

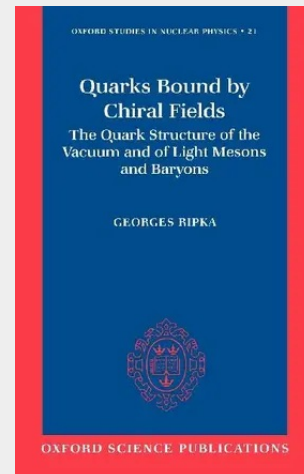
Ripka

Quarks Bound by Chiral Fields

The Quark Structure of the Vacuum and of Light Mesons and Baryons

The structure of light hadrons is dominated by the spontaneously broken chiral symmetry of the strongly interacting (QCD) vacuum. Low energy properties of light hadrons can be described in terms of quarks interacting with chiral fields. This book gives a comprehensive account of a large class of models which describe the restoration of chiral symmetry at high temperature and density, the effective interactions between quarks, mesons as solutions of the Beth-Salpeter equation, and baryons in terms of solitons which rotate in flavor space. An in-depth analysis of regularization is given, including regularization by delocalized fields. Symmetry conserving approximations are formulated using both path integral and Feynmann graph methods. The style is pedagogical and well suited to graduate and PhD students who want to learn the techniques used in present day research. It can also serve as a reference for research and lecture courses.

The structure of light hadrons is dominated by the spontaneously broken chiral symmetry of the strongly interacting (QCD) vacuum. Low energy properties of light hadrons can be described in terms of quarks interacting with chiral fields. This book gives a comprehensive account of a large class of models which describe the restoration of chiral symmetry at high temperature and density, the effective interactions between quarks, mesons as solutions of the Beth-Salpeter equation, and baryons in terms of solitons which rotate in flavor space. An in-depth analysis of regularization is given, including regularization by delocalized fields. Symmetry conserving approximations are formulated using both path integral and Feynmann graph methods. The style is pedagogical and well suited to graduate and PhD students who want to learn the techniques used in present day research. It can also serve as a reference for research and lecture courses.



220,40 €

220,40 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780198517849

Medium: Buch

ISBN: 978-0-19-851784-9

Verlag: OUP Oxford

Erscheinungstermin: 01.08.1997

Sprache(n): Englisch

Auflage: Erscheinungsjahr 1997

Produktform: Gebunden

Gewicht: 505 g

Seiten: 224

Format (B x H): 161 x 240 mm

