

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
On the Topology and Future Stability of the Universe
Wizards, Aliens, and Starships
Skepticism, Relativism, and Religious Knowledge
Astrophysics
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Seminars of the United Nations Programme on Space Applications
A New Method for Nuclear Structure Measurement of Neutron Deficient Nuclei
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The Frequency of Carbon-enhanced Metal-poor Stars and the Origin of Carbon in the Universe
Numerical Study of Rotating Core Collapse Supernovae
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The Messenger
Library and Information Services in Astronomy V
Essays on the Frontiers of Modern Astrophysics and Cosmology
Your Cosmic Context
Bradley W. Carroll Dale A. Ostlie Peter Schneider Bradley W. Carroll Mikhail Ya Marov Hans Ringström Charles L. Adler Michael G. Harvey Judith A. Irwin Dale A. Ostlie Ralph Ryan Christopher Clement Petr Kabath Brian Elliott Marsteller Mark Tobias Bollenbach Sandra Ricketts Santhosh Mathew Todd Duncan

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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 multiversality 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

a general introduction to the initial value problem for einstein s equations coupled to collisionless matter the book contains a proof of future stability of models of the universe consistent with the current observational data and a discussion of the restrictions on the possible shapes of the universe imposed by observations

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

skepticism relativism and religious knowledge examines the challenges of skepticism and relativism to religious knowledge after the demise of classical foundationalism whereas skepticism doubts our capacity to know truth relativism doubts whether we can find a sufficiently objective perspective to adjudicate strong disagreement about truth thus relativism involves skepticism about rationality rather than truth in developing a critique of responses to these challenges by karl barth and reformed epistemology michael g harvey develops a kierkegaardian perspective on religious knowledge informed by wittgenstein's philosophy this perspective is based on a hermeneutical model of rationality that appeals to what we hold in common rather than private and parochial foundations in order to settle disagreement although doubt is necessary to produce more truth preserving beliefs we must scrutinize our doubts as well as beliefs in order to prevent the belief forming mechanism of doubt from degenerating into a general mood of skepticism about rationality and truth more fundamentally we must realize that skepticism and relativism are rooted in attitudes of alienation whereas epistemology aims at a non alienated view of the world christianity aims at a non alienated way of living through faith that enables both our beliefs and lives to correspond with the truth

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

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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