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Titolo	Perturbative and Nonperturbative Aspects of Quantum Field Theory [[electronic resource]] : Proceedings of the 35. Internationale Universitätswochen für Kern- und Teilchenphysik, Schladming, Austria, March 2–9, 1996 // edited by H. Latal, W. Schweiger
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Descrizione fisica	1 online resource (IX, 430 p. 16 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 479
Disciplina	530.14/3
Soggetti	Elementary particles (Physics) Quantum field theory Quantum computers Spintronics Quantum physics Nuclear physics Heavy ions Nuclear fusion Elementary Particles, Quantum Field Theory Quantum Information Technology, Spintronics Quantum Physics Nuclear Physics, Heavy Ions, Hadrons Nuclear Fusion
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Redesigning lattice QCD -- High energy collisions and nonperturbative QCD -- Perturbation theory in a nonperturbative QCD background -- Factorization and resummation -- The use of computer algebra in QCD -- The analytical value of the 6th-order electron ($g-2$) in QED -- Effective field theories -- Baryon structure and the chiral symmetry of QCD -- Effective theory for heavy quarks.
Sommario/riassunto	The book addresses graduate students as well as scientists interested

in applications of the standard model for strong and electroweak interactions to experimentally determinable quantities. Computer simulations and the relations between various approaches to quantum field theory, such as perturbative methods, lattice methods and effective theories, are also discussed.
