



Elements of String Cosmology

By Maurizio Gasperini

Cambridge University Press, New Delhi, India, 2007. Hard Cover. Book Condition: New. Dust Jacket Condition: New. First Edition. The standard cosmological picture of our Universe emerging from a 'big bang' leaves open many fundamental questions which string theory, a unified theory of all forces of nature, should be able to answer. The first book dedicated to string cosmology, it contains a pedagogical introduction to the basic notions of the subject. It describes the new possible scenarios suggested by string theory for the primordial evolution of our Universe. It discusses the main phenomenological consequences of these scenarios, stresses their differences from each other, and compares them to the more conventional models of inflation. The book summarizes over 15 years of research in this field and introduces current advances. It is self-contained, so it can be read by astrophysicists with no knowledge of string theory, and high-energy physicists with little understanding of cosmology. Detailed and explicit derivations of all the results presented provide a deeper appreciation of the subject. First book fully devoted to string cosmology, summarizing the results of 15 years of work Includes self-contained introductions to cosmology and string theory Contains detailed derivations of all presented results allowing for a...



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