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Edizione	[First edition.]
Descrizione fisica	1 online resource (385 pages)
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Soggetti	Gauge fields (Physics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Path integrals. Path integrals in non-relativistic quantum mechanics. Classical field theory. Quantum field theory of a scalar field. Scattering amplitudes. Feynman rules for theory. Renormalisation of theory. Quantum field theory with fermions. Gauge field theory. Feynman rules for quantum chromodynamics and quantum electrodynamics. Renormalisation of QCD and QED at one-loop order. QCD and asymptotic freedom. Spontaneous symmetry breaking. Feynman rules for electroweak theory. Renormalisation of electroweak theory. Grand unified theory. Field theories at finite temperature. Appendices.
Sommario/riassunto	Introduction to Gauge Field Theory provides comprehensive coverage of modern relativistic quantum field theory, emphasizing the details of actual calculations rather than the phenomenology of the applications. Forming a foundation in the subject, the book assumes knowledge of relativistic quantum mechanics, but not of quantum field theory.