

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910146076903321 |
| Autore | Collins P. D. B |
| Titolo | Particle physics and cosmology // P.D.B. Collins, A.D. Martin, E.J. Squires [[electronic resource]] |
| Pubbl/distr/stampa | New York, : Wiley, c1989 |
| ISBN | 1-280-56100-9 9786610561001 3-527-60282-8 |
| Descrizione fisica | 1 online resource (xiv, 496 p.) : ill. ; |
| Altri autori (Persone) | MartinAlan D (Alan Douglas) SquiresEuan J. <1933-> |
| Disciplina | 539.7/21 |
| Soggetti | Particles (Nuclear physics) Cosmology Nuclear models Nuclear Physics Physics Physical Sciences & Mathematics Electronic books |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "A Wiley-Interscience publication." Includes index. |
| Nota di bibliografia | Bibliography: p. 471-476. |
| 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.
