



Cosmological Pattern of Microphysics in the Inflationary Universe (Fundamental Theories of Physics)

Maxim Y. Khlopov, Sergei G. Rubin

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Modern cosmology is a quickly developing field of research. New technical devices and tools supply the community with new experimental data measured with high accuracy. The self-consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory. In their turn, such predictions imply cosmology for their probe. Specific studies of the cosmological consequences of particle theory, linking them to their observable signatures, are actual. This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations. The aim of this book is to acquaint the reader with some of these ideas, offering nontrivial ways to probe the physical basis of modern cosmology. An extensive review of the newest ideas in modern cosmology, e. g. , related with the development of the M-brane theory, lies beyond the scope of our book, which is aimed at providing a firmly established system of probes for these ideas, linking their predictions to their possible experimental test. We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe, of its matter content and large-scale structure. The crucial role of quantum fluctuations in creation of our Universe and in possible features, reflecting cosmological impact of microphysics, is discussed. These features are shown to be accessible to experimental test in the near future.

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