

This textbook on the theory and applications of path integrals contains the solution to a number of non-trivial path integrals, most notably that of the Coulomb system. This has become possible by finding a consistent formulation of path integrals in spaces with curvature and torsion. Special emphasis is given to stability problems of path fluctuations in the presence of singular potentials such as centrifugal and angular barriers. The limitations of Feynman's time slicing procedure are exhibited and a new path integral formula is found which avoids the frequent danger of path collapse. The physically important applications to tunnelling problems are analyzed in detail. Their relevance to superconductivity and the large-order behaviour of perturbation expansions is demonstrated. The path integral description of equilibrium thermodynamics is presented, and an extension to non-equilibrium processes is presented. Much attention is paid to path integrals in spaces with topological restrictions. Their applications to entanglement problems in polymer physics and their relevance to particle statistics are discussed, also to the recently popular phenomenon of fractional statistics. Now in its second edition, the book has been extended by a more powerful variational approach which can now be applied to excited states and to tunnelling processes through high as well as low barriers. With it, the known large-order perturbation theory has been continued down to small orders. The book contains a detailed non-abelian Chern-Simons theory of polymer entanglement in terms of HOMFLY-polynomials and a discussion of anyonic aspects of the fractional quantum Hall effect and of high- T_c superconductivity. The semiclassical analysis incorporates now multidimensional systems to establish contact with recent work on chaos.

The Forest of Adventures (The Knight Trilogy) (Volume 1), Vocational and Technical Education national planning materials: Thermal Engineering, Spiritual Evolution (Classic Reprint), Storm over Cyprus: Prelude to Armageddon, New Zealand Inventory of Biodiversity: Volumes 1-3, Reminiscences of a Rebel (TREDITION CLASSICS), Echo - Audio Library Edition, Predictive Astrology of the Hindus, Live Like Tom: Celebrating the Life of Tushar Tom Zacharia (Eastern Frisian Edition),

The Chern-Simons theory of particles with fractional statistics (anyons) is introduced and applied to explain the fractional quantum Hall effect. It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum-mechanical systems, in particular the hydrogen atom.

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. This is the fifth, expanded edition of the comprehensive textbook published in on the theory and applications of path integrals. It is the first book to explicitly.

PDF On Jan 1, , Hagen Kleinert and others published Path Integrals in Quantum Mechanics, Statistics and Polymer Physics. Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets - Kleinert, H. World Scientific, Singapore, Witte, FMC; () Book Review: Path Integrals in Quantum Mechanics, Statistics , Polymer Physics and Financial Markets. Journal of Statistical Physics, Get the Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets at Microsoft Store and compare products with the latest.

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