of this book consists of a chapter on the dynamic conductivity and the shot noise suppression of a double carrier resonant tunneling system

The Study of the Electron Transport Phenomena in Semiconductor P-N Structures Dimitrije A. Tjapkin, 1969      *Ultrafast Phenomena in Semiconductors*, 1999      *Theory of Electron Transport in Semiconductors* Carlo Jacoboni, 2010-09-05 This book originated out of a desire to provide students with an instrument which might lead them from knowledge of elementary classical and quantum physics to modern theoretical techniques for the analysis of electron transport in semiconductors The book is basically a textbook for students of physics material science and electronics Rather than a monograph on detailed advanced research in a specific area it intends to introduce the reader to the fascinating field of electron dynamics in semiconductors a field that through its applications to electronics greatly contributed to the transformation of all our lives in the second half of the twentieth century and continues to provide surprises and new challenges The field is so extensive that it has been necessary to leave aside many subjects while others could be dealt with only in terms of their basic principles The book is divided into five major parts Part I moves from a survey of the fundamentals of classical and quantum physics to a brief review of basic semiconductor physics Its purpose is to establish a common platform of language and symbols and to make the entire treatment as far as possible self contained Parts II and III respectively develop transport theory in bulk semiconductors in semiclassical and quantum frames Part IV is devoted to semiconductor structures including devices and mesoscopic coherent systems Finally Part V develops the basic theoretical tools of transport theory within the modern nonequilibrium Green function formulation starting from an introduction to second quantization formalism

*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

**Strain Effect in Semiconductors** Yongke Sun, Scott E. Thompson, Toshikazu Nishida, 2009-11-14 *Strain Effect in Semiconductors Theory and Device Applications* presents the fundamentals and applications of strain in semiconductors and semiconductor devices that is relevant for strain enhanced advanced CMOS technology and strain based piezoresistive MEMS transducers Discusses relevant applications of strain while also focusing

on the fundamental physics pertaining to bulk planar and scaled nano devices Hence this book is relevant for current strained Si logic technology as well as for understanding the physics and scaling for future strained nano scale devices

Physics and Applications of Non-Crystalline Semiconductors in Optoelectronics A. Andriesh, M. Bertolotti, 2012-12-06 The Workshop on Physics and Application of Non crystalline Semiconductors in Optoelectronics was held from 15 to 17 October 1996 in Chisinau republic of Moldova and was devoted to the problems of non crystalline semiconducting materials The reports covered two main topics theoretical basis of physics of non crystalline materials and experimental results In the framework of these major topics there were treated many subjects concerning the physics of non crystalline semiconductors and their specific application optical properties of non crystalline semiconductors doping of glassy semiconductors and photoinduced effects in chalcogenide glasses and their application for practical purposes methods for investigation of the structure in non crystalline semiconductors new glassy materials for IR transmittance and optoelectronics Reports and communications were presented on various aspects of the theory new physical principles studies of the atomic structure search and development of optoelectronics devices Special attention was paid to the actual subject of photoinduced transformations and its applications Experimental investigations covered a rather wide spectrum of materials and physical phenomena As a novel item it is worth to mention the study of nonlinear optical effects in amorphous semiconducting films The third order optical nonlinearities fast photoinduced optical absorption and refraction acousto optic effects recently discovered in non crystalline semiconductors could potentially be utilised for optical signal processing The important problems of photoinduced structural transformations and related phenomena which are very attractive and actual both from the scientific and practical points of view received much attention in discussions at the conference Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-11 Semiconductor Physics Karl W. Böer, Udo W. Pohl, 2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry *Hot Carriers in Semiconductors* Karl Hess, J.P. Leburton, U. Ravaioli, 2012-12-06 This volume contains invited and contributed papers of the Ninth International Conference on Hot

Carriers in Semiconductors HCIS 9 held July 3 I August 4 1995 in Chicago Illinois In all the conference featured 15 invited oral presentations 60 contributed oral presentations and 105 poster presentations and an international contingent of 170 scientists As in recent conferences the main themes of the conference were related to nonlinear transport in semiconductor heterojunctions and included Bloch oscillations laser diode structures and femtosecond spectroscopy Interesting questions related to nonlinear transport size quantization and intersubband scattering were addressed that are relevant to the new quantum cascade laser Many lectures were geared toward quantum wires and dots and toward nanostructures and mesoscopic systems in general It is expected that such research will open new horizons to nonlinear transport studies An attempt was made by the program committee to increase the number of presentations related directly to devices The richness of nonlocal hot electron effects that were discussed as a result in our opinion suggests that future conferences should further encourage reports on such device research On behalf of the Program and International Advisory Committees we thank the participants who made the conference a successful and pleasant experience and the support of the Army Research Office the Office of Naval Research and the Beckman Institute of the University of Illinois at Urbana Champaign We are also indebted to Mrs Sara Starkey and Mrs

## The Enigmatic Realm of **Electron Transport Phenomena In Semiconductors**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Electron Transport Phenomena In Semiconductors** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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