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The third edition of this outstanding volume has been extensively revised and enlarged to cover all new aspects in Quantum chromodynamics. It first reviews relativistic Quantum field theory and details scattering theory in the framework of scalar Quantum electrodynamics. The book then introduces the gauge theory of quarks and gluons.

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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

Quantum Chromodynamics | Walter Greiner | Springer

Panos Christakoglou Lectures on Quantum Chromodynamics Particle Physics II January 28, 2015
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Description : The third edition of this outstanding volume has been extensively revised and enlarged to cover all new aspects in Quantum chromodynamics. It first reviews relativistic quantum field theory and details scattering theory in the framework of scalar quantum electrodynamics.

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arXiv:hep-ph/0505192v2 9 Oct 2010 CERN-PH-TH/2009-194 MAN/HEP/2009/35 Quantum ChromoDynamics MICHAEL H. SEYMOUR School of Physics and Astronomy, University of Manchester, Manchester, M13 9PL, U.K., and

arXiv:hep-ph/0505192v2 9 Oct 2010

Introduction to QCD P. Z. Skandsy Theoretical Physics, CERN, 1211 Geneva 23, Switzerland ... Quantum Chromodynamics is based on the gauge group $SU(3)$, the Special Unitary group in 3 (complex) dimensions, whose elements are the set of unitary 3×3 matrices with determinant one.

Introduction to QCD - arXiv

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In theoretical physics, quantum chromodynamics (QCD) is the theory of the strong interaction between quarks and gluons, the fundamental particles that make up composite hadrons such as the proton, neutron and pion.

Quantum chromodynamics - Wikipedia

Quantum Chromodynamics (QCD), the gauge field theory that describes the strong interactions of colored quarks and gluons, is the $SU(3)$ component of the $SU(3) \times SU(2) \times U(1)$ Standard Model of Particle Physics.

9. QUANTUM CHROMODYNAMICS - Particle Data Group

Quantum chromodynamics is the quantum field theory that allows us to calculate the propagation and interaction of colored quarks and gluons at small distances.

W. Greiner S. Schramm E. Stein QUANTUM CHROMODYNAMICS

gluons and quantum chromodynamics 3 a system must be obtained by combining the individual charges of the constituents according to group theoretic rules analogous to those for combining angular momenta in quantum mechanics.

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