

Walter Dittrich · Martin Reuter

Classical and Quantum Dynamics

From Classical Paths to Path Integrals

Fifth Edition

 Springer

Clabical And Quantum Dynamics From Clabical Paths To Path Integrals

Christian Grosche, Frank Steiner



Classical And Quantum Dynamics From Classical Paths To Path Integrals:

Classical and Quantum Dynamics Walter Dittrich, Martin Reuter, 2012-12-06 In the past 10 to 15 years the quantum leap in understanding of nonlinear dynamics has radically changed the frame of reference of physicists contemplating such systems This book treats classical and quantum mechanics using an approach as introduced by nonlinear Hamiltonian dynamics and path integral methods It is written for graduate students who want to become familiar with the more advanced computational strategies in classical and quantum dynamics Therefore worked examples comprise a large part of the text While the first half of the book lays the groundwork for a standard course the second half with its detailed treatment of the time dependent oscillator classical and quantum Chern Simons mechanics the Maslov anomaly and the Berry phase will acquaint the reader with modern topological methods that have not as yet found their way into the textbook literature

Path Integrals in Quantum Mechanics Jean Zinn-Justin, 2005 The main goal of this book is to familiarize the reader with a tool the path integral that not only offers an alternative point of view on quantum mechanics but more importantly under a generalized form has also become the key to a deeper understanding of quantum field theory and its applications extending from particle physics to phase transitions or properties of quantum gases Path integrals are mathematical objects that can be considered as generalizations to an infinite number of variables represented by paths of usual integrals They share the algebraic properties of usual integrals but have new properties from the viewpoint of analysis They are powerful tools for the study of quantum mechanics since they emphasize very explicitly the correspondence between classical and quantum mechanics Physical quantities are expressed as averages over all possible paths but in the semi classical limit the leading contributions come from paths close to classical paths Thus path integrals lead to an intuitive understanding of physical quantities in the semi classical limit as well as simple calculations of such quantities This observation can be illustrated with scattering processes spectral properties or barrier penetration effects Even though the formulation of quantum mechanics based on path integrals seems mathematically more complicated than the usual formulation based on partial differential equations the path integral formulations well adapted to systems with many degrees of freedom where a formalism of Schrodinger type is much less useful It allows simple construction of a many body theory both for bosons and fermions

Classical and Quantum Dynamics Walter Dittrich, 1994 *Handbook of Feynman Path Integrals* Christian Grosche, Frank Steiner, 1998-06-22 The Handbook of Feynman Path Integrals appears just fifty years after Richard Feynman published his pioneering paper in 1948 entitled Space Time Approach to Non Relativistic Quantum Mechanics in which he introduced his new formulation of quantum mechanics in terms of path integrals The book presents for the first time a comprehensive table of Feynman path integrals together with an extensive list of references it will serve the reader as a thorough introduction to the theory of path integrals As a reference book it is unique in its scope and will be essential for many physicists chemists and mathematicians working in different areas of research **Classical, Semiclassical and Quantum Dynamics in**

Atoms Harald Friedrich,1997-06-19 Content Description Includes bibliographical references and index **Classical and Quantum Dynamics ...** Dittrich,1994 *Mathematical Reviews* ,2002 *Boston Studies in the Philosophy of Science* ,1997 **Bridging Quantum and Classical: A Path Integral Journey** Chopra,2024-06-11 **Path Integrals In Quantum Mechanics, Statistics, Polymer Physics, And Financial Markets (5th Edition)** Hagen Kleinert,2009-05-18 This is the fifth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have been made possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s time sliced formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a new nonholonomic mapping principle carrying physical laws in flat spacetime to spacetimes with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative coordinate independent definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely products of distributions The powerful Feynman Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent results The convergence is uniform from weak to strong couplings opening a way to precise evaluations of analytically unsolvable path integrals in the strong coupling regime where they describe critical phenomena Tunneling processes are treated in detail with applications to the lifetimes of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A variational treatment extends the range of validity to small barriers A corresponding extension of the large order perturbation theory now also applies to small orders Special attention is devoted to path integrals with topological restrictions needed to understand the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black Scholes formula for option prices are developed which account for the fact recently experienced in the world markets that large fluctuations occur much more frequently than in Gaussian distributions *Stochastic and Quantum Dynamics of Biomolecular Systems* Christopher Bernido,Maria Victoria Carpio-Bernido,2008-06-25 Conference Location and Date Jagna Bohol Philippines 3 5 January 2008 *Monte Carlo Path-integral Methods for Vibrational-rotational Partition Functions* Vanessa Marie Audette Lynch,2005 **Dirac and Feynman** Ranabir Dutt,Asim K. Ray,1993 Contributed articles *Journal of the Physical Society of Japan* Nihon Butsuri Gakkai,2004 **Canadian Journal of Physics** ,2000-07 Paperbound Books in Print 1995 Reed Reference

Publishing, Reference Reed, 1995-12 *Quantum Mechanics II* Rubin H. Landau, 1996 This revised and updated textbook has been designed for advanced quantum physics courses It includes discussion of scattering and integral quantum mechanics relativistic quantum mechanics quantum fields and many body theory [Feynman Integral and Random Dynamics in Quantum Physics](#) Z. Haba, 2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics

Quantum Evolution James E. Bayfield, 1999-09-15 A unique introduction to the concepts of quantum mechanics Quantum Evolution addresses the present status of time dependent quantum mechanics for few body systems with electromagnetic interactions It bridges between the quantum mechanics of stationary quantum systems and a number of recent advanced theoretical treatises on various aspects of quantum mechanics The focus is on strongly quantum and semi classical systems including the quantum manifestations of orderly and chaotic nonlinear classical dynamics [Subject Guide to Books in Print](#), 1996

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