



Cosmological Inflation and Large-Scale Structure

By Andrew R. Liddle, David H. Lyth

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Enormous progress has been made in inflationary cosmology in the past few years and this book is the first to provide a modern and unified overview of the subject. Coverage examines every aspect of inflationary cosmology and carefully compares predictions with the latest observations, including those of the cosmic microwave background, the clustering and velocities of galaxies and the epoch of structure formation. Problems are included throughout to help the student develop a thorough understanding. An ideal introduction to what promises to be one of the most fruitful topics of research in science in the next decade, this volume will be of great interest to graduate students and researchers in astrophysics, cosmology, particle physics, theoretical physics and applied mathematics.

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Review

"[Liddle's and Lyth's] depth knowledge and expertise provide a rock-solid foundation for this book, which is carefully constructed, well-written, well-organized, and crystal clear in its presentation of what can appear to be a complex and broad range of topics. The narrow, deep focus of the book allows the reader to study the main topics in careful detail...Liddle and Lyth have produced a highly focused, fantastically useful book...should be useful to students and practitioners in the field for many years to come." Physics Today

"...a detailed and well-written description of inflationary theory and its implications for the theory of formation of the large scale structure of the universe...a must for those who want to study modern cosmology." Professor Andrei Linde, Stanford University

"...clearly written and will be very useful to students, providing a very valuable entry to the literature [in this] fast-developing field." Professor Neil Turok, University of Cambridge

"Both Liddle and Lyth have been active contributors to important developments in the fields of inflation and large-scale structure for well over a decade. Their depth of knowledge and expertise provide a rock-solid foundation for this book, which is carefully constructed, well-written, well-organized, and crystal clear in its presentation.... The book is ideal for an advanced undergraduate course in cosmology that focuses on inflation and large-scale structure.In sum, Liddle and Lyth have produced a highly focused, fantastically useful book....Inflation and large-scale structure are fast-moving, rapidly developing fields, yet the basics are unlikely to change in the near future." Ruth A. Daly, Pennsylvania State University; Physics Today

About the Author

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