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Quantum Mechanics and Path Integrals

2010-07-21

looks at quantum mechanics covering such topics as perturbation method statistical mechanics path integrals and quantum electrodynamics

Path Integrals and Coherent States of SU(2) and SU(1,1)

1992

the authors examine several topical subjects commencing with a general introduction to path integrals in quantum mechanics and the group theoretical backgrounds for path integrals applications of harmonic analysis polar coordinate formulation various techniques and path integrals on su 2 and su 1 1 are discussed soluble examples presented include particle flux system a pulsed oscillator magnetic monopole the coulomb problem in curved space and others the second part deals with the su 2 coherent states and their applications construction and generalization of the su 2 coherent states formulation of coherent path integrals for spin and unitary spin and semiclassical quantization are presented applications are made to the study of quantum fluctuation the nonlinear field model and phase holonomy the final chapters present the theory of the su 1 1 coherent states and their applications the radial coulomb problem the morse oscillator and the large n approximation are discussed applications to problems in quantum optics such as squeezed states interaction with the squeezed vacuum states and phase operator formalism are also included this book will be useful as an introduction to the subject as well as a valuable work of reference

Quantum Mechanics and Path Integrals

1965

the fundamental concepts of quantum mechanics the quantum mechanical law of motion developing the concepts with special examples the schrödinger description of quantum mechanics measurements and operators the perturbation method in quantum mechanics transition elements harmonic oscillators quantum electrodynamics statistical mechanics the variational method other problems in probability

Path Integrals for Stochastic Processes

2013

this book provides an introductory albeit solid presentation of path integration techniques as applied to the field of stochastic processes the subject began with the work of wiener during the 1920 s corresponding to a sum over random trajectories anticipating by two decades feynman s famous work on the path integral representation of quantum mechanics however the true trigger for the application of these techniques within nonequilibrium statistical mechanics and stochastic processes was the work of onsager and machlup in the early 1950 s the last quarter of the 20th century has witnessed a growing interest in this technique and its application in several branches of research even outside physics for instance in economy the aim of this book is to offer a brief but complete presentation of the path integral approach to stochastic processes it could be used as an advanced textbook for graduate students and even ambitious undergraduates in physics it describes how to apply these techniques for both markov and non markov processes the path expansion or semiclassical approximation is discussed and adapted to the stochastic context also some examples of nonlinear transformations and some applications are discussed as well as examples of rather unusual applications an extensive bibliography is included the book is detailed enough to capture the interest of the curious reader and complete enough to provide a solid background to explore the research literature and start exploiting the learned material in real situations

Mathematical Feynman Path Integrals And Their Applications (Second Edition)

2021-11-16

feynman path integrals are ubiquitous in quantum physics even if a large part of the scientific community still considers them as a heuristic tool that lacks a sound mathematical definition our book aims to refute this prejudice providing an extensive and self contained description of the mathematical theory of feynman path integration from the earlier attempts to the latest developments as well as its applications to quantum mechanics this second edition presents a detailed discussion of the general theory of complex integration on infinite dimensional spaces providing on one hand a unified view of the various existing approaches to the mathematical construction of feynman path integrals and on the other hand a connection with the classical theory of stochastic processes moreover new chapters containing recent applications to several dynamical systems have been added this book bridges between the realms of stochastic analysis and the theory of feynman path integration it is accessible to both mathematicians and physicists

Path Integrals in Quantum Mechanics

2010-07-08

quantum field theory is hardly comprehensible without path integrals the goal of this book is to introduce students to this topic within the context of ordinary quantum mechanics and non relativistic many body theory before facing the problems associated with the more involved quantum field theory formalism

Path Integrals and Hamiltonians

2014-03-27

a succinct introduction to the powerful and flexible combination of hamiltonian operators and path integrals in quantum mathematics with a practical emphasis on methodological and mathematical aspects essential reading for researchers and graduate students in physics and engineers whose work touches on quantum mechanics

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets

2009

topological restrictions these are relevant to the understanding of 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 that large market fluctuations occur much more frequently than in gaussian distributions book jacket

Mathematical Theory of Feynman Path Integrals

2008-05-06

the 2nd edition of lnm 523 is based on the two first authors mathematical approach of this theory presented in its 1st edition in 1976 an entire new chapter on the current forefront of research has been added except for this new chapter and the correction of a few misprints the basic material and presentation of the first edition has been maintained at the end of each chapter the reader will also find notes with further bibliographical information

Path Integrals and Quantum Processes

2014-02-19

graduate level systematic presentation of path integral approach to calculating transition elements partition functions and source functionals covers grassmann variables field and gauge field theory perturbation theory and nonperturbative results 1992 edition

Path Integrals in Field Theory

2012-12-06

concise textbook intended as a primer on path integral formalism both in classical and quantum field theories although emphasis is on the latter it is ideally suited as an intensive one semester course delivering the basics needed by readers to follow developments in field theory path integrals in field theory paves the way for both more rigorous studies in fundamental mathematical issues as well as for applications in hadron particle and nuclear physics thus addressing students in mathematical and theoretical physics alike assuming some background in relativistic quantum theory but none in field theory it complements the authors monograph fields symmetries and quarks springer 1999

Continuous Quantum Measurements and Path Integrals

2017-10-19

advances in technology are taking the accuracy of macroscopic as well as microscopic measurements close to the quantum limit for example in the attempts to detect gravitational waves interest in continuous quantum measurements has therefore grown considerably in recent years continuous quantum measurements and path integrals examines these measurements using feynman path integrals the path integral theory is developed to provide formulae for concrete physical effects the main conclusion drawn

from the theory is that an uncertainty principle exists for processes in addition to the familiar one for states this implies that a continuous measurement has an optimal accuracy a balance between inefficient error and large quantum fluctuations quantum noise a well known expert in the field the author concentrates on the physical and conceptual side of the subject rather than the mathematical

Quantum Mechanics and Path Integrals [by] R. P. Feynman [and] A. R. Hibbs

1965

path integrals in physics volume i stochastic processes and quantum mechanics presents the fundamentals of path integrals both the wiener and feynman type and their many applications in physics accessible to a broad community of theoretical physicists the book deals with systems possessing a infinite number of degrees in freedom it discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them it describes in detail various applications including systems with grassmann variables each chapter is self contained and can be considered as an independent textbook the book provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers

Mathematical Feynman Path Integrals and Their Applications

2018-10-03

this text on quantum mechanics begins by covering all the main topics of an introduction to the subject it then concentrates on newer developments in particular it continues with the perturbative solution of the schrödinger equation for various potentials and thereafter with the introduction and evaluation of their path integral counterparts considerations of the large order behavior of the perturbation expansions show that in most applications these are asymptotic expansions the parallel consideration of path integrals requires the evaluation of these around periodic classical configurations the fluctuation equations about which lead back to specific wave equations the period of the classical configurations is related to temperature and permits transitions to the thermal domain to be classified as phase transitions in this second edition of the text important applications and numerous examples have been added in particular the chapter on the coulomb potential has been extended to include an introduction to chemical bonds the chapter on periodic potentials has been supplemented by a section on the band theory of metals and semiconductors and in the chapter on large order behavior a section has been added illustrating

the success of converging factors in the evaluation of asymptotic expansions detailed calculations permit the reader to follow every step

Path Integrals in Physics

2012-07-19

the feynman path integrals are becoming increasingly important in the applications of quantum mechanics and field theory the path integral formulation of quantum anomalies i e the quantum breaking of certain symmetries can now cover all the known quantum anomalies in a coherent manner in this book the authors provide an introduction to the path integral method in quantum field theory and its applications to the analyses of quantum anomalies no previous knowledge of field theory beyond advanced undergraduate quantum mechanics is assumed the book provides the first coherent introductory treatment of the path integral formulation of chiral and weyl anomalies with applications to gauge theory in two and four dimensions conformal field theory and string theory explicit and elementary path integral calculations of most of the quantum anomalies covered are given the conceptual basis of the path integral bosonization in two dimensional theory which may have applications to condensed matter theory for example is clarified the book also covers the recent interesting developments in the treatment of fermions and chiral anomalies in lattice gauge theory

Introduction to Quantum Mechanics

2004-04-29

this book contains the invited contributions to the 6th international conference on path integrals from pev to tev held in florence in 1998 the conference devoted to functional integration brought together many physicists with interests ranging from elementary particles to nuclear solid state liquid state polymer and complex systems physics the variety of topics is reflected in the book which is a unique collection of papers on manifold applications of functional methods in several areas of physics

Path Integrals and Quantum Anomalies

1999-04-01

this book aims to provide a quick pedagogical introduction to path integrals it contains original material that never before

has appeared in a book for example the path integrals for the wigner functions and for classical mechanics this application to classical mechanics connects different fields like hamiltonian mechanics and differential geometry so the book is suitable for students and researchers from various disciplines

Path Integrals From Pev To Tev: 50 Years After Feynman's Paper - Proceedings Of The Sixth International Conference

2002

this book provides an ideal introduction to the use of feynman path integrals in the fields of quantum mechanics and statistical physics it is written for graduate students and researchers in physics mathematical physics applied mathematics as well as chemistry the material is presented in an accessible manner for readers with little knowledge of quantum mechanics and no prior exposure to path integrals it begins with elementary concepts and a review of quantum mechanics that gradually builds the framework for the feynman path integrals and how they are applied to problems in quantum mechanics and statistical physics problem sets throughout the book allow readers to test their understanding and reinforce the explanations of the theory in real situations features comprehensive and rigorous yet presents an easy to understand approach applicable to a wide range of disciplines accessible to those with little or basic mathematical understanding

Path-integral methods and their applications

1984

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 advancedcomputational 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 willacquaint the reader with modern topological methods that have not as yet found their way into the textbook literature

Quantum Mechanics and Path Integrals

2015-11-18

this is the third significantly 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 become possible by two major advances the first is a new euclidean path integral formula which increases the restricted range of applicability of feynman s famous formula to include singular attractive 1 r and 1 r2 potentials the second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces 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 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 integrals over 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 expansions the convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals tunneling processes are treated in detail the results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions a new variational treatment extends the range of validity of previous tunneling theories from large to small barriers a corresponding extension of large order perturbation theory also applies now to small orders special attention is devoted to path integrals with topological restrictions these are relevant to the understanding of 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 given which account for the fact that large market fluctuations occur much more frequently than in the commonly used gaussian distributions the author s other book on critical properties of Φ4 theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions request inspection copy

Path Integrals for Pedestrians

2021-04-15

traditionally field theory is taught through canonical quantization with a heavy emphasis on high energy physics however the techniques of field theory are applicable as well and are extensively used in various other areas of physics such as consdensed matter nuclear physics and statistical mechanics the path integral approach brings out this feature most clearly in this book the path integral approach is developed in detail completely within the context of quantum mechanics subsequently it is applied to various areas of physics

Feynman Path Integrals in Quantum Mechanics and Statistical Physics

2012-12-06

the path integral approach has proved extremely useful for the understanding of the most complex problems in quantum field theory cosmology and condensed matter physics path integrals in physics volume ii quantum field theory statistical physics and other modern applications covers the fundamentals of path integrals both the wiener and feynman types and their many applications in physics the book deals with systems that have an infinite number of degrees of freedom it discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them each chapter is self contained and can be considered as an independent textbook it provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers

Classical and Quantum Dynamics

2004-03-05

after a consideration of basic quantum mechanics this introduction aims at a side by side treatment of fundamental applications of the schr dinger equation on the one hand and the applications of the path integral on the other different from traditional texts and using a systematic perturbation method the solution of schr dinger equations includes also those with anharmonic oscillator potentials periodic potentials screened coulomb potentials and a typical singular potential as well as the investigation of the large order behavior of the perturbation series on the path integral side after introduction of the basic ideas the expansion around classical configurations in euclidean time such as instantons is considered and the method is applied in particular to anharmonic oscillator and periodic potentials numerous other aspects are treated on the way thus providing the reader an instructive overview over diverse quantum mechanical phenomena e g many other potentials green s functions comparison with wkb calculation of lifetimes and sojourn times derivation of generating functions the coulomb problem

in various coordinates etc all calculations are given in detail so that the reader can follow every step

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets

1993

providing a self contained step by step explanation this book provides a guide to path integral methods for readers with a basic knowledge of quantum mechanics

Field Theory

2018-10-08

in this second edition a comprehensive review is given for path integration in two and three dimensional homogeneous spaces of constant and non constant curvature including an enumeration of all the corresponding coordinate systems which allow separation of variables in the hamiltonian and in the path integral the corresponding path integral solutions are presented as a tabulation proposals concerning interbasis expansions for spheroidal coordinate systems are also given in particular the cases of non constant curvature darboux spaces are new in this edition the volume also contains results on the numerical study of the properties of several integrable billiard systems in compact domains i e rectangles parallelepipeds circles and spheres in two and three dimensional flat and hyperbolic spaces in particular the discussions of integrable billiards in circles and spheres flat and hyperbolic spaces and in three dimensions are new in comparison to the first edition in addition an overview is presented on some recent achievements in the theory of the selberg trace formula on riemann surfaces its super generalization their use in mathematical physics and string theory and some further results derived from the selberg super trace formula

Path Integrals □□□ New Trends and Perspectives

2006

this book proves that feynman s original definition of the path integral actually converges to the fundamental solution of the schrödinger equation at least in the short term if the potential is differentiable sufficiently many times and its derivatives of order equal to or higher than two are bounded the semi classical asymptotic formula up to the second term of the fundamental

solution is also proved by a method different from that of birkhoff a bound of the remainder term is also proved the feynman path integral is a method of quantization using the lagrangian function whereas schrödinger s quantization uses the hamiltonian function these two methods are believed to be equivalent but equivalence is not fully proved mathematically because compared with schrödinger s method there is still much to be done concerning rigorous mathematical treatment of feynman s method feynman himself defined a path integral as the limit of a sequence of integrals over finite dimensional spaces which is obtained by dividing the time interval into small pieces this method is called the time slicing approximation method or the time slicing method this book consists of two parts part i is the main part the time slicing method is performed step by step in detail in part i the time interval is divided into small pieces corresponding to each division a finite dimensional integral is constructed following feynman s famous paper this finite dimensional integral is not absolutely convergent owing to the assumption of the potential it is an oscillatory integral the oscillatory integral techniques developed in the theory of partial differential equations are applied to it it turns out that the finite dimensional integral gives a finite definite value the stationary phase method is applied to it basic properties of oscillatory integrals and the stationary phase method are explained in the book in detail those finite dimensional integrals form a sequence of approximation of the feynman path integral when the division goes finer and finer a careful discussion is required to prove the convergence of the approximate sequence as the length of each of the small subintervals tends to 0 for that purpose the book uses the stationary phase method of oscillatory integrals over a space of large dimension of which the detailed proof is given in part ii of the book by virtue of this method the approximate sequence converges to the limit this proves that the feynman path integral converges it turns out that the convergence occurs in a very strong topology the fact that the limit is the fundamental solution of the schrödinger equation is proved also by the stationary phase method the semi classical asymptotic formula naturally follows from the above discussion a prerequisite for readers of this book is standard knowledge of functional analysis mathematical techniques required here are explained and proved from scratch in part ii which occupies a large part of the book because they are considerably different from techniques usually used in treating the schrödinger equation

Path Integrals in Physics

1965

this monograph distills material prepared by the author for class lectures conferences and research seminars it fills in a much felt gap between the older and original work by feynman and hibbs and the more recent and advanced volume by schulman after presenting an elementary account on the wiener path integral as applied to brownian motion the author progresses on to the statistics of polymers and polymer entanglements the next three chapters provide an introduction to quantum statistical physics with emphasis on the conceptual understanding of many variable systems a chapter on the renormalization group provides material

for starting on research work the final chapter contains an over view of the role of path integrals in recent developments in physics a good bibliography is provided for each chapter

Introduction to Quantum Mechanics

1997

suitable for advanced undergraduates and graduate students this text develops the techniques of path integration and deals with applications covering a host of illustrative examples 26 figures 1981 edition

Quantum Mechanics and Path Integrals [by] R.P. Feynman [and] A.R. Hibbs

2013

functional integrals is a well established method in mathematical physics especially those mathematical methods used in modern non perturbative quantum field theory and string theory this book presents a unique original and modern treatment of strings representations on bosonic quantum chromodynamics and bosonization theory on 2d gauge field models besides of rigorous mathematical studies on the analytical regularization scheme on euclidean quantum field path integrals and stochastic quantum field theory it follows an analytic approach based on loop space techniques functional determinant exact evaluations and exactly solubility of four dimensional qcd loop wave equations through elfin botelho fermionic extrinsic self avoiding string path integrals

Path Integral Methods

2017-06-24

path integrals in physics volume i stochastic processes and quantum mechanics presents the fundamentals of path integrals both the wiener and feynman type and their many applications in physics accessible to a broad community of theoretical physicists the book deals with systems possessing a infinite number of degrees in freedom it discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them it describes in detail various applications including systems with grassmann variables each chapter is self contained and can be considered as an independent textbook the

book provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers the path integral approach has proved extremely useful for the understanding of the most complex problems in quantum field theory cosmology and condensed matter physics path integrals in physics volume ii quantum field theory statistical physics and other modern applications covers the fundamentals of path integrals both the wiener and feynman types and their many applications in physics the book deals with systems that have an infinite number of degrees of freedom it discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them each chapter is self contained and can be considered as an independent textbook it provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers

Path Integrals, Hyperbolic Spaces and Selberg Trace Formulae

1986

feynman path integrals integrals suggested heuristically by feynman in the 40s have become the basis of much of contemporary physics from non relativistic quantum mechanics to quantum fields including gauge fields gravitation cosmology recently ideas based on feynman path integrals have also played an important role in areas of mathematics like low dimensional topology and differential geometry algebraic geometry infinite dimensional analysis and geometry and number theory the 2nd edition of lnm 523 is based on the two first authors mathematical approach of this theory presented in its 1st edition in 1976 to take care of the many developments which have occurred since then an entire new chapter about the current forefront of research has been added except for this new chapter the basic material and presentation of the first edition was mantained a few misprints have been corrected at the end of each chapter the reader will also find notes with further bibliographical information

Rigorous Time Slicing Approach to Feynman Path Integrals

1981

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

Introduction to Path-integral Methods in Physics and Polymer Science

2017-02-03

latest edition field theory 3rd edition this unique book describes quantum field theory completely within the context of path integrals with its utility in a variety of fields in physics the subject matter is primarily developed within the context of quantum mechanics before going into specialized areas adding new material keenly requested by readers this second edition is an important expansion of the popular first edition two extra chapters cover path integral quantization of gauge theories and anomalies and a new section extends the supersymmetry chapter where singular potentials in supersymmetric systems are described

Techniques and Applications of Path Integration

2001-07-01

Lecture Notes In Topics In Path Integrals And String Representations

2006-11-14

Path Integrals in Physics

1998-06-22

Mathematical Theory of Feynman Path Integrals

1990-01-01

Handbook of Feynman Path Integrals

2006

Path Integrals in Quantum Mechanics, Statistics, and Polymer Physics

Field Theory

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