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Methods in Theoretical Quantum Optics

STEPHEN M. BARNETT
and
PAUL M. RADMORE



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Methods In Theoretical Quantum Optics

R Bogdan



Methods In Theoretical Quantum Optics:

Methods in Theoretical Quantum Optics Stephen Barnett, Paul M. Radmore, 2002-11-14 This work presents the mathematical methods widely used by workers in the field of quantum optics. It deals with the physical assumptions which lead to the models and approximations employed but the main purpose of the text is to give a firm grounding in those techniques needed to derive analytical solutions to problems.

Methods in Theoretical Quantum Optics Stephen M. Barnett, P. M. Radmore, 1997 This book is aimed at those readers who already have some knowledge of mathematical methods and have also been introduced to the basic ideas of quantum optics. It should be attractive to students who have already explored one of the more introductory texts such as Loudon's *The quantum theory of light* 2^e 1983 OUP and are seeking to acquire the mathematical skills used in real problems. This book is not primarily about the physics of quantum optics but rather presents the mathematical methods widely used by workers in this field. There is no comparable book which covers either the range or the depth of mathematical techniques.

Methods in Theoretical Quantum Optics Stephen M. Barnett, Paul M. Radmore, 2002 Coherent interactions Operators and states Quantum statistics of fields Dissipative processes Dressed states Appendix Kronecker delta and the permutation symbol The Dirac delta function Special functions Quadrature eigenstates Operator ordering theorems The pole approximation Principal part integrals Contour integrals Laplace transforms and the final value theorem Operator ordering in the Heisenberg equations The method of characteristics for partial differential equations Transformation of master equations into partial differential equations Fokker Planck equations Cubic equations

Mathematical Methods of Quantum Optics Ravinder R. Puri, 2012-11-02 This book is intended to provide a much needed systematic exposition of the mathematical methods of quantum optics something that is not found in existing books. It is primarily addressed to researchers who are new to the field. The emphasis therefore is on a simple and self-contained yet concise presentation. It provides a unified view of the concepts and the methods of quantum optics and aims to prepare a reader to handle specific situations. A number of formulae scattered throughout the scientific literature are also brought together in a natural manner. The broad plan of the book is to introduce first the basic physics and mathematical concepts then to apply them to construct the model Hamiltonians of the atom field interaction and the master equation for an atom field system interacting with the environment and to analyze the equations so obtained. A brief description of the contents of the chapters is as follows.

Theory of Nonclassical States of Light V.V. Dodonov, V.I. Man'ko, 2003-03-13 The term nonclassical states refers to the quantum states that cannot be produced in the usual sources of light such as lasers or lamps rather than those requiring more sophisticated apparatus for their production. *Theory of Nonclassical States of Light* describes the current status of the theory of nonclassical states of light including many new and important results as well as introductory material and the history of the subject. The authors concentrate on the most important types of nonclassical states namely squeezed even odd Schrodinger cat and binomial states including their generalizations. However a review of

other types of nonclassical is also given in the introduction and methods for generating nonclassical states on various processes of light matter interaction their phase space description and the time evolution of nonclassical states in these processes is presented in separate chapters This contributed volume contains all of the necessary formulae and references required to gain a good understanding of the principles and current status of the field It will provide a valuable information resource for advanced students and researchers in quantum physics

The Theory of Open Quantum Systems Heinz-Peter Breuer, Francesco Petruccione, 2002 This book treats the central physical concepts and mathematical techniques used to investigate the dynamics of open quantum systems To provide a self contained presentation the text begins with a survey of classical probability theory and with an introduction into the foundations of quantum mechanics with particular emphasis on its statistical interpretation The fundamentals of density matrix theory quantum Markov processes and dynamical semigroups are developed The most important master equations used in quantum optics and in the theory of quantum Brownian motion are applied to the study of many examples Special attention is paid to the theory of environment induced decoherence its role in the dynamical description of the measurement process and to the experimental observation of decohering Schrodinger cat states The book includes the modern formulation of open quantum systems in terms of stochastic processes in Hilbert space Stochastic wave function methods and Monte Carlo algorithms are designed and applied to important examples from quantum optics and atomic physics such as Levy statistics in the laser cooling of atoms and the damped Jaynes Cummings model The basic features of the non Markovian quantum behaviour of open systems are examined on the basis of projection operator techniques In addition the book expounds the relativistic theory of quantum measurements and discusses several examples from a unified perspective e g non local measurements and quantum teleportation Influence functional and super operator techniques are employed to study the density matrix theory in quantum electrodynamics and applications to the destruction of quantum coherence are presented The text addresses graduate students and lecturers in physics and applied mathematics as well as researchers with interests in fundamental questions in quantum mechanics and its applications Many analytical methods and computer simulation techniques are developed and illustrated with the help of numerous specific examples Only a basic understanding of quantum mechanics and of elementary concepts of probability theory is assumed

Statistical Methods in Quantum Optics 1 Howard J. Carmichael, 2013-04-17 As a graduate student working in quantum optics I encountered the question that might be taken as the theme of this book The question definitely arose at that time though it was not yet very clearly defined there was simply some deep irritation caused by the work I was doing something quite fundamental I did not understand Of course so many things are not understood when one is a graduate student However my nagging question was not a technical issue not merely a mathematical concept that was difficult to grasp It was a sense that certain elementary notions that are accepted as starting points for work in quantum optics somehow had no fundamental foundation no identifiable root My inclination was to mine physics vertically and here was a subject whose

tunnels were dug horizontally There were branches certainly going up and going down Nonetheless something major in the downwards direction was missing at least in my understanding no doubt others understood the connections downwards very well In retrospect I can identify the irritation Quantum optics deals primarily with dynamics quantum dynamics and in doing so makes extensive use of words like quantum fluctuations and quantum noise The words seem harmless enough Surely the ideas behind them are quite clear after all quantum mechanics is a statistical theory and in its dynamical aspects it is therefore a theory of fluctuations But there was my problem Nothing in Schrodinger s equation fluctuates Phase Space Methods for Degenerate Quantum Gases Bryan J. Dalton, John Jeffers, Stephen M. Barnett, 2014-11-13 Recent experimental progress has enabled cold atomic gases to be studied at nano kelvin temperatures creating new states of matter where quantum degeneracy occurs Bose Einstein condensates and degenerate Fermi gases Such quantum states are of macroscopic dimensions This book presents the phase space theory approach for treating the physics of degenerate quantum gases an approach already widely used in quantum optics However degenerate quantum gases involve massive bosonic and fermionic atoms not massless photons The book begins with a review of Fock states for systems of identical atoms where large numbers of atoms occupy the various single particle states or modes First separate modes are considered and here the quantum density operator is represented by a phase space distribution function of phase space variables which replace mode annihilation creation operators the dynamical equation for the density operator determines a Fokker Planck equation for the distribution function and measurable quantities such as quantum correlation functions are given as phase space integrals Finally the phase space variables are replaced by time dependent stochastic variables satisfying Langevin stochastic equations obtained from the Fokker Planck equation with stochastic averages giving the measurable quantities Second a quantum field approach is treated the density operator being represented by a distribution functional of field functions which replace field annihilation creation operators the distribution functional satisfying a functional FPE etc A novel feature of this book is that the phase space variables for fermions are Grassmann variables not c numbers However we show that Grassmann distribution functions and functionals still provide equations for obtaining both analytic and numerical solutions The book includes the necessary mathematics for Grassmann calculus and functional calculus and detailed derivations of key results are provided **Quantum Optical Processes** Sintayehu Tesfa, 2021-02-04 This book is a self contained guide to the world of quantum optical processes which addresses different aspects relevant in quantum optics and quantum information The basic descriptions measurement techniques possible sources nonclassical features practical implications and applications of the quantization of light and its interaction with matter are explored The observed quantum properties such as coherent superposition entanglement nonlocality decoherence and no cloning are discussed The quantum optical processes such as continuous variable entanglement swapping teleportation and telecloning from which follow the practical aspects such as quantum gate operations cryptography and error correction are considered In turn the advantages and

inherent challenges including the foresight in implementing continuous variable quantum communication and computation protocols are highlighted. The author gives a concise background with corresponding applications, the necessary mathematical derivation, simplified examples, illustrations and demonstrations, and the relative interpretations and outlooks. This book is intended to serve a multi-disciplinary readership, namely the atomic physics and quantum optics communities who seek to extend their research to applications, especially to the field of quantum information processing, as well as the theoretical quantum information community who builds up research on physically realizable systems such as optical setups and various atomic schemes. The content of this book also attracts other communities such as photonics who seeks to link research with continuous variable quantum information processing.

Theory and Applications of the Poincaré Group Sibel Başkal, Young Suh Kim, Marilyn E. Noz, 2024-11-14. This book is intended mainly as a teaching tool directed toward those who desire a deeper understanding of group theory in terms of examples applicable to the physical world and or of the physical world in terms of the symmetry properties which can best be formulated in terms of group theory. Both advanced students and scholars interested in the relationship between group theory and physics will find it instructive. In particular those engaged in high energy physics and foundations of quantum mechanics will find this book rich in illustrative examples of relativistic quantum mechanics. This new edition contains four new chapters two of which are consistent with Dirac's aim to combine the important developments in physics in the twentieth century, namely quantum mechanics and special relativity. Moreover, these new chapters also discuss various aspects of classical and quantum optics that are now understood to be interrelated. Most of the original chapters have been updated either with new material added or in some instances reinterpretation of the original. The order of the chapters has been rearranged to create a more cohesive presentation. The original purpose of the first edition, namely to present examples to which physics students and researchers can relate, has not been altered.

Quantum Theory of Near-Field Electrodynamics Ole Keller, 2012-02-02. Quantum Theory of Near field Electrodynamics gives a self contained account of the fundamental theory of field-matter interaction on a subwavelength scale. The quantum physical behavior of matter, atoms and mesoscopic media in both classical and quantum fields is treated. The role of local field effects and nonlocal electrodynamics and the tight links to the theory of spatial photon localization are emphasized. The book may serve as a reference work in the field and is of general interest for physicists working in quantum optics, mesoscopic electrodynamics and physical optics. The macroscopic and microscopic classical theories form a good starting point for the quantum approach and these theories are presented in a manner appropriate for graduate students entering near field optics.

Quantum Mechanics Gennaro Auletta, Mauro Fortunato, Giorgio Parisi, 2009-04-16. A strong narrative and over 300 worked problems and proofs lead the student from experiment through general principles of the theory to modern applications. Advanced undergraduate and graduate students will benefit from this perspective on the fundamental physical paradigm and its applications.

Engineering Quantum Mechanics Doyeol Ahn, Seoung-Hwan

Park,2011-08-04 There has been growing interest in the model of semiconductor lasers with non Markovian relaxation Introducing senior and graduate students and research scientists to quantum mechanics concepts which are becoming an essential tool in modern engineering Engineering Quantum Mechanics develops a non Markovian model for the optical gain of semiconductor taking into account the rigorous electronic band structure and the non Markovian relaxation using the quantum statistical reduced density operator formalism Example programs based on Fortran 77 are provided for band structures of zinc blende and wurtzite quantum wells *Neutron Interferometry* Helmut Rauch,Samuel A. Werner,2000 The quantum interference of DeBroglie matter waves is probably one of the most startling and fundamental aspect of quantum mechanics It continues to tax our imaginations and leads us to new experimental windows on nature Quantum interference phenomena are vividly displayed in the wide assembly of neutron interferometry experiments which have been carried out since the first demonstration of a perfect silicon crystal interferometer in 1974 Since the neutron experiences all four fundamental forces of nature strong weak electromagnetic and gravitational interferometry with neutrons provides a fertile testing ground for theory and precision measurements Many Gedanken experiments of quantum mechanics have become real due to neutron interferometry This book provides the reader with a detailed account of neutron interferometry experiments The basic ideas and experiments related to coherence properties of matter waves and various post selection criteria gravitationally induced phase shifts Berry s geometrical phase spinor symmetry and spin superposition Aharonov Bohm topological interference effects and the neutron version of the Sagnac effect are presented in a self contained and pedagogical way Interferometry with perfect crystals artificial lattices and spin echo systems are topics of this book It includes the theoretical motivations as well as connections to other areas of experimental physics such as quantum optics nuclear physics gravitation and atom interferometry The book is written in a style that will be suitable at the beginning graduate level and will excite many students and researchers in neutron physics quantum optics and atomic physics Lecturers teaching courses in modern physics and quantum mechanics will find a number of interesting and historic experiments they may want to include in their lectures **Emergence Of The Quantum From The Classical:**

Mathematical Aspects Of Quantum Processes Maurice A De Gosson,2017-11-10 The emergence of quantum mechanics from classical world mechanics is now a well established theme in mathematical physics This book demonstrates that quantum mechanics can indeed be viewed as a refinement of Hamiltonian mechanics and builds on the work of George Mackey in relation to their mathematical foundations Additionally when looking at the differences with classical mechanics quantum mechanics crucially depends on the value of Planck s constant h Recent cosmological observations tend to indicate that not only the fine structure constant but also h might have varied in both time and space since the Big Bang We explore the mathematical and physical consequences of a variation of h surprisingly we see that a decrease of h leads to transitions from the quantum to the classical *Emergence of the Quantum from the Classical* provides help to undergraduate and

graduate students of mathematics physics and quantum theory looking to advance into research in the field

Nanophotonics and Plasmonics Dr. Ching Eng (Jason) Png, Dr. Yuriy Akimov, 2017-08-21 This book provides a first integrated view of nanophotonics and plasmonics covering the use of dielectric semiconductor and metal nanostructures to manipulate light at the nanometer scale The presentation highlights similarities and advantages and shows the common underlying physics targets and methodologies used for different materials optically transparent materials for nanophotonics vs opaque materials for plasmonics Ultimately the goal is to provide a basis for developing a unified platform for both fields In addition to the fundamentals and detailed theoretical background the book showcases the main device applications Ching Eng Jason Png is Director of the Electronics and Photonics Department at the Institute of High Performance Computing Agency for Science Technology and Research Singapore Yuriy A Akimov is a scientist in the Electronics and Photonics Department at the Institute of High Performance Computing Agency for Science Technology and Research Singapore

Quantum Information and Coherence Erika Andersson, Patrik Öhberg, 2014-07-08 This book offers an introduction to ten key topics in quantum information science and quantum coherent phenomena aimed at graduate student level The chapters cover some of the most recent developments in this dynamic research field where theoretical and experimental physics combined with computer science provide a fascinating arena for groundbreaking new concepts in information processing The book addresses both the theoretical and experimental aspects of the subject and clearly demonstrates how progress in experimental techniques has stimulated a great deal of theoretical effort and vice versa Experiments are shifting from simply preparing and measuring quantum states to controlling and manipulating them and the book outlines how the first real applications notably quantum key distribution for secure communication are starting to emerge The chapters cover quantum retrodiction ultracold quantum gases in optical lattices optomechanics quantum algorithms quantum key distribution quantum control based on measurement orbital angular momentum of light entanglement theory trapped ions and quantum metrology and open quantum systems subject to decoherence The contributing authors have been chosen not just on the basis of their scientific expertise but also because of their ability to offer pedagogical and well written

contributions which will be of interest to students and established researchers **How And Where To Go Beyond The Standard Model - Proceedings Of The International School Of Subnuclear Physics** Antonino Zichichi, 2007-03-27 This volume is a collection of lectures given during the 42nd Course of the International School of Subnuclear Physics The contributions cover the most recent advances in theoretical physics and the latest results from current experimental facilities In line with one of the aims of the school which is to encourage and promote young physicists to achieve recognition at an international level the students recognized for their research excellence were given the opportunity to publish their work in this volume Their contributions are joined by those from many distinguished lecturers in the field from around the world

Time-dependent Quantum Mechanics Of Two-level Systems James P Lavine, 2018-11-14 With both industrial and teaching

experience the author explains the effects of time dependence in systems with two energy levels The book starts with time independent interactions and goes on to treat interactions with time dependent electric and magnetic fields Complete derivations are presented for each case so the reader understands how the solutions are found Both closed form and numerical solutions are treated and the calculations are compared with experimental data from the literature Numerous plots are provided to show how the solutions depend on the parameters of the interactions The book builds upon an undergraduate course in quantum mechanics and is useful for readers interested in magnetic resonance and quantum optics In addition this book is ideal for self study by students or researchers starting on two level systems The detailed derivations and plots should ease readers into the study of two level systems in a wide variety of settings

Unconventional Computation Christian S. Calude, Masami Hagiya, Kenichi Morita, Grzegorz Rozenberg, Jonathan Timmis, 2010-06 This book constitutes the refereed proceedings of the 9th International Conference on Unconventional Computation UC 2010 held in Tokyo Japan in June 2010 The 15 revised full papers presented together with 4 extended abstracts of invited talks and 8 abstracts of posters were carefully reviewed and selected from numerous submissions The papers are devoted to all aspects of unconventional computation theory as well as experiments and applications Typical topics are natural computing including quantum cellular molecular membrane neural and evolutionary computing as well as chaos and dynamical system based computing and various proposals for computational mechanisms that go beyond the Turing model

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