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# Problems of Linear Electron (Polaron) Transport Theory in Semiconductors

**M. I. Klinger**

*A. F. Ioffe Physicotechnical Institute,  
U. S. S. R. Academy of Sciences,  
Leningrad*

*Translated and edited by J. B. SYKES, Oxford*



# Problems Of Linear Electron Transport Theory In Semiconductors

**RC Schank**

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## **Problems Of Linear Electron Transport Theory 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

*Problems of Linear Electron (polaron) Transport Theory in Semiconductors* M. I. Klinger, 1979 *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

*Kinetic Theory of Nonideal Gases and Nonideal Plasmas* Yu L Klimontovich, 2013-10-22 *Kinetic Theory of Nonideal Gases and Nonideal Plasmas* presents the fundamental aspects of the kinetic theory of gases and plasmas The book consists of three parts which attempts to present some of the ideas methods and applications in the study of the kinetic processes in nonideal gases and plasmas The first part focuses on the classical kinetic theory of nonideal gases The second part discusses the classical kinetic theory of fully ionized plasmas The last part is devoted to the quantum kinetic theory of nonideal gases and plasmas A concluding chapter is included which presents a short account of the kinetic theory of chemically reacting systems and of partially ionized plasmas in order to espouse further studies in the field Physicists scientific researchers professors and graduate students in various fields will find the text of

good use     Theory of Phase Transitions Ya. G. Sinai, 2014-05-20 Theory of Phase Transitions Rigorous Results is inspired by lectures on mathematical problems of statistical physics presented in the Mathematical Institute of the Hungarian Academy of Sciences Budapest The aim of the book is to expound a series of rigorous results about the theory of phase transitions The book consists of four chapters wherein the first chapter discusses the Hamiltonian its symmetry group and the limit Gibbs distributions corresponding to a given Hamiltonian The second chapter studies the phase diagrams of lattice models that are considered at low temperatures The notions of a ground state of a Hamiltonian and the stability of the set of the ground states of a Hamiltonian are also introduced Chapter 3 presents the basic theorems about lattice models with continuous symmetry and Chapter 4 focuses on the second order phase transitions and on the theory of scaling probability distributions connected to these phase transitions Specialists in statistical physics and other related fields will greatly benefit from this publication     Solid State Physics , 1984-08-13 Solid State Physics     **Methods of Statistical Physics** A. I. Akhiezer, S. V. Peletminskii, 2013-10-22 Methods of Statistical Physics is an exposition of the tools of statistical mechanics which evaluates the kinetic equations of classical and quantized systems The book also analyzes the equations of macroscopic physics such as the equations of hydrodynamics for normal and superfluid liquids and macroscopic electrodynamics The text gives particular attention to the study of quantum systems This study begins with a discussion of problems of quantum statistics with a detailed description of the basics of quantum mechanics along with the theory of measurement An analysis of the asymptotic behavior of universal quantities is also explained Strong consideration is given to the systems with spontaneously broken system Theories such as the kinetic theory of gases the theory of Brownian motion the theory of the slowing down of neutrons and the theory of transport phenomena in crystals are discussed The book will be a useful tool for physicists mathematicians students and researchers in the field of statistical mechanics     Relativistic Astrophysics Marek Demiański, 2013-10-22 Relativistic Astrophysics brings together important astronomical discoveries and the significant achievements as well as the difficulties in the field of relativistic astrophysics This book is divided into 10 chapters that tackle some aspects of the field including the gravitational field stellar equilibrium black holes and cosmology The opening chapters introduce the theories to delineate gravitational field and the elements of relativistic thermodynamics and hydrodynamics The succeeding chapters deal with the gravitational fields in matter stellar equilibrium and general relativity stability and the properties of pulsar rotating and neutron stars The discussion then shifts to the association between gravitational collapse and black holes as well as the astrophysical investigations of neutron stars and black holes The final chapters examine the principles of gravitational waves and advances in understanding the field of cosmology This book will be of great value to astrophysicists and related scientists     **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

### **Multi Frequency EPR Spectroscopy of**

**Conjugated Polymers and Their Nanocomposites** Victor I. Krinichnyi, 2016-10-14 Conjugated polymeric materials and their nanocomposites are widely used for the creation of alternative sources of renewable energy cell phone screens mobile gadgets video players and OLED TV as well as organic diodes transistors sensors etc with field dependent and spin assisted electronic properties Multifrequency EPR Spectroscopy methods can help researchers optimize their structural magnetic and electronic properties for the creation of more efficient molecular devices This book will acquaint the reader with the basic properties of conjugated polymers the fundamentals of EPR Spectroscopy and the information that can be obtained at different wavebands of EPR spectroscopy

**Metal Vapours in Flames** C. Th. J. Alkemade, Tj. Hollander, W. Snelleman, P. J. Th. Zeegers, 2013-10-22 The book is unique in comprising our present knowledge about the general state of and the processes involving metal vapours in combustion flames It deals thoroughly with a great variety of experimental techniques including many practical hints and synthesizes the results in this field of research which are often scattered across publications in widely different areas of science and technology and over a large time span An account is given of the results of recent and past flame experiments on the properties of metal species and the processes in which they take part Properties and processes that are discussed in extenso include the dissociation energy of metal compounds collisional broadening of atomic lines physical and chemical excitation and quenching of electric states formation reactions of metal compounds ionization and diffusion Many of the topics and experimental methods discussed are also of interest in other fields of fundamental and applied science In particular explicit conclusions are drawn as to the analytical application of flame spectroscopy

**Cyclotron Waves in Plasma** D. G. Lominadze, 2013-10-22 Cyclotron Waves in Plasma is a four chapter text that covers the basic physical concepts of the theory of cyclotron waves and cyclotron instabilities brought about by the existence of steady or alternating plasma currents flowing perpendicular to the magnetic field This book considers first a wide range of questions associated with the linear theory of cyclotron oscillations in equilibrium plasmas and in electron plasmas in metals and semiconductors The next chapter deals with the parametric excitation of electron cyclotron oscillations in plasma in an alternating electric field A chapter focuses on plasma turbulence which results from the development of cyclotron instabilities The last chapter discusses pertinent experimental data concerning cyclotron waves in

plasma The book is intended for specialists in plasma physics and a number of related fields including the physics of the ionosphere solar wind and metals as well as for students and teachers who are specializing in these subjects      **Physics Briefs** ,1992      *Scientific and Technical Aerospace Reports* ,1995      *Wave Scattering from Statistically Rough Surfaces* F. G. Bass,I. M. Fuks,2013-10-22 *Wave Scattering from Statistically Rough Surfaces* discusses the complications in radio physics and hydro acoustics in relation to wave transmission under settings seen in nature Some of the topics that are covered include radar and sonar the effect of variations in topographic relief or ocean waves on the transmission of radio and sound waves the reproduction of radio waves from the lower layers of the ionosphere and the oscillations of signals within the earth ionosphere waveguide The book begins with some fundamental idea of wave transmission theory and the theory of random processes as used to rough surfaces and to wave fields This discussion is followed by an analysis of the average fields of sound and electromagnetic waves A section on spatial correlation characteristics in the approximation of small perturbations is then given Another chapter of the text explains the Kirchhoff method The book will provide useful information to physicists mechanical engineer students and researchers in the field of acoustics      *Basic Properties of Semiconductors* P.T. Landsberg,2016-04-19 Since Volume 1 was published in 1982 the centres of interest in the basic physics of semiconductors have shifted Volume 1 was called Band Theory and Transport Properties in the first edition but the subject has broadened to such an extent that Basic Properties is now a more suitable title Seven chapters have been rewritten by the original authors However twelve chapters are essentially new with the bulk of this work being devoted to important current topics which give this volume an almost encyclopaedic form The first three chapters discuss various aspects of modern band theory and the next two analyze impurities in semiconductors Then follow chapters on semiconductor statistics and on surfaces interfaces and band offsets as they occur in heterojunctions Chapters 8 to 19 report on newer topics though a survey of transport properties of carriers is also included Among these are transport of hot electrons and thermoelectric effects including here and elsewhere properties of low dimensional and mesoscopic structures The electron hole liquid the quantum Hall effect localisation ballistic transport coherence in superlattices current ideas on tunnelling and on quantum confinement and scattering processes are also covered      **Boundary Value Problems in Abstract Kinetic Theory** W. Greenberg,2013-12-14 This monograph is intended to be a reasonably self contained and fairly complete exposition of rigorous results in abstract kinetic theory Throughout abstract kinetic equations refer to an abstract formulation of equations which describe transport of particles momentum energy or indeed any transportable physical quantity These include the equations of traditional neutron transport theory radiative transfer and rarefied gas dynamics as well as a plethora of additional applications in various areas of physics chemistry biology and engineering The mathematical problems addressed within the monograph deal with existence and uniqueness of solutions of initial boundary value problems as well as questions of positivity continuity growth stability explicit representation of solutions and equivalence of various formulations of the

transport equations under consideration The reader is assumed to have a certain familiarity with elementary aspects of functional analysis especially basic semigroup theory and an effort is made to outline any more specialized topics as they are introduced Over the past several years there has been substantial progress in developing an abstract mathematical framework for treating linear transport problems The benefits of such an abstract theory are twofold i a mathematically rigorous basis has been established for a variety of problems which were traditionally treated by somewhat heuristic distribution theory methods and ii the results obtained are applicable to a great variety of disparate kinetic processes Thus numerous different systems of integrodifferential equations which model a variety of kinetic processes are themselves modelled by an abstract operator equation on a Hilbert or Banach space

*Hot Electrons in Semiconductors* N. Balkan, 1998 Since the arrival of the transistor in 1947 research in hot electrons like any field in semiconductor research has grown at a stunning rate From a physicist's point of view the understanding of hot electrons and their interactions with the lattice has always been a challenging problem of condensed matter physics Recently with the advent of novel fabrication techniques such as electron beam or plasma etching and the advanced growth techniques such as the molecular beam epitaxy MBE and metallo organic chemical vapour deposition MOCVD it has become possible to fabricate semiconductor devices with sub micron dimensions where the electrons are confined to two quantum well one quantum wire or zero quantum dot dimensions In devices of such dimensions a few volts applied to the device result in the setting up of very high electric fields hence a substantial heating of electrons Thus electronic transport in the device becomes non linear and can no longer be described using the simple equations of Ohm's law The understanding of the operations of such devices and the realisations of more advanced ones make it necessary to understand the dynamics of hot electrons There is an obvious lack of good reference books on hot electrons in semiconductors The few that exist either cover a very narrow field or are becoming quite outdated This book is therefore written with the aim of filling the vacuum in an area where there is much demand for a comprehensive reference book The book is intended for both established researchers and graduate students and gives a complete account of the historical development of the subject together with current research interests and future trends The contributions are written by leading scientists in the field They cover the physics of hot electrons in bulk and low dimensional device technology The material is organised into subject area that can be classified broadly into five groups 1 introduction and overview 2 hot electron phonon interactions and the ultra fast phenomena in bulk and two dimensional structures 3 hot electrons in both long and short quantum wires and quantum dots 4 hot electron tunnelling and hot electron transport in superlattices and 5 novel devices based on hot electron transport The chapters are grouped according to subject matter as far as possible However although there is much overlap of ideas and concepts each chapter is essentially independent of the others

Journal of the Indian Institute of Science Indian Institute of Science, Bangalore, 1980      **Technical Abstract Bulletin** Defense Documentation Center (U.S.), 1964

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