



# Quantum Chromodynamics

*Walter Greiner, Stefan Schramm, Eckart Stein*

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The book is a self-contained introduction to perturbative and nonperturbative Quantum chromodynamics (QCD) with worked-out exercises for students of theoretical physics. It will be useful as a reference for research scientists as well. Starting with the hadron spectrum, the reader becomes familiar with the representations of  $SU(N)$ . Relativistic quantum field theory is recapitulated, and scattering theory is discussed in the framework of scalar quantum electrodynamics. Then the gauge theory of quarks and gluons is introduced. In the more advanced chapters, perturbative and nonperturbative techniques in state-of-the-art QCD are discussed in great detail. The new third edition has been extensively revised and enlarged to cover all new aspects in Quantum chromodynamics.

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