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 Solution ; Chapter 6 NUCLEON PROPERTIES
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 Hedgehog Solution ; 6.3 Axial
 Properties ; 6.4 Non-rigid Quantization of the
 Skyrmion ; 6.5 Electromagnetic
 Properties ; 6.6 Chiral Bag with Vector Mesons
 ; Chapter 7 LARGE-Nc BARYONS ; 7.1 Introduction
 7.2 General Counting Rules 7.3 Counting Rules for
 Solitons ; 7.4 Large-Nc Algebra for Baryons
 ; 7.5 Finite Nc ; 7.6 Other Representations and g_A ; 7.7
 Meson-Baryon System ; Chapter 8 EXCITED BARYONS
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 Quarks in a Deformed Oscillator Potential
 8.3 Electromagnetic Transitions

Sommario/riassunto

This book describes baryon models constructed from quarks, mesons and chiral symmetry. The role of chiral symmetry and of quark model structure with SU(6) spin-flavor symmetry are discussed in detail, starting from a pedagogic introduction. Emphasis is placed on symmetry aspects of the theories. As an application, the chiral bag model is studied for nucleon structure, where important methods of theoretical physics, mostly related to the semiclassical approach for a system of strong interactions, are demonstrated. The text is more practical than formal; tools and ideas are explained in detail