

Explorations Introduction To Astronomy

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an introduction to astronomy in 10 chapters for serious beginners

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astronomy is the field of science devoted to the study of astronomical objects such as stars galaxies and nebulae astronomers have gathered a wealth of knowledge about the universe through hundreds of years of painstaking observations these observations are interpreted by the use of physical and chemical laws familiar to mankind these interpretations supply information about the nature of these astronomical objects allowing for the deduction of their surface and interior conditions the science associated with these interpretations is called astrophysics an introduction to astronomy and astrophysics offers a comprehensive introduction to astronomy and astrophysics complete with illustrative examples and illuminating homework problems requiring a familiarity with basic physics and mathematics this undergraduate level textbook addresses key physics concepts relevant to stellar observations including radiation electromagnetic spectrum photometry continuous and discrete spectrum and spectral lines describes instruments used for astronomical observations as well as how the radiation received is characterized and interpreted to determine the properties of stars examines the structure of stars the basic equations that explain stars in equilibrium and the fusion reactions occurring in stellar cores discusses the evolution of stars the solar system the dynamics of galaxies and the fundamentals of modern cosmology explores the universe at high redshifts where it is dominated by objects such as active galaxies an introduction to astronomy and astrophysics teaches students how to interpret the night sky providing them with a critical understanding of the stars and sun solar system extrasolar planets stars and galaxies the book is thoroughly revised to make it an essential textbook for students the second edition introduces the following changes new solutions are provided at the end of all the chapters the number of problems has increased major chapters have been considerably revised and new developments in this field have been introduced

this textbook provides the basic theoretical and practical knowledge of astronomy and astrophysics it provides an overview from classical astronomy and observational methods to solar physics and astrophysics of stars and galaxies it concludes with chapters on cosmology astrobiology and mathematical and numerical methods numerous color illustrations examples of calculations and exercises with solutions make this work a useful companion to undergraduate astronomy lectures the book is suitable for students of physics and astronomy at teacher training level or in the bachelor s degree but also people interested in natural sciences with appropriate basic knowledge of mathematics and physics will find here an appealing introduction to the subject this fourth edition has been updated and revised with respect to the latest developments in astronomy the chapter on mathematical methods has been redesigned and the software used is now exclusively python from the contents spherical astronomy history of astronomy celestial mechanics astronomical instruments physics of the bodies of the solar system the sun state variables of the stars stellar atmospheres stellar structure stellar evolution interstellar matter the galaxy extragalactic systems cosmology astrobiology mathematical methods this book is a translation of the original german 4th edition einführung in astronomie und astrophysik by arnold hanslmeier published by springer verlag gmbh germany part of springer nature in 2020 the translation was done with the help of artificial intelligence machine translation by the service deepl com a subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation springer nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

the middle east is the birthplace of astronomy and the centre for its development during the medieval period in this brief introduction john steele offers an intriguing insight into middle eastern achievements in astronomy and their profound influence on the rest of the world amongst other things the book traces the late babylonians ingenious schemes for modelling

planetary motion it also reveals how medieval islamic advances in the study of the heavens and the design of precise astronomical instruments led to breakthroughs by renaissance practitioners such as copernicus and kepler an invaluable introduction to one of the oldest sciences in the world

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