

Carroll Ostlie Modern Astrophysics

An Introduction to Modern Astrophysics
An Introduction to Modern Stellar Astrophysics
Extragalactic Astronomy and Cosmology
Introduction to Modern Astrophysics, Pearson New International Edition
EBook
The Fundamentals of Modern Astrophysics
Astrophysics
Theoretical Astrophysics: Volume 2, Stars and Stellar Systems
Essential Guide to Astrophysics
Wizards, Aliens, and Starships
On the Topology and Future Stability of the Universe
Instructor Solutions Manual
Astrophysics
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Reviews in Frontiers of Modern Astrophysics
A New Method for Nuclear Structure Measurement of Neutron Deficient Nuclei
Seminars of the United Nations Programme on Space Applications
The Frequency of Carbon-enhanced Metal-poor Stars and the Origin of Carbon in the Universe
Numerical Study of Rotating Core Collapse Supernovae
The Nearby Galaxies Supernova Search Project
Essays on the Frontiers of Modern Astrophysics and Cosmology
Bradley W. Carroll Dale A. Ostlie Peter Schneider Bradley W. Carroll Mikhail Ya Marov T. Padmanabhan Naveen Basu Charles L. Adler Hans Ringström Bradley W. Carroll Judith A. Irwin Dale A. Ostlie Petr Kabáth Ralph Ryan Christopher Clement Brian Elliott Marsteller Mark Tobias Bollenbach Louis-Gregory Strolger Santhosh Mathew
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a comprehensive and engaging textbook covering the entire astrophysics curriculum in one volume

this exciting new text opens the entire field of modern astrophysics to the reader by using only

the basic tools of physics designed for the junior level astrophysics course each topic is approached in the context of the major unresolved questions in astrophysics the core chapters have been designed for a course in stellar structure and evolution while the extended chapters provide additional coverage of the solar system galactic structure dynamics evolution and cosmology two versions of this text are available an introduction to modern stellar astrophysics chapters 1 17 and an introduction to modern astrophysics chapters 1 28 computer programs included with the text allow students to explore the physics of stars and galaxies in designing a curriculum instructors can combine core and extended chapters with the optional advanced sections so as to meet their individual goals up to date coverage of current astrophysical discoveries are included this text emphasizes computational physics including computer problems and on line programs this text also includes a selection of over 500 problems for additional information and computer codes to be used

this book outlines the fundamentals of this fascinating branch of astronomy and explores the forefront of astronomical research the author s passion for the topic shines with an intensity that rivals the book s many colourful illustrations and will deeply inspire the reader the cogently written text introduces the reader to the astronomy of galaxies their structure their active galactic nuclei their evolution and their large scale distribution starting with a detailed description of our milky way and a review of modern observational and theoretical cosmology the book goes on to examine the formation of structures and astronomical objects in the early universe

an introduction to modern astrophysics second edition has been thoroughly revised to reflect the dramatic changes and advancements in astrophysics that have occurred over the past decade the second edition of this market leading book has been updated to include the latest results from relevant fields of astrophysics and advances in our theoretical understanding of astrophysical phenomena designed for sophomore level astrophysics for astronomy and physics majors an introduction to modern astrophysics is now offered in two derivative versions introduction to modern stellar astrophysics

the fundamentals of modern astrophysics provides an overview of the modern science of astrophysics it covers the sun solar system bodies exoplanets stars and star life cycle planetary systems origin and evolution basics of astrobiology our galaxy the milky way other galaxies and galactic clusters a general view of the universe its structure evolution and fate modern views and advanced models of cosmology as well as the synergy of micro and macro physics standard model superstring theory multiversity and worm holes the main concepts of modern astrophysics and prospects for future studies are accompanied by numerous illustrations and a summary of the advanced projects at various astronomical facilities and space missions dr marov guides readers through a maze of complicated topics to demystify the field and open its wonders to all

this authoritative textbook the second volume of a comprehensive three volume course on theoretical astrophysics deals with stellar physics designed to help graduate students and researchers develop an understanding of the key physical processes governing stars and stellar systems it teaches the fundamentals and then builds on them to give the reader an in depth understanding of advanced topics the book s modular design allows the chapters to be approached individually yet seamless transitions create a coherent and connected whole it can be used alone or in conjunction with volume i which covers a wide range of astrophysical processes and the forthcoming volume iii on galaxies and cosmology after reviewing the key observational results and nomenclature used in stellar astronomy the book develops a solid understanding of central concepts including stellar structure and evolution the physics of stellar remnants pulsars binary stars the sun and planetary systems interstellar medium and globular clusters throughout the reader s comprehension is developed and tested with more than seventy five exercises this indispensable volume provides graduate students with a self contained introduction to stellar physics and will allow them to master the material sufficiently to read and engage in research with heightened understanding

essential guide to astrophysics is perfect for anyone who has ever looked up at the night sky and wondered about the universe written clearly and engagingly it covers the basics of astrophysics from the history of the field to cutting edge research we start with telescopes and other tools astronomers use to study the universe then dive into stars their life cycles how they produce energy and what happens when they die galaxies are another major topic including our milky way and other types found throughout the universe the book explores the big bang theory dark matter dark energy and the ultimate fate of the universe the search for life beyond earth is also covered including finding exoplanets and conditions necessary for life we explore our solar system including the sun planets moons and other objects essential guide to astrophysics tackles complex topics like black holes gravitational waves and the future of space exploration with helpful appendices explaining any math or unfamiliar terms if you ve ever been curious about the universe essential guide to astrophysics is a great place to start

a great book by itself or as a starting point for exploring the physics of space exploration as well as the classics in science fiction robert schaefer new york journal of books from teleportation and space elevators to alien contact and interstellar travel science fiction and fantasy writers have come up with some brilliant and innovative ideas yet how plausible are these ideas for instance could mr weasley s flying car in the harry potter books really exist which concepts might actually happen and which ones wouldn t work at all wizards aliens and starships delves into the most extraordinary details in science fiction and fantasy such as time warps shape changing rocket launches and illumination by floating candle and shows readers the physics and math behind the phenomena with simple mathematical models and in most cases using no more than high school algebra charles adler ranges across a plethora of remarkable imaginings from the works of ursula k le guin to star trek and avatar to explore what might become reality adler explains why fantasy in the harry potter and dresden files

novels cannot adhere strictly to scientific laws and when magic might make scientific sense in the muggle world he examines space travel and wonders why it isn't cheaper and more common today. Adler also discusses exoplanets and how the search for alien life has shifted from radio communications to space-based telescopes. He concludes by investigating the future survival of humanity and other intelligent races throughout. He cites an abundance of science fiction and fantasy authors and includes concise descriptions of stories as well as an appendix on Newton's laws of motion.

The standard starting point in cosmology is the cosmological principle, the assumption that the universe is spatially homogeneous and isotropic. After imposing this assumption, the only freedom left as far as the geometry is concerned is the choice of one out of three permissible spatial geometries and one scalar function of time. Combining the cosmological principle with an appropriate description of the matter leads to the standard models. It is worth noting that these models yield quite a successful description of our universe. However, even though the universe may or may not be almost spatially homogeneous and isotropic, it is clear that the cosmological principle is not exactly satisfied. This leads to several questions. The most natural one concerns stability: given initial data corresponding to an expanding model of the standard type, do small perturbations give rise to solutions that are similar to the future? Another question concerns the shape of the universe: what are the restrictions if we only assume the universe to appear almost spatially homogeneous and isotropic to every observer? The main purpose of the book is to address these questions. However, to begin with, it is necessary to develop the general theory of the Cauchy problem for the Einstein-Vlasov equations in order to make the results accessible to researchers who are not mathematicians but who are familiar with general relativity. The book contains an extensive prologue putting the results into a more general context.

Astrophysics: Decoding the Cosmos is an accessible introduction to the key principles and theories underlying astrophysics. This text takes a close look at the radiation and particles that we receive from astronomical objects, providing a thorough understanding of what this tells us. Drawing the information together using examples to illustrate the process of astrophysics, chapters dedicated to objects showing complex processes are written in an accessible manner and pull relevant background information together to put the subject firmly into context. The intention of the author is that the book will be a tool chest for undergraduate astronomers wanting to know the how of astrophysics. Students will gain a thorough grasp of the key principles, ensuring that this often difficult subject becomes more accessible.

This exciting text opens the entire field of modern astrophysics to the reader by using only the basic tools of physics designed for the junior-level astrophysics course. Each topic is approached in the context of the major unresolved questions in astrophysics. The core chapters have been designed for a course in stellar structure and evolution, while the extended chapters provide additional coverage of the solar system, galactic structure, dynamics, evolution, and

cosmology

this book presents a collection of focused review papers on the advances in topics in modern astronomy astrophysics cosmology and planetary science the chapters are written by expert members of an eu funded erasmus program of strategic partnership between several european institutes the 13 reviews comprise the topics space debris optical measurements meteors light from comets and asteroids extrasolar enigmas from disintegrating exoplanets to exo asteroids physical conditions and chemical abundances in photoionized nebulae from optical spectra observational constraints on the common envelope phase a modern guide to quantitative spectroscopy of massive ob stars explosion mechanisms of core collapse supernovae and their observational signatures low mass and substellar eclipsing binaries in stellar clusters globular cluster systems and galaxy formation hot atmospheres of galaxies groups and clusters of galaxies the establishment of the standard cosmological model through observations exploiting solar visible range observations by inversion techniques from flows in the solar subsurface to a flaring atmosphere starburst galaxies the book is intended for the general astronomical community as well as for advanced students who could use it as a guideline inspiration and overview for their future careers in astronomy

this book is a collection of fourteen essays that describe an inspiring journey through the universe and discusses popular science topics that modern physics and cosmology are struggling to deal with what is our place in the universe and what happens in the magnificent cosmos where we exist for a brief amount of time in an unique way that incorporates mythological and philosophical perspectives the essays in this work address the big questions of what the universe is how it came into being and where it may be heading this exciting adventure is a rich scientific history of elegant physics mathematics and cosmology as well as a philosophical and spiritual pursuit fueled by the human imagination

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Introduction

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