


## Methods of solution



$$\begin{pmatrix} -\frac{\hbar^2 \left( \nabla - \frac{ie}{\hbar c} \vec{A} \right)^2}{2m} - \frac{\hbar^2 k_F^2}{2m} + U \\ \frac{\hbar^2 \left( \nabla + \frac{ie}{\hbar c} \vec{A} \right)^2}{2m} + \frac{\hbar^2 k_F^2}{2m} - U \end{pmatrix} \begin{pmatrix} u + \Delta v \\ v + \Delta^* u \end{pmatrix} = (\varepsilon \pm \beta H) \begin{pmatrix} u \\ v \end{pmatrix}$$

*The scale of the gap modulation*

$$\xi = \frac{\hbar V_F}{\Delta}$$

## Quasiclassical approach:

$$\hat{\Psi} = (u, v) = \hat{\psi} e^{iS} \quad |\nabla S| = k_F \gg \frac{1}{\xi}$$

# Quasiclassical Methods

**N. B. Kopnin**



## Quasiclassical Methods:

**Quasiclassical Methods** Jeffrey Rauch, Barry Simon, 2012-12-06 This IMA Volume in Mathematics and its Applications QUASICLASSICAL METHODS is based on the proceedings of a very successful one week workshop with the same title which was an integral part of the 1994 1995 IMA program on Waves and Scattering We would like to thank Jeffrey Rauch and Barry Simon for their excellent work as organizers of the meeting We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible

A vner Friedman Robert Gulliver v PREFACE There are a large number of problems where qualitative features of a partial differential equation in an appropriate regime are determined by the behavior of an associated ordinary differential equation The example which gives the area its name is the limit of quantum mechanical Hamiltonians Schrodinger operators as Planck s constant  $h$  goes to zero which is determined by the corresponding classical mechanical system A sec ond example is linear wave equations with highly oscillatory initial data The solutions are described by geometric optics whose centerpiece are rays which are solutions of ordinary differential equations analogous to the clas sical mechanics equations in the example above Much recent work has concerned with understanding terms beyond the leading term determined by the quasi classical limit Two examples of this involve Weyl asymptotics and the large  $Z$  limit of atomic Hamiltonians both areas of current research

*Qualitative Methods In Quantum Theory* Migdal, 2018-03-05 This unique book written by a leading Soviet theorist is not a textbook of quantum mechanics but rather a compendium of the tricks of the trade the methods that all practicing theoretical physicists use but few have set down in writing

**Theory of Nonequilibrium Superconductivity** N. B. Kopnin, 2001-05-03 This text deals with the behaviour of superconductors in external fields varying in time and with transport phenomena in superconductors

**Theory and Applications of Moment Methods in Many-Fermion Systems** B. J. Dalton, 2012-12-06 The first international conference on Theory and Applications of Moment Methods in Many Fermion Systems was held September 10 13 1979 at Iowa State University Manuscripts of the invited talks presented at this conference are the contents of this volume These manuscripts were prepared and delivered to the editors by the authors the responsibility for any errors in scientific con tent is theirs While we the editors have made every effort to keep this volume as free from typographical errors as possible we accept responsibility for such errors as do occur even those which may be mistaken for scientific error All but one of the invited talks given at the conference are reported here those authors apparently felt unable to provide the editors with manuscripts The editors who also served as the organizing committee would like to express appreciation to the sponsors of this con ference Physics Department Ames Laboratory Energy and Mineral Resources Research Institute and the Graduate College all of Iowa State University the National Science Foundation and the U S Department of Energy Their generosity both in terms of funding and support made the conference possible We should also like to express our gratitude to the Interna tional Advisory Committee whose prestige

lent support to the conference and whose advice in topic selection was invaluable Those members were Grenoble France R Arvieu C Bender Lawrence Livermore Laboratory J B French University of Rochester Fowler California Institute of Technology W *Atomic And Free Electrons In A Strong Light Field* Mikhail V Fedorov,1998-01-15 This book presents and describes a series of unusual and striking strong field phenomena concerning atoms and free electrons Some of these phenomena are multiphoton stimulated bremsstrahlung free electron lasers wave packet physics above threshold ionization and strong field stabilization in Rydberg atoms The theoretical foundations and causes of the phenomena are described in detail with all the approximations and derivations discussed All the known and relevant experiments are described too and their results are compared with those of the existing theoretical models An extensive general theoretical introduction gives a good basis for subsequent parts of the book and is an independent and self sufficient description of the most efficient theoretical methods of the strong field and multiphoton physics This book can serve as a textbook for graduate students

**Modern Methods for Multidimensional Dynamics Computations in Chemistry** Donald Leo Thompson,1998 This volume describes many of the key practical theoretical techniques that have been developed to treat chemical dynamics problems in many atom systems It contains thorough treatments of fundamental theory and prescriptions for performing computations The selection of methods ranging from gas phase bimolecular reactions to complex processes in condensed phases reflects the breadth of the field The book is an excellent reference for proven and accepted methods as well as for theoretical approaches that are still being developed It is appropriate for graduate students and other novices who wish to begin working in chemical dynamics as well as active researchers who wish to acquire a wider knowledge of the field

*Scientific and Technical Aerospace Reports* ,1989 **Advanced Topics in Quantum Field Theory** M.

Shifman,2012-01-19 Since the advent of Yang Mills theories and supersymmetry in the 1970s quantum field theory the basis of the modern description of physical phenomena at the fundamental level has undergone revolutionary developments This is the first systematic and comprehensive text devoted specifically to modern field theory bringing readers to the cutting edge of current research The book emphasizes nonperturbative phenomena and supersymmetry It includes a thorough discussion of various phases of gauge theories extended objects and their quantization and global supersymmetry from a modern perspective Featuring extensive cross referencing from traditional topics to recent breakthroughs in the field it prepares students for independent research The side boxes summarizing the main results and over 70 exercises make this an indispensable book for graduate students and researchers in theoretical physics **Atom - Molecule Collision Theory**

Richard Barry Bernstein,2013-11-11 The broad field of molecular collisions is one of considerable current interest one in which there is a great deal of research activity both experimental and theoretical This is probably because elastic inelastic and reactive intermolecular collisions are of central importance in many of the fundamental processes of chemistry and physics One small area of this field namely atom molecule collisions is now beginning to be understood from first principles

Although the more general subject of the collisions of polyatomic molecules is of great importance and intrinsic interest it is still too complex from the viewpoint of theoretical understanding. However for atoms and simple molecules the essential theory is well developed and computational methods are sufficiently advanced that calculations can now be favorably compared with experimental results. This coming together of the subject and incidentally of physicists and chemists though still in an early stage signals that the time is ripe for an appraisal and review of the theoretical basis of atom molecule collisions. It is especially important for the experimentalist in the field to have a working knowledge of the theory and computational methods required to describe the experimentally observable behavior of the system. By now many of the alternative theoretical approaches and computational procedures have been tested and intercompared. More or less optimal methods for dealing with each aspect are emerging. In many cases working equations even schematic algorithms have been developed with assumptions and caveats delineated. Transport Properties of Dense Plasmas W. Ebeling et al., 1983-12-31

No detailed description available for Transport Properties of Dense Plasmas **Extreme States of Matter** Vladimir E. Fortov, 2015-12-26 With its many beautiful colour pictures this book gives fascinating insights into the unusual forms and behaviour of matter under extremely high pressures and temperatures. These extreme states are generated among other things by strong shock detonation and electric explosion waves, dense laser beams, electron and ion beams, hypersonic entry of spacecraft into dense atmospheres of planets and in many other situations characterized by extremely high pressures and temperatures. Written by one of the world's foremost experts on the topic, this book will inform and fascinate all scientists dealing with materials properties and physics and also serve as an excellent introduction to plasma shock wave and high energy density physics for students and newcomers seeking an overview. This second edition is thoroughly revised and expanded in particular with new material on high energy density physics, nuclear explosions and other nuclear transformation processes. **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2013-12-20 New Developments in

Quantum Field Theory and Statistical Mechanics Cargèse 1976 M. Levy, 2013-06-29 The 1976 Cargèse Summer Institute was devoted to the study of certain exciting developments in quantum field theory and critical phenomena. Its genesis occurred in 1974 as an outgrowth of many scientific discussions amongst the undersigned who decided to form a scientific committee for the organization of the school. On the one hand various workers in quantum field theory were continuing to make startling progress in different directions. On the other hand many new problems were arising from these various domains. Thus we felt that 1976 might be an appropriate occasion both to review recent developments and to encourage interactions between researchers from different backgrounds working on a common set of unsolved problems. An important aspect of the school as it took place was the participation of and stimulating interaction between such a broad spectrum of theorists. The central topics of the school were chosen from the areas of solitons, phase transitions, critical behavior, the renormalization group, gauge fields and the analysis of nonrenormalizable field theories. A noteworthy feature of these topics is the interpenetration

of ideas from quantum field theory and statistical mechanics whose inherent unity is seen in the functional integral formulation of quantum field theory The actual lectures were partly in the form of tutorials designed to familiarize the participants with recent progress on the main topics of the school Others were in the form of more specialized seminars reporting on recent research

**Interaction of Gases with Surfaces** Alexander V. Bogdanov, German V.

Dubrovskiy, Michael P. Krutikov, Dmitry V. Kulginov, Victor M. Strelchenya, 2008-09-11 Interface phenomena are most fascinating because of the mixing of different scales and the interference of diverse physical processes This makes it necessary to use different levels of description microscopic kinetic and gas dynamical A unified quasiclassical approach is used to answer practical questions dealing with inelastic gas surface scattering the kinetics of adsorption layers the evolution of inhomogeneities and defects at the surface the Knudsen layer the development of boundary conditions on the kinetic and gas dynamical levels the determination of exchange and slip coefficients and so on

**Instantons In Gauge Theories**

Misha Shifman, 1994-07-15 This volume is a compilation of works which taken together give a complete and consistent presentation of instanton calculus in non Abelian gauge theories as it exists now Some of the papers reproduced are instanton classics Among other things they show from a historical perspective how the instanton solution has been found the motivation behind it and how the physical meaning of instantons has been revealed Other papers are devoted to different aspects of instanton formalism including instantons in supersymmetric gauge theories A few unsolved problems associated with instantons are described in great detail The papers are organized into several sections that are linked both logically and historically accompanied by extensive comments

**Quantum Systems in Chemistry and Physics. Trends in Methods and Applications** R. McWeeny, Jean Maruani, Y.G. Smeyers, S. Wilson, 2012-12-06

Quantum Systems in Chemistry and Physics contains a refereed selection of the papers presented at the first European Workshop on this subject held at San Miniato near Pisa Italy in April 1996 The Workshop brought together leading experts in theoretical chemistry and molecular physics with an interest in the quantum mechanical many body problem This volume provides an insight into the latest research in this increasingly important field Throughout the Workshop the emphasis was on innovative theory and conceptual developments rather than on computational implementation The various contributions presented reflect this emphasis and embrace topics such as density matrices and density functional theory relativistic formulations electron correlation valence theory nuclear motion response theory condensed matter and chemical reactions Audience The volume will be of interest to those working in the molecular sciences and to theoretical chemists and molecular physicists in particular

**Fundamental Aspects of Plasma Chemical Physics** Mario Capitelli, Roberto Celiberto, Gianpiero Colonna, Fabrizio Esposito, Claudine

Gorse, Khaled Hassouni, Annarita Laricchiuta, Savino Longo, 2015-11-26 Describing non equilibrium cold plasmas through a chemical physics approach this book uses the state to state plasma kinetics which considers each internal state as a new species with its own cross sections Extended atomic and molecular master equations are coupled with Boltzmann and Monte

Carlo methods to solve the electron energy distribution function Selected examples in different applied fields such as microelectronics fusion and aerospace are presented and discussed including the self consistent kinetics in RF parallel plate reactors the optimization of negative ion sources and the expansion of high enthalpy flows through nozzles of different geometries The book will cover the main aspects of the state to state kinetic approach for the description of nonequilibrium cold plasmas illustrating the more recent achievements in the development of kinetic models including the self consistent coupling of master equations and Boltzmann equation for electron dynamics To give a complete portrayal the book will assess fundamental concepts and theoretical formulations based on a unified methodological approach and explore the insight in related scientific problems still opened for the research community Advanced Topics in Quantum Field Theory

Mikhail Shifman, 2022-04-28 Quantum field theory is the basis of our modern description of physical phenomena at the fundamental level This systematic and comprehensive text emphasizes nonperturbative phenomena and supersymmetry It includes a thorough discussion of various phases of gauge theories extended objects and their quantization and global supersymmetry from a modern perspective This Second Edition is revised to include topics developed in the last decade including higher form global symmetries and their applications anomalies in supersymmetric theories beyond Ferrara Zumino and non Abelian supersymmetric vortex strings A new final part is added presenting more than 90 problems with detailed solutions allowing students to check their understanding of the acquired knowledge and providing extra details to supplement the main text descriptions This an indispensable book for graduate students and researchers in theoretical physics **Theory of Quantum Transport at Nanoscale** Dmitry Ryndyk, 2015-12-08 This book is an introduction to a

rapidly developing field of modern theoretical physics the theory of quantum transport at nanoscale The theoretical methods considered in the book are in the basis of our understanding of charge spin and heat transport in nanostructures and nanostructured materials and are widely used in nanoelectronics molecular electronics spin dependent electronics spintronics and bio electronics The book is based on lectures for graduate and post graduate students at the University of Regensburg and the Technische Universität Dresden TU Dresden The first part is devoted to the basic concepts of quantum transport Landauer Bttiker method and matrix Green function formalism for coherent transport Tunneling Transfer Hamiltonian and master equation methods for tunneling Coulomb blockade vibrons and polarons The results in this part are obtained as possible without sophisticated techniques such as nonequilibrium Green functions which are considered in detail in the second part A general introduction into the nonequilibrium Green function theory is given The approach based on the equation of motion technique as well as more sophisticated one based on the Dyson Keldysh diagrammatic technique are presented The main attention is paid to the theoretical methods able to describe the nonequilibrium at finite voltage electron transport through interacting nanosystems specifically the correlation effects due to electron electron and electron vibron interactions The Role of Degenerate States in Chemistry, Volume 124 Michael Baer, Gert Due Billing, 2003-03-31 Edited

by Nobel Prize winner Ilya Prigogine and renowned authority Stuart A Rice the Advances in Chemical Physics series provides a forum for critical authoritative evaluations in every area of the discipline In a format that encourages the expression of individual points of view experts in the field present comprehensive analyses of subjects of interest This stand alone special topics volume edited by Gert D Billing of the University of Copenhagen and Michael Baer of the Soreq Nuclear Research Center in Yavne Israel reports recent advances on the role of degenerate states in chemistry Volume 124 collects innovative papers on Complex States of Simple Molecular Systems Electron Nuclear Dynamics Conical Intersections and the Spin Orbit Interaction and many more related topics Advances in Chemical Physics remains the premier venue for presentations of new findings in its field



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