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Publication date 1981 Topics Quantum field theory, Quantum theory, Statistical physics Publisher New York : Springer-Verlag Collection inlibrary; printdisabled; trent_university; internetarchivebooks Digitizing sponsor Kahle/Austin

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Quantum Physics: A Functional Integral
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the subject of this book touches many
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Functional integration is a collection of
results in mathematics and physics where

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the domain of an integral is no longer a region of space, but a space of functions. Functional integrals arise in probability, in the study of partial differential equations, and in the path integral approach to the quantum mechanics of particles and fields. In an ordinary integral (in the sense of Lebesgue integration) there is a function to

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be integrated (the integrand) and a region
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This is NOT a standard book on quantum mechanics via path integrals, as is the marvellous book by Feynman and Hibbs, among others. This is the bible on Constructive QFT (CQFT), the most recent of all attempts to put QFT on a

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sound mathematical basis, written by two
of its founders. This IS hard physics AND
hard math (Wiener integrals, unbounded ...

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Describes fifteen years' work which has led to the construction of solutions to non-

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linear relativistic local field equations in
2 and 3 space-time dimensions. Gives
proof of the existence theorem in 2
dimensions and describes many properties
of the solutions.

This book is addressed to one problem and
to three audiences. The problem is the

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mathematical structure of modern physics:
statistical physics, quantum mechanics,
and quantum fields. The unity of
mathematical structure for problems of
diverse origin in physics should be no
surprise. For classical physics it is
provided, for example, by a common
mathematical formalism based on the

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wave equation and Laplace's equation. The unity transcends mathematical structure and encompasses basic phenomena as well. Thus particle physicists, nuclear physicists, and condensed matter physicists have considered similar scientific problems from complementary points of view. The mathematical structure

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presented here can be described in various terms: partial differential equations in an infinite number of independent variables, linear operators on infinite dimensional spaces, or probability theory and analysis over function spaces. This mathematical structure of quantization is a generalization of the theory of partial

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differential equations, very much as the latter generalizes the theory of ordinary differential equations. Our central theme is the quantization of a nonlinear partial differential equation and the physics of systems with an infinite number of degrees of freedom. Mathematicians, theoretical physicists, and specialists in mathematical

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physics are the three audiences to which the book is addressed. Each of the three parts is written with a different scientific perspective.

Specifically designed to introduce graduate students to the functional integration method in contemporary

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physics as painlessly as possible, the book concentrates on the conceptual problems inherent in the path integral formalism.

Throughout, the striking interplay between stochastic processes, statistical physics and quantum mechanics comes to the fore, and all the methods of fundamental interest are generously illustrated by important

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Functional integration is one of the most powerful methods of contemporary theoretical physics, enabling us to simplify, accelerate, and make clearer the process of the theoretician's analytical work. Interest in this method and the

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endeavour to master it creatively grows incessantly. This book presents a study of the application of functional integration methods to a wide range of contemporary theoretical physics problems. The concept of a functional integral is introduced as a method of quantizing finite-dimensional mechanical systems, as an alternative to

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Integral Point Of View. The ordinary quantum mechanics. The problems of systems quantization with constraints and the manifolds quantization are presented here for the first time in a monograph. The application of the functional integration methods to systems with an infinite number of degrees of freedom allows one to uniquely introduce

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and formulate the diagram perturbation theory in quantum field theory and statistical physics. This approach is significantly simpler than the widely accepted method using an operator approach.

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Specifically designed to introduce graduate students to the functional integration method in contemporary physics as painlessly as possible, the book concentrates on the conceptual problems

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inherent in the path integral formalism.

Throughout, the striking interplay between stochastic processes, statistical physics and quantum mechanics comes to the fore, and all the methods of fundamental interest are generously illustrated by important physical examples.

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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.

Path Integrals in Physics: Volume I,
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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

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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

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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.

Topological restrictions. These are

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relevant to the understanding of the
statistical properties of elementary
particles and the entanglement phenomena
in polymer physics and biophysics. The
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and applied to explain the fractional
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