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Autore	Sidharth B. G
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Nota di contenuto

Dark Energy Universe -- Violation of Lorentz Symmetry -- The Enigmatic Neutrino -- The Bizarre Spacetime -- Mystery of the Missing Dark Matter -- Low-Dimensional Structures -- A Fifth Force in Nature -- An Explorer's Miscellany.

Sommario/riassunto

This book offers a compelling and philosophical exploration of the physical origins of inflation in the universe, grounded in the dimensional analysis of quantum mechanics and general relativity models. It posits that vacuum fluctuations drive inflation, presenting original ideas built upon the author's previous work. In the late 1990s, the author introduced the concept of dark energy and an accelerating universe, which was promptly confirmed by the observations of Perlmutter, Kirschner, and Riess. The discovery of dark energy has led to several new paradigms, including the intriguing notion that spacetime is discrete, resembling a Cantor set. Additionally, the book provides the important insight that special relativity is founded on quantum mechanical amplitudes, rather than classical mechanics. Furthermore, the book delves into the noncommutative nature of spacetime. It investigates the potential existence of a fifth force, a new force, over and above the four well-known forces, supported by the experimental evidence that is analyzed and discussed.