



[DOWNLOAD](#)



QCD as a Theory of Hadrons: From Partons to Confinement (Paperback)

By Stephan Narison

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2007. Paperback. Book Condition: New. 240 x 172 mm. Language: English Brand New Book ***** Print on Demand *****. This book provides a pedagogical introduction to the perturbative and non-perturbative aspects of quantum chromodynamics (QCD). Introducing the basic theory and recent advances in QCD, it also reviews the historical development of the subject, covering pre-QCD ideas of strong interactions such as the quark and parton models, the notion of colours and the S-matrix approach. The author then discusses gauge theory, techniques of dimensional regularization and renormalization, deep inelastic scattering and hard processes in hadron collisions, hadron jets and e+e- annihilations. Other topics include power corrections and the technologies of the Shifman-Vainshtein-Zakharov operating product expansion. The final parts of the book are devoted to modern non-perturbative approaches to QCD and the phenomenological aspects of QCD spectral sum rules. The book will be a valuable reference for graduate students and researchers in high-energy particle and nuclear physics, both theoretical and experimental.



[READ ONLINE](#)
[3.86 MB]

Reviews

Completely essential study publication. This is for anyone who statte that there was not a well worth reading through. I am very easily could get a satisfaction of reading through a written publication.

-- **Hallie Stanton**

The ebook is straightforward in study better to fully grasp. It is actually loaded with knowledge and wisdom I am just delighted to tell you that here is the best pdf i have read through during my very own lifestyle and may be he greatest ebook for at any time.

-- **Dr. Karelle Glover**