

Quantum Mechanics And Path Integrals Richard P Feynman

[illegible]

looks at quantum mechanics covering such topics as perturbation method statistical mechanics path integrals and quantum electrodynamics

this book develops integral identities mostly involving multidimensional functions and infinite limits of integration whose evaluations are intractable by common means it exposes a methodology based on the multivariate power substitution and its variants assisted by the software tool mathematica the approaches introduced comprise the generalized method of exhaustion

the multivariate power substitution and its variants and the use of permutation symmetry to evaluate definite integrals which are very important both in their own right and as necessary intermediate steps towards more involved computation a key tenet is that such approaches work best when applied to integrals having certain characteristics as a starting point most integrals if used as a starting point will lead to no result at all or will lead to a known result however there is a special class of integrals i e innovative integrals which if used as a starting point for such approaches will lead to new and useful results and can also enable the reader to generate many other new results that are not in the book the reader will find a myriad of novel approaches for evaluating integrals with a focus on tools such as mathematica as a means of obtaining useful results and also checking whether they are already known results presented involve the gamma function the hypergeometric functions the complementary error function the exponential integral function the riemann zeta function and others that will be introduced as they arise the book concludes with selected engineering applications e g involving wave propagation antenna theory non gaussian and weighted gaussian distributions and other areas the intended audience comprises junior and senior sciences majors planning to continue in the pure and applied sciences at the graduate level graduate students in mathematics and the sciences and junior and established researchers in mathematical physics engineering and mathematics indeed the pedagogical inclination of the exposition will have students work out understand and efficiently use multidimensional integrals from first principles

the aim of this book is to make accessible to mathematicians physicists and other scientists interested in quantum theory the beautiful but mathematically difficult subjects of the feynman integral and feynman s operational calculus some advantages of the approaches to the feynman integral which are treated in detail in this book are the following the existence of the feynman integral is established for very general potentials in all four cases under more restrictive but still broad conditions three of these feynman integrals agree with one another and with the unitary group from the usual approach to quantum dynamics these same three feynman integrals possess pleasant stability properties much of the material covered here was previously available only in the research literature and the book also contains some new results the background material in mathematics and physics that motivates the study of the feynman integral and feynman s operational calculus is discussed and detailed proofs are provided for the central results

this book is a collection of reviews and essays about the recent wide ranging developments in the areas of quantum physics the articles have mostly been written at the graduate level but some are accessible to advanced undergraduates they will serve as good introductions for beginning graduate students in quantum physics who are looking for directions aspects of mathematical physics quantum field theories and statistical physics are emphasized

aims to show graduate students and researchers the vital benefits of integrating mathematics into their study and experience of the physical world this book details numerous topics from the frontiers of modern physics and mathematics such as convergence

green functions complex analysis fourier series and fourier transform tensors and others

a publication of the american institute of aeronautics and astronautics devoted to marine science and technology

stenger provides an in depth presentation for those fascinated by how physics explains the universe and affects philosophy

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