



Aspects of Quantum Field Theories on Lattice

By Sinha, Tilak

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Nonperturbative studies on pure U(1) and Phi-4 theory | This book is intended for a beginner in Lattice Gauge Theory or even an outsider willing to get a quick glimpse of the subject. It provides a quick and simple outline of the nonperturbative formulation of Quantum Field Theory using a space-time lattice and Monte Carlo Simulation techniques. The introduction comprising the first twenty pages or so constitute the most useful part of this work where the basic formalism and its logical basis is briefly outlined with due emphasis on the extraction of continuum limit and connection to phenomenology. The rest of the book serves to provide illustrations, in rather simple and familiar settings, of how some of the aspects of the formalism are carried out in practice. The reader will also, hopefully, find the appendices useful. In particular, the section on estimators and uncertainties is of practical value and fundamental importance to the technique discussed here. | Format: Paperback | Language/Sprache: english | 180 gr | 220x150x6 mm | 108 pp.



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