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Nota di contenuto	chapter 1 Notation and Conventions -- chapter 2 Review of Perturbative Field Theory -- chapter 3 Lie Groups, Lie Algebras, and Symmetries -- chapter 4 Gauge Theories -- chapter 5 The Strong Interactions and QCD -- chapter 6 Collider Physics -- chapter 7 The Weak Interactions -- chapter 8 The Standard Electroweak Theory -- chapter 9 Neutrino Mass and Mixing -- chapter 10 Beyond the Standard Model.
Sommario/riassunto	This new edition of The Standard Model and Beyond presents an advanced introduction to the physics and formalism of the standard model and other non-abelian gauge theories. It provides a solid background for understanding supersymmetry, string theory, extra dimensions, dynamical symmetry breaking, and cosmology. In addition to updating all of the experimental and phenomenological results from the first edition, it contains a new chapter on collider physics; expanded discussions of Higgs, neutrino, and dark matter physics; and many new problems.