

# Functional Integration

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The powerful tool of functional integration is widely applied and shown to be user-friendly and mathematically robust. Functional integration successfully entered physics as path integrals in the 1942 Ph.D. dissertation of Richard P. Feynman, but it made no sense at all as a mathematical definition. Cartier and DeWitt-Morette have created, in this book, a fresh approach to functional integration. The book is self-contained: mathematical ideas are introduced, developed, generalised and applied. In the authors' hands, functional integration is shown to be a robust, user-friendly and multi-purpose tool that can be applied to a great variety of situations, for example: systems of indistinguishable particles, Aharonov-Bohm systems, supersymmetry, non-gaussian integrals. Problems in quantum field theory are also considered. In the final part the authors outline topics that can be profitably pursued using material already presented. EAN/ISBN : 9780511258329 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Cartier, Pierre - DeWitt-Morette, Cecile

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