Introduction To Particle Cosmology The Standard Model Of Cosmology And Its Open Problems Unitext For Physics

Redefining Standard Model CosmologyRelativistic CosmologyIntroduction to Particle CosmologyAn Introduction to the Science of CosmologyCurvature CosmologyFundamental Questions of Practical CosmologyPrimordial CosmologyDark Matter and Dark EnergyA Different Approach to CosmologyPrimordial CosmologyCosmological CluesCosmology and the Early UniverseThe Oxford Companion to CosmologyCosmology NowMathematical CosmologyAddressing Beyond Standard Model Physics Using CosmologyAstronomy, the Cosmic JourneyCosmology and ControversyCosmology: A Very Short IntroductionFlat Space Cosmology Brian Albert Robson George F. R. Ellis Cosimo Bambi Derek Raine David F. Crawford Yurij Baryshev Patrick Peter Sabino Matarrese F. Hoyle Giovanni Montani Carolyn Devereux Pasquale Di Bari Andrew R. Liddle B C Leslie Peter Theodore Landsberg Akshay Ghalsasi William K. Hartmann Helge Kragh Peter Coles Eugene Terry Tatum
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the current standard model of cosmology is based primarily on two incompatible theoretical models 1 the standard model of particle physics which describes the physics of the very small in terms of quantum mechanics and 2 the general theory of relativity which describes the physics of the very large in terms of classical physics both these theoretical models are considered to be incomplete in the sense that they do not provide any understanding of several empirical observations such as the big bang dark matter dark energy gravity and matter antimatter asymmetry in the universe the main aim of this book is to discuss these serious problems that threaten to undermine the current standard model of cosmology

cosmology has been transformed by dramatic progress in high precision observations and theoretical modelling this book surveys key developments and open issues for graduate students and researchers using a relativistic geometric approach it focuses on

the general concepts and relations that underpin the standard model of the universe part i covers foundations of relativistic cosmology whilst part ii develops the dynamical and observational relations for all models of the universe based on general relativity part iii focuses on the standard model of cosmology including inflation dark matter dark energy perturbation theory the cosmic microwave background structure formation and gravitational lensing it also examines modified gravity and inhomogeneity as possible alternatives to dark energy anisotropic and inhomogeneous models are described in part iv and part v reviews deeper issues such as quantum cosmology the start of the universe and the multiverse proposal colour versions of some figures are available at cambridge org 9780521381154

this book introduces the basic concepts of particle cosmology and covers all the main aspects of the big bang model expansion of the universe big bang nucleosynthesis cosmic microwave background large scale structures and the search for new physics inflation baryogenesis dark matter dark energy it also includes the majority of recent discoveries such as the precise determination of cosmological parameters using experiments like wmap and planck the discovery of the higgs boson at lhc the non discovery to date of supersymmetric particles and the search for the imprint of gravitational waves on the cmb polarization by planck and bicep this textbook is based on the authors courses on cosmology and aims at introducing particle cosmology to senior undergraduate and graduate students it has been especially written to be accessible even for those students who do not have a strong background in general relativity and quantum field theory the content of this book is organized in an easy to use style and students will find it a helpful research guide

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 courses

curvature cosmology proposes a new cosmological model very different from and more

elegant than the big bang theory curvature cosmology is based on two major hypotheses that hubble redshift is due to an interaction of photons with curved spacetime and that there is a pressure that acts to stabilise expansion and provides a static stable universe the main focus of this book is to describe these two hypotheses in detail and to examine all relevant cosmological data in the context of this new model of the universe this model proposes that though evolution of stars and galaxies is evident the statistical properties of the universe are the same at all places and at all times in short the universe is ageless has no defined beginning unlike the big bang model and carries no evidence of expansion despite the changeability of its components curvature cosmology is a complex book that calls for a paradigm shift in current cosmology and requires at least basic if not more complex knowledge of past and current cosmological models and equations

this book guides readers astronomers physicists and university students through central questions of practical cosmology a term used by the late allan sandage to denote the modern scientific endeavor to find the cosmological model best describing the universe of galaxies its geometry size age and matter composition the authors draw on their personal experience in astrophysics and cosmology to explain key concepts of cosmology both observational and theoretical and to highlight several items which give cosmology its special character these highlighted items are ideosyncratic features of the cosmic laboratory malmquist bias in the determination of cosmic distances theory of gravitation as a cornerstone of cosmological models crucial tests for checking the reality of space expansion methods of analyzing the structures of the universe as mapped by galaxies usefulness of fractals as a model to describe the large scale structure and new cosmological physics inherent in the friedmann world model

this book provides an extensive survey of all the physics necessary to understand the current developments in the field of fundamental cosmology as well as an overview of the observational data and methods it will help students to get into research by providing definitions and main techniques and ideas discussed today the book is divided into three parts part 1 summarises the fundamentals in theoretical physics needed in cosmology general relativity field theory particle physics part 2 describes the standard model of cosmology and includes cosmological solutions of einstein equations the hot big bang model cosmological perturbation theory cosmic microwave background anisotropies lensing and evidence for dark matter and inflation part 3 describes extensions of this model and opens up current research in the field scalar tensor theories supersymmetry the cosmological constant problem and acceleration of the universe topology of the universe grand unification and baryogenesis topological defects and phase transitions string inspired cosmology including branes and the latest developments the book provides details of all derivations and leads the student up to the level of research articles

this book brings together reviews from leading international authorities on the developments in the study of dark matter and dark energy as seen from both their cosmological and particle physics side studying the physical and astrophysical properties of the dark components of our universe is a crucial step towards the ultimate goal of unveiling their nature the work developed from a doctoral school sponsored by the italian society of general relativity and gravitation the book starts with a concise introduction to the standard cosmological model as well as with a presentation of the

theory of linear perturbations around a homogeneous and isotropic background it covers the particle physics and cosmological aspects of dark matter and dynamical dark energy including a discussion of how modified theories of gravity could provide a possible candidate for dark energy a detailed presentation is also given of the possible ways of testing the theory in terms of cosmic microwave background galaxy redshift surveys and weak gravitational lensing observations included is a chapter reviewing extensively the direct and indirect methods of detection of the hypothetical dark matter particles also included is a self contained introduction to the techniques and most important results of numerical e g n body simulations in cosmology this volume will be useful to researchers phd and graduate students in astrophysics cosmology physics and mathematics who are interested in cosmology dark matter and dark energy

this is a different kind of book about cosmology a field of major interest to professional astronomers physicists and the general public all research in cosmology adopts one model of the universe the hot big bang model but fred hoyle geoffrey burbidge and jayant narlikar take a different approach starting with the beginnings of modern cosmology they then conduct a wide ranging and deep review of the observations made from 1945 to the present day here they challenge many conventional interpretations the latter part of the book presents the authors own account of the present status of observations and how they should be explained the controversial theme is that the dependency on the hot big bang model has led to an unwarranted rejection of alternative cosmological models writing from the heart with passion and punch these three cosmologists make a powerful case for viewing the universe in a different light

primordial cosmology deals with one of the most puzzling and fascinating topics debated in modern physics the nature of the big bang singularity the authors provide a self consistent and complete treatment of the very early universe dynamics passing through a concise discussion of the standard cosmological model a precise characterization of the role played by the theory of inflation up to a detailed analysis of the anisotropic and inhomogeneous cosmological models the most peculiar feature of this book is its uniqueness in treating advanced topics of quantum cosmology with a well traced link to more canonical and pedagogical notions of fundamental cosmology this book traces clearly the backward temporal evolution of the universe starting with the robertsonndash walker geometry and ending with the recent results of loop quantum cosmology in view of the big bounce the reader is accompanied in this journey by an initial technical presentation which thanks to the fundamental tools given earlier in the book never seems heavy or obscure

did the universe have a beginning will it have an end or has it always been the same never changing this is the subject of cosmology the study of the universe and this book provides a perfect introduction to the subject for anyone that is interested in the wonders of our universe this book provides an accessible overview of the standard model of cosmology which is explained in six cosmological clues including evidence for the big bang and dark matter and dark energy the keystones of modern cosmology it takes readers through some of the most exciting questions in cosmology such as what evidence do we have that the universe started from the big bang has dark matter been observed will we ever know what dark energy is are the multiverses real and could the universe be a hologram this book is an ideal guide for anyone interested in finding out more about our universe it will be of interest to those studying cosmology for the first time including

readers without a scientific background who have an interest in looking up at the stars and wondering where they all came from key features contains the latest evidence for the big bang dark matter and dark energy and explores exciting scientific ideas such as inflation and multiverses provides a clear explanation of the main theories of how the universe evolved based on key observations the cosmological clues gives the reader a concise introduction to the scientific process using cosmology as the example and explores why it has been so successful in creating the technologies we have today

this book discusses cosmology from both an observational and a strong theoretical perspective the first part focuses on gravitation notably the expansion of the universe and determination of cosmological parameters before moving onto the main emphasis of the book the physics of the early universe and the connections between cosmological models and particle physics the book provides links with particle physics and with investigations of the theories beyond the standard model especially in connection to dark matter and matter antimatter asymmetry puzzles readers will gain a comprehensive account of cosmology and the latest observational results without requiring prior knowledge of relativistic theories making the text ideal for students features provides a self contained discussion of modern cosmology results without requiring any prior knowledge of relativistic theories enabling students to learn the first rudiments needed for a rigorous comprehension of cosmological concepts contains a timely discussion of the latest cosmological results including those from wmap and the planck satellite and discuss the cosmological applications of the nobel prize 2017 awarded discovery of gravitational waves by the ligo interferometer and the very high energy neutrinos discovered by the icecube detector includes original figures complementing mathematical derivations and accounting for the most important cosmological observations in addition to a wide variety of problems with a full set of solutions discussed in detail in an accompanying solutions manual available upon qualifying course adoption to view the errata please visit the authors personal webpage

this companion includes over 350 entries extensively cross referenced describing the modern view of cosmology including both theoretical ideas and the many strands of observational evidence

this book is an overview of cosmology today it reviews the big bang theory in its most recent form the lambda cdm model the book reviews the experimental evidence for the current model and details historical issues and current challenges including inflation dark matter and dark energy the book is targeted at a lay audience particularly students with a basic background in science and a general interest in astronomy

cosmology is a subject of much scientific and philosophical interest but accounts are usually either non mathematical or fully relativistic this book seeks to give readers a quantitative understanding of some important aspects of general relativistic cosmology starting only with mathematics and newtonian ideas in physics the book is concerned mainly with various models that have been proposed to explain the large scale structure of the universe the friedmann models steady state models and model universes involving pressure topics also covered include special relativity red shift magnitude relations radio source counts olbers paradox horizons and cosmological coincidences

we have consensus models for both particle physics i e standard model and cosmology i

e lambda cdm given certain assumptions about the initial conditions of the universe the marriage of the standard model sm of particle physics and lambda cdm cosmology has been phenomenally successful in describing the universe we live in however it is quite clear that all is not well the three biggest problems that the sm faces today are baryogenesis dark matter and dark energy these problems along with the problem of neutrino masses indicate the existence of physics beyond sm evidence of baryogenesis dark matter and dark energy all comes from astrophysical and cosmological observations cosmology also provides the best model dependent constraints on neutrino masses in this thesis i will try address the following problems textbf 1 addressing the origin of dark energy de using non standard neutrino cosmology and exploring the effects of the non standard neutrino cosmology on terrestrial and cosmological experiments textbf 2 addressing the matter anti matter asymmetry of the universe

for over three millennia most people could understand the universe only in terms of myth religion and philosophy between 1920 and 1970 cosmology transformed into a branch of physics with this remarkably rapid change came a theory that would finally lend empirical support to many long held beliefs about the origins and development of the entire universe the theory of the big bang in this book helge kragh presents the development of scientific cosmology for the first time as a historical event one that embroiled many famous scientists in a controversy over the very notion of an evolving universe with a beginning in time in rich detail he examines how the big bang theory drew inspiration from and eventually triumphed over rival views mainly the steady state theory and its concept of a stationary universe of infinite age in the 1920s alexander friedmann and georges lemaître showed that einstein s general relativity equations possessed solutions for a universe expanding in time kragh follows the story from here showing how the big bang theory evolved from edwin hubble s observation that most galaxies are receding from us to the discovery of the cosmic microwave background radiation sir fred hoyle proposed instead the steady state theory a model of dynamic equilibrium involving the continuous creation of matter throughout the universe although today it is generally accepted that the universe started some ten billion years ago in a big bang many readers may not fully realize that this standard view owed much of its formation to the steady state theory by exploring the similarities and tensions between the theories kragh provides the reader with indispensable background for understanding much of today s commentary about our universe

this book is a simple non technical introduction to cosmology explaining what it is and what cosmologists do peter coles discusses the history of the subject the development of the big bang theory and more speculative modern issues like quantum cosmology superstrings and dark matter

this compilation based upon recent peer reviewed journal publications encapsulates how the flat space cosmology model fsc has become the primary competitor to the inflationary standard model of cosmology new ideas concerning black holes dark energy and dark matter are presented and shown to correlate extremely well with astronomical observations

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