

Astrophysics: A Very Short Introduction

By James Binney and Michael Merrifield

In this engaging and accessible Very Short , astrophysicists James Binney and Michael Merrifield guide readers through the captivating realm of astrophysics, unlocking the mysteries of stars, galaxies, and the vast expanse of the universe. From the birth of stars to the death of black holes, from the formation of galaxies to the evolution of the cosmos, this book offers a comprehensive yet approachable exploration of one of the most captivating disciplines of modern science.



Astrophysics: A Very Short Introduction (Very Short Introductions) by James Binney

★ ★ ★ ★ ☆ 4.6 out of 5

Language : English
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Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
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Lending : Enabled



Beginning with an to the fundamental principles of astrophysics, Binney and Merrifield delve into the heart of the subject, delving into the properties, behavior, and evolution of stars. Readers will discover the intricate processes that govern the lives of stars, from their formation in stellar nurseries to their eventual fate as white dwarfs, neutron stars, or black

holes. They will also explore the fascinating diversity of stars, including red dwarfs, supergiants, and pulsars.

Moving beyond individual stars, the authors turn their attention to galaxies, the vast collections of billions of stars that populate the universe. They discuss the different types of galaxies, their structure, dynamics, and evolution. Readers will delve into the mysteries of spiral galaxies, elliptical galaxies, and irregular galaxies, and explore the fascinating phenomena of galaxy mergers and the formation of galaxy clusters.

No exploration of astrophysics would be complete without a journey into the vast expanse of the universe itself. Binney and Merrifield guide readers through the complexities of cosmology, the study of the origin and evolution of the universe. They discuss the Big Bang theory, the cosmic microwave background, and the large-scale structure of the cosmos. They also explore the latest discoveries in astrophysics, including the detection of gravitational waves and the search for dark matter and dark energy.

Written in an engaging and accessible style, *Astrophysics: A Very Short* is an ideal resource for anyone curious about the wonders of the night sky. Whether you are a student, a teacher, or simply an armchair astronomer, this book will open your eyes to the beauty and mystery of the universe.

Reviews

"A wonderful to the field of astrophysics. Binney and Merrifield have a knack for explaining complex concepts in a clear and engaging manner. Highly recommended." - Professor Neil deGrasse Tyson, American Museum of Natural History

"A concise and authoritative guide to the cosmos. Astrophysics: A Very Short is a must-read for anyone interested in understanding the universe around us." - Professor Martin Rees, Astronomer Royal

About the Authors

James Binney is a professor of theoretical astrophysics at the University of Oxford. He is a fellow of the Royal Society and a member of the International Astronomical Union. His research interests include the dynamics of galaxies, the formation and evolution of stars, and the structure of the universe.

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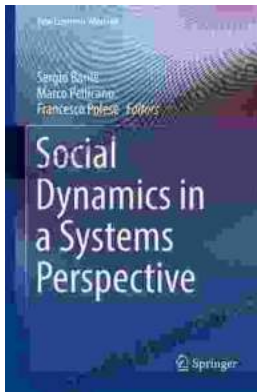


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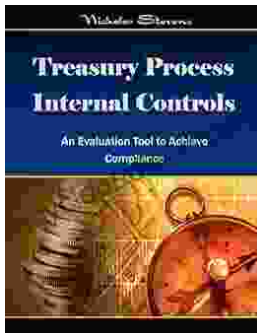
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