

Techniques of Physics 5

Green's Functions and Condensed Matter

G. Rickayzen

Green S Functions And Condensed Matter G Rickayzen

Nikolai B. Melnikov, Boris I. Reser



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Green's Functions and Condensed Matter G. Rickayzen, 2013-05-22 Green s functions named for the mathematician who developed them in the 1830s possess applications in many areas of physics This volume presents the basic theoretical formulation followed by specific applications that include transport coefficients of a metal the Coulomb gas Fermi liquids electrons and phonons superconductivity superfluidity and magnetism 1984 edition **Green's Functions and Condensed Matter** G. Rickayzen, 1980 **Green's Functions and Condensed Matter** Gill Rickayzen, 1984 Green's Functions and Condensed Matter G. Rickayzen, 2013-06-03 Presentation of the basic theoretical formulation of Green s functions followed by specific applications transport coefficients of a metal Coulomb gas Fermi liquids electrons and phonons superconductivity superfluidity and magnetism 1984 edition **Theory Of Single And Multiple Interfaces: The Method Of Surface Green Function Matching** F Garcia-moliner, Victor R Velasco, 1992-06-08 Based on a scattering theoretic approach which effectively constitutes an extension of the Dyson or Lippman Schwinger theories Green functions constitute the backbone of a matching analysis This analysis is applied to a wide range of models materials and physical problems from electronic structure of semiconductor superlattices or phonons in metal superlattices to surface Brillouin scattering piezoelectric surface waves or interface waves in viscoelastic fluids *Nanoelectronics: A Molecular View* Avik Ghosh, 2016-09-29 This is one of the best available graduate level textbooks on electronic transport at the nanoscale Its unique feature is providing a thorough and completely self contained treatment of several theoretical formalisms for treating the transport problem As such the book is useful not only for the graduate students working in the field of nanoscale electrical transport but also for the researchers who wish to expand their knowledge of various fundamental issues associated with this rapidly developing field Of particular note are deep physical insights accompanying the rigorous mathematical derivations in each of the chapters as well as the clear statement of all the approximations involved in a particular theoretical formalism This winning combination makes the book very accessible to a reader with basic knowledge of quantum mechanics solid state theory and thermodynamics statistical mechanics I give this book the highest recommendation Read Full Review Serfei A Egorov Univeristy of Virginia USA This book is aimed at senior undergraduates graduate students and researchers interested in quantitative understanding and modeling of nanomaterial and device physics With the rapid slow down of semiconductor scaling that drove information technology for decades there is a pressing need to understand and model electron flow at its fundamental molecular limits The purpose of this book is to enable such a deconstruction needed to design the next generation memory logic sensor and communication elements Through numerous case studies and topical examples relating to emerging technology this book connects top down classical device physics taught in electrical engineering classes with bottom up quantum and many body transport physics taught in physics and chemistry The book assumes no more than a nodding acquaintance with quantum mechanics in addition to knowledge of freshman level mathematics Segments of this

book are useful as a textbook for a course in nano electronics *The Physics of Phase Space* Young S. Kim, Woodford W. Zachary, 2005-09-13 The concept of phase space plays a decisive role in the study of the transition from classical to quantum physics This is particularly the case in areas such as nonlinear dynamics and chaos geometric quantization and the study of the various semi classical theories which are the setting of the present volume Much of the content is devoted to the study of the Wigner distribution This volume gives the first complete survey of the progress made by both mathematicians and physicists It will serve as an excellent reference for further research **Green's Functions in Quantum Physics**

Eleftherios N. Economou, 2006-08-02 Of interest to advanced students this book focuses on Green s functions for obtaining simple and general solutions to basic problems in quantum physics It demonstrates the unifying formalism of Green s functions across many applications including transport properties carbon nanotubes and photonics and photonic crystals

Trends in Quantum Dots Research Peter A. Ling, 2005 A quantum dot is a particle of matter so small that the addition or removal of an electron changes its properties in some useful way All atoms are quantum dots but multi molecular combinations can have this characteristic In biochemistry quantum dots are called redox groups In nanotechnology they are called quantum bits or qubits Quantum dots typically have dimensions measured in nanometres where one nanometre is 10^{-9} meter or a millionth of a millimetre The fields of biology chemistry computer science and electronics are all of interest to researchers in nanotechnology Other applications of quantum dots include nanomachines neural networks and high density memory or storage media Research is being carried out on nano crystals self assembled dots and gated structures This book presents leading edge research from around the world **Dynamic Spin-Fluctuation Theory of Metallic Magnetism**

Nikolai B. Melnikov, Boris I. Reser, 2018-08-02 This book presents a theoretical framework for magnetism in ferromagnetic metals and alloys at finite temperatures The objective of the book is twofold First it gives a detailed presentation of the dynamic spin fluctuation theory that takes into account both local and long wave spin fluctuations with any frequency The authors provide a detailed explanation of the fundamental role of quantum spin fluctuations in the mechanism of metallic magnetism and illustrate the theory with concrete examples The second objective of the book is to give an accurate and self contained presentation of many body techniques such as the functional integral method and Green s functions via a number of worked examples These computational methods are of great use to solid state physicists working in a range of specialties The book is intended primarily for researchers but can also be used as textbook The introductory chapters offer clear and complete derivations of the fundamentals which makes the presentation self contained The main text is followed by a number of well organized appendices that contain a detailed presentation of the necessary many body techniques and computational methods The book also includes a list of symbols and detailed index This volume will be of interest to a wide range of physicists interested in magnetism and solid state physics in general both theoreticians and experimentalists *Spin Dependent Transport in Magnetic Nanostructures* Sadamichi Maekawa, Teruya Shinjo, 2002-07-11 In magnetic systems of

nano meter size the interplay between spin and charge of electrons provides unique transport phenomena In magnetic superlattices magnetic and non magnetic metallic thin films with thickness of the order of one nano meter are piled up alternately Since the discovery of giant magnetoresistance GMR in these superlattices in 1988 spin dependent transport phenomena in magnetic nanostructures have received much attention from both academic and technological points of view Ferromagnetic tunnel junctions made of ferromagnetic metal electrodes and a very thin insulating barrier between them are also of current interest as magnetoresistive devices where the tunneling current depends on the relative orientation of magnetization TMR In addition to magnetic superlattices and magnetic tunnel junctions magnetic granular systems and magnetic dots have been studied extensively as magnetoresistive systems Edited by two of the world's leading authorities Spin Dependent Transport in Magnetic Nanostructures introduces and explains the basic physics and applications of a variety of spin dependent transport phenomena in magnetic nanostructures with particular emphasis on magnetic multilayers and magnetic tunnel junctions

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

Statistical Physics II R. Kubo, M. Toda, N. Hashitsume, 2012-12-06 This volume of Statistical Physics constitutes the second part of Statistical Physics Springer Series in Solid State Science Vols 30-31 and is devoted to nonequilibrium theories of statistical mechanics We start with an introduction to the stochastic treatment of Brownian motion and then proceed to general problems involved in deriving a physical process from an underlying more basic process Relaxation from nonequilibrium to equilibrium states and the response of a system to an external disturbance form the central problems of nonequilibrium statistical mechanics These problems are treated both phenomenologically and microscopically along the lines of recent

developments Emphasis is placed on fundamental concepts and methods rather than on applications which are too numerous to be treated exhaustively within the limited space of this volume For information on the general aim of this book the reader is referred to the Foreword For further reading the reader should consult the bibliographies although these are not meant to be exhaustive *Statistical Physics II* Morikazu Toda,R. Kubo,Nobuhiko Saitō,Natsuki Hashitsume,N.

Hashitsume,1991-11-14 *Statistical Physics II* introduces nonequilibrium theories of statistical mechanics from the viewpoint of the fluctuation dissipation theorem Emphasis is placed on the relaxation from nonequilibrium to equilibrium states the response of a system to an external disturbance and general problems involved in deriving a macroscopic physical process from more basic underlying processes Fundamental concepts and methods are stressed rather than the numerous individual applications *Statistical Physics II* Ryogo Kubo,Morikazu Toda,Natsuki Hashitsume,2012-12-06 *Statistical Physics II*

introduces nonequilibrium theories of statistical mechanics from the viewpoint of the fluctuation dissipation theorem Emphasis is placed on the relaxation from nonequilibrium to equilibrium states the response of a system to an external disturbance and general problems involved in deriving a macroscopic physical process from more basic underlying processes Fundamental concepts and methods are stressed rather than the numerous individual applications Strongly Correlated Systems Adolfo Avella,Ferdinando Mancini,2014-10-01 The continuous evolution and development of experimental techniques is at the basis of any fundamental achievement in modern physics Strongly correlated systems SCS more than any other need to be investigated through the greatest variety of experimental techniques in order to unveil and crosscheck the numerous and puzzling anomalous behaviors characterizing them The study of SCS fostered the improvement of many old experimental techniques but also the advent of many new ones just invented in order to analyze the complex behaviors of these systems Many novel materials with functional properties emerging from macroscopic quantum behaviors at the frontier of modern research in physics chemistry and materials science belong to this class of systems The volume presents a representative collection of the modern experimental techniques specifically tailored for the analysis of strongly correlated systems Any technique is presented in great detail by its own inventor or by one of the world wide recognized main contributors The exposition has a clear pedagogical cut and fully reports on the most relevant case study where the specific technique showed to be very successful in describing and enlightening the puzzling physics of a particular strongly correlated system The book is intended for advanced graduate students and post docs in the field as textbook and or main reference but also for any other researcher in the field who appreciates consulting a single but comprehensive source or wishes to get acquainted in a as painless as possible way with the working details of a specific technique *The Physics of Superconductors* Karl-Heinz Bennemann,John B. Ketterson,2012-12-06 Superconductivity has undergone tremendous advances in recent years Most notable of course was the discovery of high temperature superconductivity in the cuprates This discovery resulted in an enormous influx of new workers to the field representing a host of experimental and theoretical

disciplines When we combine this with the discovery of superconductivity in other materials such as heavy fermion metals MgB₂ various organics fullerenes field effect devices magnetic metals under pressure and presumably non s symmetry triplet Cooper pairing in ruthenates e g Sr₂RuO₄ we have an enrichment of the phenomena superconductivity This resulted in an explosion of interest in the field Many of the new superconductors are being called unconventional either with respect to the pairing mechanism or the symmetry of the under lying order parameter Yet in spite of these new materials and directions continuing studies of conventional electron phonon based superconductivity remain interesting With the aid of historical hindsight we expect the field to continue to advance in unexpected directions Nonetheless it is our view that a state of the art treatise on superconductivity is justified at this time not only to summarize the present understanding but also to introduce newcomers to the field as was the case with the two justly famous 1968 bibles of super conductivity by our former colleague R D Parks for an earlier generation Hopefully the present books might help to point the way for future workers research and discoveries

Chemical Bonds Outside Metal Surfaces Norman H. March, 2012-12-06 The problem of molecules interacting with metal surfaces has for a very long time been recognized to be of considerable technological as well as fundamental importance Thus in the former category a substantial number of important synthetic reactions for industrial purposes make use of metal surfaces as catalysts Or again problems of corrosion of metals are of great practical importance such as in nuclear reactor technology see for instance my earlier articles in Physics Bulletin Volume 25 p 582 Institute of Physics UK 1974 and in Physics and Contemporary Needs Riazuddin ed Vol 1 p 53 Plenum Press New York 1977 It is therefore of significance to strive to gain a more fundamental understanding of the atomic and ultimately the electronic processes that occur when a molecule is brought into the proximity of a metal surface The present volume focuses mainly on the theory and concepts involved however it is intended for readers in chemistry physics and materials science who are not specialists in theory but nevertheless wish to learn more about this truly interdisciplinary area of theoretical science The aim of the book is to present the way in which valence theory can be synthesized with the understanding of metals that has been gained over the last half century or so While advanced theory has at times been necessary is largely presented in an extensive set of

Appendixes **Very High Resolution Photoelectron Spectroscopy** Stephan Hüfner, 2007-04-10 Photoemission spectroscopy is one of the most extensively used methods to study the electronic structure of atoms molecules and solids and their surfaces This volume introduces and surveys the field at highest energy and momentum resolutions allowing for a new range of applications in particular for studies of high temperature superconductors

Statistical Plasma Physics, Volume II Setsuo Ichimaru, 2018-05-04 The aim of this book is to elucidate a number of basic topics in physics of dense plasmas that interface with condensed matter physics atomic physics nuclear physics and astrophysics The different plasmas examined here include astrophysical dense plasmas like those found in the interiors surfaces and outer envelopes of such astronomical objects as neutron stars white dwarfs the Sun brown dwarfs and giant planets Condensed plasmas in laboratory

settings cover metals and alloys solid amorphous liquid and compressed semiconductors electrons holes and their droplets and various realizations of dense plasmas shock compressed diamond anvil cell metal vaporization pinch discharges and more Statistical Plasma Physics Volume II Condensed Plasmas is intended as a graduate level textbook on the subjects of condensed plasma physics material sciences and condensed matter astrophysics It will also be useful to researchers in the fields of plasma physics condensed matter physics atomic physics nuclear physics and astrophysics

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