ASTR 170: Introduction to Cosmology



Introduction To Cosmology

G J Whitrow

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An Introduction to Cosmology and Particle Physics Rosa Domínguez-Tenreiro, Mariano Quiros, 1988 Introduction to Cosmology, Pearson New International Edition Barbara Ryden, 2013-10-03 Introduction to Cosmology provides a rare

combination of a solid foundation of the core physical concepts of cosmology and the most recent astronomical observations The text is designed for advanced undergraduates or beginning graduate students and assumes no prior knowledge of general relativity. An emphasis is placed on developing the students physical insight rather than losing them with complex math An approachable writing style and wealth of fresh and imaginative analogies from everyday physics are used to make the concepts of cosmology more accessible The Structure and Evolution of the Universe G. J. Whitrow, 1989 Introduction to the Science of Cosmology Derek Raine, E.G. Thomas, 2001-08-01 A thorough introduction to modern ideas on cosmology and on the physical basis of the general theory of relativity An Introduction to the Science of Cosmology explores various theories and ideas in big bang cosmology providing insight into current problems Assuming no previous knowledge of astronomy or cosmology this book takes you beyond introductory texts to the point where you are able to read and appreciate the scientific literature which is broadly referenced in the book The authors present the standard big bang theory of the universe and provide an introduction to current inflationary cosmology emphasizing the underlying physics without excessive technical detail The book treats cosmological models without reliance on prior knowledge of general relativity the necessary physics being introduced in the text as required It also covers recent observational evidence pointing to an accelerating expansion of the universe The first several chapters provide an introduction to the topics discussed later in the book The next few chapters introduce relativistic cosmology and the classic observational tests One chapter gives the main results of the hot big bang theory Next the book presents the inflationary model and discusses the problem of the origin of structure and the correspondingly more detailed tests of relativistic models Finally the book considers some general issues raised by expansion and isotropy A reference section completes the work by listing essential formulae symbols and physical constants Beyond the level of many elementary books on cosmology An Introduction to the Science of Cosmology encompasses numerous recent developments and ideas in the area It provides more detailed coverage than many other titles available and the inclusion of problems at the end of each chapter aids in self study and makes the book suitable for taught The Structure and Evolution of the Universe G. J. Whitrow, 1959 The Structure and Evolution of the courses Universe; an Introduction to Cosmology G J Whitrow, 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **An Introduction to Cosmology** J. V.

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Introduction To General Relativity And Cosmology Christian G Boehmer, 2016-10-06 Introduction to General Relativity and Cosmology gives undergraduate students an overview of the fundamental ideas behind the geometric theory of gravitation and spacetime Through pointers on how to modify and generalise Einstein's theory to enhance understanding it provides a link between standard textbook content and current research in the field Chapters present complicated material practically and concisely initially dealing with the mathematical foundations of the theory of relativity in particular differential geometry This is followed by a discussion of the Einstein field equations and their various properties Also given is analysis of the important Schwarzschild solutions followed by application of general relativity to cosmology Questions with fully worked answers are provided at the end of each chapter to aid comprehension and guide learning This pared down textbook is specifically designed for new students looking for a workable simple presentation of some of the key theories in modern physics and mathematics An Introduction to General Relativity and Cosmology Jerzy Plebanski, Andrzej Krasinski, 2006-08-14 General relativity is a cornerstone of modern physics and is of major importance in its applications to cosmology Plebanski and Krasinski are experts in the field and in this book they provide a thorough introduction to general relativity guiding the reader through complete derivations of the most important results Providing coverage from a unique viewpoint geometrical physical and astrophysical properties of inhomogeneous cosmological models are all systematically and clearly presented allowing the reader to follow and verify all derivations For advanced undergraduates and graduates in physics and astronomy this textbook will enable students to develop expertise in the mathematical techniques necessary to study general relativity Physics,

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