<<量子色动力学讲义/LECTURE>>

图书基本信息

书名：<<量子色动力学讲义/LECTURES ON QUANTUM CHROMODYNAMICS>>

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内容概要

Quantum chromodynamics is the fundamental theory of strong interactions. It is nphysical theory describing Nature. Lectures on Quantum Chromodynamics concentrates,however, not on the phenomenological aspect of QCD; books with comprehensivecoverage of phenomenological issues have been written. What the reader will findin this book is a profound discussion on the theoretical found, liQns of QCD withemphasis on the nonperturbative formulation of the theory: What is gouget symmerry on the classical and on the quantum level. What ~s the path integral m fleld theoryHow to define the path integral on the lattice, keeping intact as many symmetriesof the continuum theory as possible? What is the QCD vacuum state ?
What is theeffective low energy dynamics of QCD? How do the ITEP sum rules work ?
Whathappens if we heat and/or squeeze hadronic matter ?
Perturbative issues are alSodiscussed: How to calculate Feynman graphs? What is the BRST symmetry? Whatis the meaning of the renormalization procedure? How to resum infrared andcollinear singularities? And so on.The book Js an outgrowth of the course of lectures given by the author for graduatestudents at ITEP in Moscow. Much extra material has been added.

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