

L. Marchildon

Quantum Mechanics

From Basic Principles
to Numerical Methods
and Applications



Springer

Quantum Mechanics From Basic Principles To Numerical Methods And Applications

United States Naval Academy



Quantum Mechanics From Basic Principles To Numerical Methods And Applications:

Quantum Mechanics Louis Marchildon,2013-03-09 Whoever begins writing a book on quantum mechanics is struck by the breadth of the subject In its applications first atomic and molecular physics nuclear physics optics solid state physics theory of gases and liquids elementary particles theory almost all fields of contemporary physics are based on quantum mechanics In its formulation also which borrows from many subfields of mathematics and reaches philosophical reflection as much as modern technology The writing therefore implies at the outset making choices I first chose to write a book for those who strive to understand quantum mechanics These are physics students of course but also students and investigators in theoretical chemistry biophysics and engineering physics wishing to comprehend more deeply the computational methods they use I have thus tried to clarify delicate points rather than leave them aside Conceptual problems are treated in more detail than in most general textbooks But understanding also involves the capability to perform concrete calculations This motivates the development of numerical methods which most of the time are the only ones that yield quantitative results I chose also to present quantum mechanics as a self contained theory The exposition largely develops around the central notion of state space

Computational Physics Devang Patil,2025-02-20 Computational Physics Basic Concepts serves as an indispensable guide for students researchers and enthusiasts exploring the intersection of physics and computational methods This book offers a comprehensive exploration of the fundamental principles of computational physics providing a solid foundation to tackle complex problems in various branches of physics The book begins by elucidating the foundational principles and theoretical underpinnings essential for effective computational simulations It covers a variety of numerical techniques including finite difference methods and Monte Carlo simulations with practical examples and applications Recognizing the importance of coding skills it includes a section on programming tailored for physicists teaching readers to implement numerical algorithms using popular programming languages Computational Physics Basic Concepts extends its coverage to diverse branches of physics such as classical mechanics electromagnetism quantum mechanics and statistical physics illustrating the versatility of computational techniques Each chapter includes problem solving exercises designed to reinforce understanding and enhance computational skills Techniques for data visualization and interpretation are discussed enabling effective communication of findings The book also shares practical tips and best practices to optimize computational workflows and avoid common pitfalls Whether you're a student new to computational physics or a seasoned researcher Computational Physics Basic Concepts provides a thorough and accessible resource for mastering the essential elements of this dynamic field

The Non-Equilibrium Green's Function Method for Nanoscale Device Simulation Mahdi Pourfath,2014-07-05 For modeling the transport of carriers in nanoscale devices a Green function formalism is the most accurate approach Due to the complexity of the formalism one should have a deep understanding of the underlying principles and use smart approximations and numerical methods for solving the kinetic equations at a reasonable computational time In

this book the required concepts from quantum and statistical mechanics and numerical methods for calculating Green functions are presented The Green function is studied in detail for systems both under equilibrium and under nonequilibrium conditions Because the formalism enables rigorous modeling of different scattering mechanisms in terms of self energies but an exact evaluation of self energies for realistic systems is not possible their approximation and inclusion in the quantum kinetic equations of the Green functions are elaborated All the elements of the kinetic equations which are the device Hamiltonian contact self energies and scattering self energies are examined and efficient methods for their evaluation are explained Finally the application of these methods to study novel electronic devices such as nanotubes graphene Si nanowires and low dimensional thermoelectric devices and photodetectors are discussed

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