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a substantial update of this award winning and highly regarded cosmology textbook for advanced undergraduates in physics and astronomy

a contemporary and complete introduction to astrophysics for astronomy and physics majors taking a two semester survey course

this concise textbook the first volume in the ohio state astrophysics series covers all aspects of the interstellar and intergalactic medium for graduate students and advanced undergraduates this series aims to impart the essential knowledge on a topic that every astrophysics graduate student should know without going into encyclopedic depth this text includes a full discussion of the circumgalactic medium which bridges the space between the interstellar and intergalactic gas and the hot intracluster gas that fills clusters of galaxies its breadth of coverage is innovative as most current textbooks treat the interstellar medium in isolation the authors emphasise an order of magnitude understanding of the physical processes that heat and cool the low density gas in the universe as well as the processes of ionization recombination and molecule formation problems at the end of each chapter are supplemented by online projects data sets and other resources

a concise but thorough introduction to the observational data and theoretical concepts underlying modern astronomy astrophysics in a nutshell is designed for advanced undergraduate science majors taking a one semester course this well balanced and up to date textbook covers the essentials of modern astrophysics from stars to cosmology emphasizing the common familiar physical principles that govern astronomical phenomena and the interplay between theory and observation in addition to traditional topics such as stellar remnants galaxies and the interstellar medium astrophysics in a nutshell introduces subjects at the forefront of modern research including black holes dark matter gravitational lensing and dark energy all updated with some of the latest observational results to aid physical understanding mathematical derivations are kept as simple short and clear as possible and order of magnitude estimates dimensional analysis and scaling arguments are frequently used these no nonsense back of the envelope calculations train students to think like

physicists the book is amply illustrated with simple clear figures and each chapter ends with a set of problems in addition to serving as a course textbook astrophysics in a nutshell is an ideal review for a qualifying exam and a handy reference for teachers and researchers the most concise and up to date astrophysics textbook for science majors contains a broad and well balanced choice of traditional subjects and current research topics uses simple short and clear derivations of physical results trains students in the essential skills of order of magnitude analysis includes teaching problems with each chapter

provides a cumulative guide to the general lessons of modern scientific cosmology as well as the historical background that connects the nature of the universe with the reader s place in it provided by publisher

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this years volume begins with a career retrospective by astrophysicist h c van de hulst in which he describes the beginnings of radio astronomy his experiences at the yerkes and leiden observatories his work in cospar and the joy he found in tormenting astronomy students with the socratic method other contributions cover type ia supernovae and the hubble constant detection of extrasolar giant planets first results from hipparcos radio emission from solar flares star formation in galaxies along the hubble sequence herbig ae be stars the lyman alpha forest in the spectra of quasistellar objects chemical evolution of star forming regions carbon stars dwarf galaxies of the local group astronomical searches for earth like planets modeling extragalactic jets and simulations of structure formation in the universe annotation copyrighted by book news inc portland or

astrophysicists and astronomers have succeeded in formulating a consistent picture of the expanding universe that rests on highly symmetric solutions of einstein s theory of gravitation coupled to a single matter model this model seems to be valid from a fraction of a second after the big bang up to the present epoch and it explains the synthesis of the light nuclei the existence and properties of the microwave background as well as the global average properties of matter distribution it also allows the accommodation of such global phenomena as the overall expansion of the system of galaxies the number counts of celestial objects the evolutionary effects in quasars and radio galaxies as well as the fact that the age information obtained from meteorites minerals and stars agrees well with the expansion rate this standard model actually includes a wide range of possible cosmological models which differ in the values of various in principle

measurable parameters e g the expansion velocity the deceleration of the galaxy system the mean density of matter and radiation etc but which share some basic properties cosmological models describe a world that expands from a hot big bang that is globally homogeneous isotropic and in a thermochemical equilibrium and which has developed inhomogeneous structures e g galaxies from initial small density fluctuations through gravitational instability this volume is the record of intense discussions between physicists astronomers and astrophysicists it focuses on four main issues how do galaxies form how well do we understand the formation of large scale structures what is the relation between cosmology and fundamental theories of particle physics what do we know about the global properties of the universe among the topics illuminated from various perspectives are the nature and distribution of dark matter in the universe the possible discrepancy in recent astronomical data between the age and the expansion time of the universe and speculations about the very early universe this volume provides not only an in depth status report on cosmology but also defines areas where progress is to be expected in the near future goal of this dahlem workshop to examine conceptual theoretical and observational problems of the formation of structure in the universe

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