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

einstein's general theory of relativity is introduced in this advanced undergraduate textbook topics covered include geometric formulation of special relativity the principle of equivalence einstein's field equation and its spherical symmetric solution as well as cosmology

in this book basic introduction to the universe i have discussed the universe in

very simple language at the end of the book some important information is highlighted this book is an extension of my other book children s universe this book is for everyone i would be very happy if you like this book and give your feedback your valuable feedback will enrich the book in the next edition

written for the general reader this book provides an overview of modern theoretical physics focusing on the history and development of theoretical physics over the past century while providing supplemental mathematical derivations for the more advanced reader it tells the ongoing challenges to unify theories for the fundamental forces of nature and reveals the interplay of the foundations of classical mechanics and maxwell s equations special and general relativity theory quantum mechanics and quantum field theory the standard model of particle physics the theoretical framework of string theory the cosmological theory for the evolution of the universe and the theory of black holes this subject matter brings forth the most interesting and revolutionary ideas in modern theoretical physics taking the reader through a fascinating journey with a broad overview of the evolving universe that we live in

working physicists and especially astrophysicists value a good back of the envelope calculation meaning a short elegant computation or argument that starts from general principles and leads to an interesting result this book guides students on how to understand astrophysics using general principles and concise calculations endeavouring to be elegant where possible and using short computer programs where necessary the material proceeds in approximate historical order the book begins with the enlightenment era insight that the orbits of the planets is easy but the orbit of the moon is a real headache and continues to deterministic chaos this is followed by a chapter on spacetime and black holes four chapters reveal how microphysics especially quantum mechanics allow us to understand how stars work the last two chapters are about cosmology bringing us to 21st century developments on the microwave background and gravitational waves

general relativity is a subject that most undergraduates in physics are particularly curious about but it has a reputation for being very difficult this book provides as gentle an introduction to general relativity as possible leading you through the necessary mathematics in order to arrive at important results of course you cannot avoid the mathematics of general relativity altogether but using this book you can gain an appreciation of tensors and differential geometry at a pace you can keep up with early chapters build up to a complete derivation of einstein s equations while the final chapters cover the key applications on black holes cosmology and gravitational waves it is designed as a coursebook with just enough material to cover in a one semester undergraduate class but it is also accessible to any numerate readers who wish to appreciate the power and beauty of einstein s creation for themselves

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

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

this concise textbook covers all aspects of the interstellar and intergalactic medium for graduate students and advanced undergraduates

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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