



Introduction To The Theory of The Early Universe: Cosmological Perturbations and Inflationary Theory

By Dmitry S. Gorbunov, Valery A. Rubakov

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This book accompanies another book by the same authors, *Introduction to the Theory of the Early Universe: Hot Big Bang Theory* and presents the theory of the evolution of density perturbations and relic gravity waves, theory of cosmological inflation and post-inflationary reheating. Written in a pedagogical style, the main chapters give a detailed account of the established theory, with derivation of formulas. Being self-contained, it is a useful textbook for advanced undergraduate students and graduate students. Essential materials from General Relativity, theory of Gaussian random fields and quantum field theory are collected in the appendices. The more advanced topics are approached similarly in a pedagogical way. These parts may serve as a detailed introduction to current research.

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Review

"The two volumes of Theory of the Early Universe are a fine choice and an excellent alternative to Steven Weinberg's more formal Cosmology ... an excellent addition to the field of theoretical cosmology that goes a long way towards filling the need for a fully modern pedagogical text." --John March-Russell (Oxford University), *CERN Courier*

"This set of two volumes on the early universe is a truly excellent treatise on the subject. The volumes cover both particle physics and general relativity aspects systematically and in detail. The discussion is self-contained and brings out the tremendous progress that has occurred in the last 2 3 decades. It is especially refreshing to see that the hype, exaggerations and over-emphasis on fashions one often finds in discussions of modern cosmology are not necessary to make the subject lucid and fascinating. The two volumes can be used either as texts for advanced courses in cosmology or as 'handbooks' on the subject by active researchers." --Abhay Ashtekar, Director, Institute for Gravitation & the Cosmos, Pennsylvania State University

From the Inside Flap

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