Record Nr. UNINA9910817007503321 Autore Kittel W Titolo Soft multihadron dynamics / / W. Kittel, E.A. De Wolf Pubbl/distr/stampa Singapore; ; Hackensack, NJ, : World Scientific, c2005 **ISBN** 1-281-89690-X 9786611896904 981-270-114-1 Edizione [1st ed.] Descrizione fisica 1 online resource (670 p.) De WolfE. A Altri autori (Persone) Disciplina 539.7216 Hadrons - Multiplicity Soggetti Particles (Nuclear physics) Quantum chromodynamics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Preface: Contents: Chapter 1 Total Cross Sections and Diffraction: Chapter 2 Inclusive and Exclusive Data Analysis in LPS, Event Shape; Chapter 3 Three-Particle Exclusive Final States: Chapter 4 Single-Particle Inclusive Distributions; Chapter 5 Early Models; Chapter 6 Fragmentation Models; Chapter 7 Correlations and Fluctuations, the Formalism: Chapter 8 Final-State Multiplicity: Chapter 9 Experimental Results on Correlations; Chapter 10 Multiplicity Fluctuations and Intermittency; Chapter 11 Bose-Einstein Correlations; Index; Figure Credits Sommario/riassunto This book gives a comprehensive account of the development and present status of the field of soft (i.e. non-perturbative) phenomena encountered in the production of (multi-) hadronic final states by the collision of various types of particles at high energies. Phenomenological models used to describe the data are in general inspired by Quantum Chromo Dynamics (QCD) and the book repeatedly

crosses the border - if at all existent - between soft (non-perturbative)

and hard (perturbative) QCD.