



# **Pomeron Physics and QCD (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology)**

*Sandy Donnachie, Günter Dosch, Peter Landshoff, Otto Nachtmann*

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This book describes the underlying ideas and modern developments of Regge theory, confronting the theory with quantum chromodynamics and a huge variety of experimental data. It covers forty years of research and provides a unique insight into the theory and its phenomenological development. The authors review experiments that suggest the existence of a soft pomeron, and give a detailed discussion of attempts at describing this through nonperturbative quantum chromodynamics. They suggest that a second, hard pomeron is responsible for the dramatic rise in energy observed in deep inelastic lepton scattering. The two-pomeron hypothesis is applied to a variety of interactions and is compared and contrasted with perturbative quantum chromodynamics, as well as with the dipole approach. This book will provide a valuable reference for experimental particle physicists all over the world. It is also suitable for graduate courses in particle physics, high-energy scattering, QCD and the standard model.

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