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Functional integration is a collection of results in mathematics and physics where the domain of an integral is no longer a region of space, but a space

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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 be integrated (the

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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

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Most recent of all attempts to put QFT on a 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-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.

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The main theme of this book is the "path integral technique" and its applications to constructive methods of quantum physics. The central topic is probabilistic foundations of the Feynman-Kac formula. Starting with the main examples of Gaussian

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processes (the Brownian motion, the oscillatory process, and the Brownian bridge), the author presents four different proofs of the Feynman-Kac formula. Also included is a simple exposition of stochastic Ito calculus and its applications, in particular to the Hamiltonian of a particle in a magnetic

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field (the Feynman-Kac-Ito formula).
Among other topics discussed are the
probabilistic approach to the bound of
the number of ground states of
correlation inequalities (the Birman-
Schwinger principle, Lieb's formula,
etc.), the calculation of asymptotics for
functional integrals of Laplace type

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(the theory of Donsker-Varadhan) and applications, scattering theory, the theory of crushed ice, and the Wiener sausage. Written with great care and containing many highly illuminating examples, this classic book is highly recommended to anyone interested in applications of functional integration to

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Integral Point Of View quantum physics. It can also serve as a textbook for a course in functional integration.

Functional integration is one of the most powerful methods of contemporary theoretical physics, enabling us to simplify, accelerate, and make clearer

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the process of the theoretician's analytical work. Interest in this method and the 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

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significantly simpler than the widely
accepted method using an operator
approach.

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and to three audiences. The problem
is the mathematical structure of
modern physics: statistical physics,

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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 wave equation and Laplace's equation. The unity

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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 presented here

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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

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theory of partial 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,

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quantum mechanics comes to the fore,
and all the methods of fundamental
interest are generously illustrated by
important physical examples.

This text takes advantage of recent
developments in the theory of path
integration and attempts to make a

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Major paradigm shift in how the art of functional integration is practiced. The techniques developed in the work will prove valuable to graduate students and researchers in physics, chemistry, mathematical physics, and applied mathematics who find it necessary to deal with solutions to wave equations,

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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

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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

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systematic account of the subject
suitable for both students and
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Topological restrictions. These are
relevant to the understanding of the
statistical properties of elementary
particles and the entanglement

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Integral Point Of View 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

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