

QCD Spectral Sum Rules



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The aim of the book is to give an introduction to the method of QCD Spectral Sum Rules and to review its developments. After some general introductory remarks, Chiral Symmetry, the Historical Developments of the Sum Rules and the necessary materials for perturbative QCD including the \overline{MS} regularization and renormalization schemes are discussed. The book also gives a critical review and some improvements of the wide uses of the QSSR in Hadron Physics and QSSR beyond the Standard Hadron Phenomenology. The author has participated actively in this field since 1978 just before the expanding success of the SVZ QSSR.

Contents:

- * Chiral Symmetry - Spectral Sum Rules [\overline{MS}] Scheme and Perturbative QCD
- * A Mini-Review of Some Non-Perturbative Aspects of QCD

- * SVZ Expansion: Theoretical Foundations
- * Methods for the Evaluation of the Wilson Coefficients of the Condensates
- * r Meson Spectral Sum Rules and the Determination of the Vacuum Condensates
- * Weinberg and Axial-Vector Sum Rules in QCD
- * SU(2) Chiral and Flavour Symmetry Breakings: (Pseudo) Scalar and w-r Mixing Sum Rules
- * The "Strange" Strange Quark: SU(3) Breakings From The Light-Meson Systems
- * Heavy-Quark Systems
- * Heavy-Light Quark Systems
- * Baryon Systems
- * Gluonia Sum Rules and Low-Energy Theorems
- * Exotics: Hybrids or Hermaphrodite Mesons and Four Quark States
- * Vertex Sum Rules, Form Factors and Wave Functions
- * Weak Decays - CP Violation
- * Determination of L to Four Loops and QCD Formulation of the Tau (t) Decay
- * Further Uses of the Spectral Sum Rules in QCD
- * QHD Spectral Sum Rules for Some Composite Models of Electroweak Interactions
- * Appendix

Readership: Particle physicists.

作者介绍:

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