

1. Record Nr.	UNINA9910454408503321
Titolo	Hadronic structure [[electronic resource]] : 14th Annual HUGS at CEBAF, Newport News, Virginia, 1-18 June 1999 // editor, Jose L. Goity
Pubbl/distr/stampa	Singapore ; ; River Edge, NJ, : World Scientific, c2001
ISBN	1-281-95172-2 9786611951726 981-281-020-X
Descrizione fisica	1 online resource (348 p.)
Altri autori (Persone)	GoityJose L
Disciplina	539.7/216
Soggetti	Hadrons Hadron interactions Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Lectures and Seminar Speakers; List of Participants; Preface; CONTENTS; The Structure of the Nucleon; 1 INTRODUCTION; 2 KINEMATICS; 3 FORM FACTORS; 4 STRANGENESS; 5 COMPTON SCATTERING; 6 PION PHOTOPRODUCTION; 8 SUMMARY; REFERENCES; TESTS AND PROBLEMS; Introduction to Chiral Perturbation Theory; 1 Introduction; 2 Chiral Symmetry and Effective Lagrangians; 3 Renormalization; 4 Baryon Chiral Perturbation Theory; 5 On to Higher Energy: Dispersion Relations; 6 Closing Comments; References; Lattice Gauge Theory - QCD from Quarks to Hadrons; 1 Lattice QCD: the Basics; 2 The light-hadron spectrum 3 Hadron Structure4 The Nucleon-Nucleon Interaction; 5 Conclusions; References; Light and Exotic Mesons; 1 Introduction; 2 Mesons in the Quark Model; 3 Decays of Mesons; 4 Exotic Mesons; 5 Partial Wave Analysis; 6 Overview of The Current Data; 7 The Future of Spectroscopy; References; QCD and the Structure of the Nucleon in Electron Scattering; 1 Introduction; 2 Elements of QCD; 3 Electron-Nucleon Scattering; 4 Flavor and Spin Content of the Nucleon; 5 Conclusion; References; High Energy Electron Nucleus Scattering; 1 Overview; 2 Inclusive Electron Scattering from Nucleons

3 Phenomenology of Inclusive $e^- - N$ Scattering Data
4 Inclusive Electron Scattering From Nuclei;
5 Semi-Inclusive $A(e, e'p)$ Scattering;
Bibliography; References; The HERMES Experiment;
1 Introduction: Overview of Deep Inelastic Scattering and the Spin Structure of the Nucleon;
2 Description of the HERMES Experiment;
3 The Gottfried Sum Rule and the Light-Quark Sea Flavor Asymmetry;
4 Spin-Dependent Deep Inelastic Scattering;
5 The Polarization of s produced at HERMES;
References

Sommario/riassunto

Contents: The Structure of the Nucleon (D Drechsel); Introduction to Chiral Perturbation Theory (B Holstein); Lattice Gauge Theory - QCD from Quarks to Hadrons (D Richards); Light and Exotic Mesons (C Meyer); QCD and the Structure of the Nucleon in Electron Scattering (W Melnitchouk); High Energy Electron Nucleus Scattering (B Filippone); The HERMES Experiment (S Pate). Readership: High energy physicists.
