

Physics of Atoms and Molecules

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**ZERO-RANGE
POTENTIALS
and Their
Applications in
Atomic Physics**

**Yu. N. Demkov and
V. N. Ostrovskii**

Zero Range Potentials And Their Applications In Atomic Physics

DJ Losen



Zero Range Potentials And Their Applications In Atomic Physics:

Zero-Range Potentials and Their Applications in Atomic Physics Yu.N. Demkov, V.N. Ostrovskii, 2013-11-11 **Theory of Electron—Atom Collisions** Philip G. Burke, Charles J. Joachain, 2013-06-29 The authors aim to hone the theory of electron atom and electron ion collisions by developing mathematical equations and comparing their results to the wealth of recent experimental data This first of three parts focuses on potential scattering and will serve as an introduction to many of the concepts covered in Parts II and III As these processes occur in so many of the physical sciences researchers in astrophysics atmospheric physics plasma physics and laser physics will all benefit from the monograph **Introduction to the Theory of Laser-Atom Interactions** Marvin H. Mittleman, 2013-11-21 In response to the explosion of theories and experiments since the appearance of the first edition the author has revised and expanded his basic text New sections include up to date discussions of multiphoton ionization and electron atom and atom atom scattering in laser fields reaffirming the work's position as the standard introduction to the field *Atomic Spectra and Collisions in External Fields* K.T. Taylor, M.H. Nayfeh, C.W. Clark, 2012-12-06 This volume contains papers associated with the conference Atomic Spectra and Collisions in External Fields II that took place July 30-31 1987 at Royal Holloway and Bedford New College The first meeting of this name was held at the National Bureau of Standards in Gaithersburg Maryland in 1984 and if any tradition can yet be said to have been established in the series it is that the proceedings be written after the conference We hope thereby to preserve some impression of the discussions that took place which in both cases were vigorous and uninhibited Both meetings happen to have convened in proximity to major developments in the field At the time of the first conference results of experimental measurements of dielectronic recombination in electron ion beams were beginning to appear These showed large discrepancies with theoretical calculations which were attributed to the effects of rather weak electric fields on the highly excited states that mediate the recombination process This conjecture gave rise to widespread concern in the plasma physics community that the representation of dielectronic recombination in existing plasma models in which it plays an important role in energy and ionization balance might be seriously in error due to neglect of the effects of electric and magnetic fields The subject of field effects on recombination processes was thus a major focus of the 1984 meeting **Wave propagation. Scattering theory** M. Sh. Birman, 1993-12-20 The papers in this collection were written primarily by members of the St Petersburg seminar in mathematical physics The seminar now run by O. A. Ladyzhenskaya was initiated in 1947 by V. I. Smirnov to whose memory this volume is dedicated The papers in the collection are devoted mainly to wave propagation processes scattering theory integrability of nonlinear equations and related problems of spectral theory of differential and integral operators The book is of interest to mathematicians working in mathematical physics and differential equations as well as to physicists studying various wave propagation processes **Self-Adjoint Extension Schemes and Modern Applications to Quantum Hamiltonians** Matteo Gallone, Alessandro Michelangeli, 2023-04-04 This book introduces and

discusses the self adjoint extension problem for symmetric operators on Hilbert space It presents the classical von Neumann and Krein Vishik Birman extension schemes both in their modern form and from a historical perspective and provides a detailed analysis of a range of applications beyond the standard pedagogical examples the latter are indexed in a final appendix for the reader s convenience Self adjointness of operators on Hilbert space representing quantum observables in particular quantum Hamiltonians is required to ensure real valued energy levels unitary evolution and more generally a self consistent theory Physical heuristics often produce candidate Hamiltonians that are only symmetric their extension to suitably larger domains of self adjointness when possible amounts to declaring additional physical states the operator must act on in order to have a consistent physics and distinct self adjoint extensions describe different physics Realising observables self adjointly is the first fundamental problem of quantum mechanical modelling The discussed applications concern models of topical relevance in modern mathematical physics currently receiving new or renewed interest in particular from the point of view of classifying self adjoint realisations of certain Hamiltonians and studying their spectral and scattering properties The analysis also addresses intermediate technical questions such as characterising the corresponding operator closures and adjoints Applications include hydrogenoid Hamiltonians Dirac Coulomb Hamiltonians models of geometric quantum confinement and transmission on degenerate Riemannian manifolds of Grushin type and models of few body quantum particles with zero range interaction Graduate students and non expert readers will benefit from a preliminary mathematical chapter collecting all the necessary pre requisites on symmetric and self adjoint operators on Hilbert space including the spectral theorem and from a further appendix presenting the emergence from physical principles of the requirement of self adjointness for observables in quantum mechanics

Quantum Dynamics of a Particle in a Tracking Chamber Rodolfo Figari, Alessandro Teta, 2013-10-22 In the original formulation of quantum mechanics the existence of a precise border between a microscopic world governed by quantum mechanics and a macroscopic world described by classical mechanics was assumed Modern theoretical and experimental physics has moved that border several times carefully investigating its definition and making available to observation larger and larger quantum systems The present book examines a paradigmatic case of the transition from quantum to classical behavior A quantum particle is revealed in a tracking chamber as a trajectory obeying the laws of classical mechanics The authors provide here a purely quantum mechanical description of this behavior thus helping to illuminate the nature of the border between the quantum and the classical

The Method of Local Perturbations in the Theory of Nanosystems Alexander M. Ermolaev, Georgiy I. Rashba, 2022-07-29 The book is devoted to the description of physical effects caused by resonant scattering of quasiparticles by isolated impurity atoms which can localize electrons and phonons in nanosystems It takes as its starting point the model of local perturbations by I M Lifshits within which short range impurity atoms are located at random points of the system The role of a single impurity center in such systems increases with decreasing size This book presents the first

ever application of the method of local perturbations to describe the physical properties of a wide range of nanosystems
Sbornik ,1993 Journal of analysis and its applications ,1982 *Canadian Journal of Physics* ,2010 Advances in
Atomic and Molecular Spectroscopy Jerzy Kwela,Ryszard Drozdowski,Tomasz J. Wąsowicz,2007 **Journal of**
Experimental and Theoretical Physics ,2007 *Bulletin of the Belgian Mathematical Society, Simon Stevin* ,2001
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