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Edizione	[1st ed.]
Descrizione fisica	1 online resource (551 p.)
Altri autori (Persone)	SuganumaH (Hideo)
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Soggetti	Color confinement (Nuclear physics) Hadrons Quantum chromodynamics
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Note generali	"The International Conference ... was held from July 21 to 24 in 2003 at the Institute of Physical and Chemical Research (RIKEN) with the host of Interactive Research Center of Science (IRCS) at Tokyo Institute of Technology"--Pref., p. vii.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; CONTENTS; Supersymmetric QCD; Confinement Mechanism in QCD; Nonperturbative Aspects in QCD; Lattice QCD for Quark-Hadron Physics; Hot and Dense QCD; Recent Experiments on QCD (Quark Gluon Plasma & Penta-Quark System); Parallel Session Presentations; Poster Session Presentations; Conference Program; Participant List
Sommario/riassunto	This book makes a global survey of nonperturbative aspects of quantum chromodynamics (QCD) from the viewpoints of mathematical, elementary-particle and hadron physics, including recent lattice-QCD results. It presents current, important progress in the following areas: the quark confinement mechanism, dynamical chiral-symmetry breaking, topologies in QCD (instantons, monopoles, vortices), SUSY QCD, nonperturbative methods (1/Nc, ladder QCD, AdS/CFT), QCD

phase transition at finite temperature and density, quark-gluon plasma, and so on. For recent topics, the book also includes the experimental
