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Descrizione fisica	1 online resource (xiv, 496 p.) : ill. ;
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Nota di contenuto	Introduction to the standard model -- Gauge theories -- Strong interaction symmetries -- Electroweak interactions: the SU(2) x U(1) model -- Anomalies and the axial U(1) and [theta] problems -- Tests of the standard model -- Grand Unified Theories -- Technicolor -- Composite models -- Supersymmetry -- General relativity -- Supergravity -- Higher-dimensional theories -- Strings theories -- Cosmology -- Inflationary cosmology -- Topological defects and cosmology -- Astronomical sources of high-energy particles.
Sommario/riassunto	This readable introduction to particle physics and cosmology discusses the interaction of these two fundamental branches of physics and considers recent advances beyond the standard models. Eight chapters comprise a brief introduction to the gauge theories of the strong and the electroweak interactions, the so-called grand unified theories, and

general relativity. Ten more chapters address recent concepts such as composite fermions and bosons, supersymmetry, quantum gravity, supergravity, and strings theories, and relate them to modern cosmology and experimental astronomy.
