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## Path Integral Approach to Quantum Physics

By Roepstorff, Gert

Condition: New. Publisher/Verlag: Springer, Berlin | An Introduction | The present text is designed to introduce graduate students to the functional integration method in contemporary physics as painlessly as possible. The author concentrates on the conceptual problems inherent in the path integral formalism. The striking interplay between stochastic processes, statistical physics and quantum mechanics comes to the fore. The reader will find all the methods of fundamental interest amply illustrated by important physical examples. |&apos;1. Brownian Motion.- 1.1 The One-Dimensional Random Walk.- 1.2 Multidimensional Random Walk.- 1.3 Generating Functions.- 1.3.1 Return or Escape?.- 1.4 The Continuum Limit.- 1.5 Imaginary Time.- 1.6 The Wiener Process.- 1.6.1 The Analysis of Random Paths.- 1.6.2 Multidimensional Gaussian Measures.- 1.6.3 Increments.- 1.7 Expectation Values.- 1.8 The Ornstein-Uhlenbeck Process.- 1.8.1 The Oscillator Process.- 2. The Feynman-Kac Formula.- 2.1 The Conditional Wiener Measure.- 2.1.1 The Path Integral.- 2.1.2 The Stochastic Formulation.- 2.2 The Integral Equation Method.- 2.2.1 Stochastic Representation of Operator Norms.- 2.2.2 Stochastic Representation of Green&apos;s Functions.- 2.3 The Lie-Trotter Product Method.- 2.3.1 The Lie-Trotter Product Formula.- 2.3.2 Miscellaneous Remarks and Results.- 2.3.3 Several Particles with Different Masses.- 2.4 The Brownian Tube.- 2.5 The Golden-Thompson-Symanzik Bound.- 2.6 Hamiltonians and Their Associated Processes.- 2.6.1 Correlation Functions.-...



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