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Nota di contenuto	Contents; Part 1 Particles and Interactions; Part 2 The Early Universe; Part 3 Particles and Radiation in the Cosmos; A: Table of physical constants; B: Yukawa theory and the boson propagator; C: Perturbative growth of structure in the early universe; D: The MSW mechanism in solar neutrino interactions; Answers to problems; References; Bibliography; Index
Sommario/riassunto	How did our universe begin? An understanding of the development of the early universe brings together the subjects of particle physics, astrophysics, and cosmology. This text involves the student in this rapidly growing field of research. - ;The last years have seen a symbiosis of the fields of elementary particle physics and the astrophysics of the early universe. This text presents the background of the subjects and the latest developments at a level suitable for final year undergraduates and beginning graduate students. The first chapters cover the properties and interactions of elementary