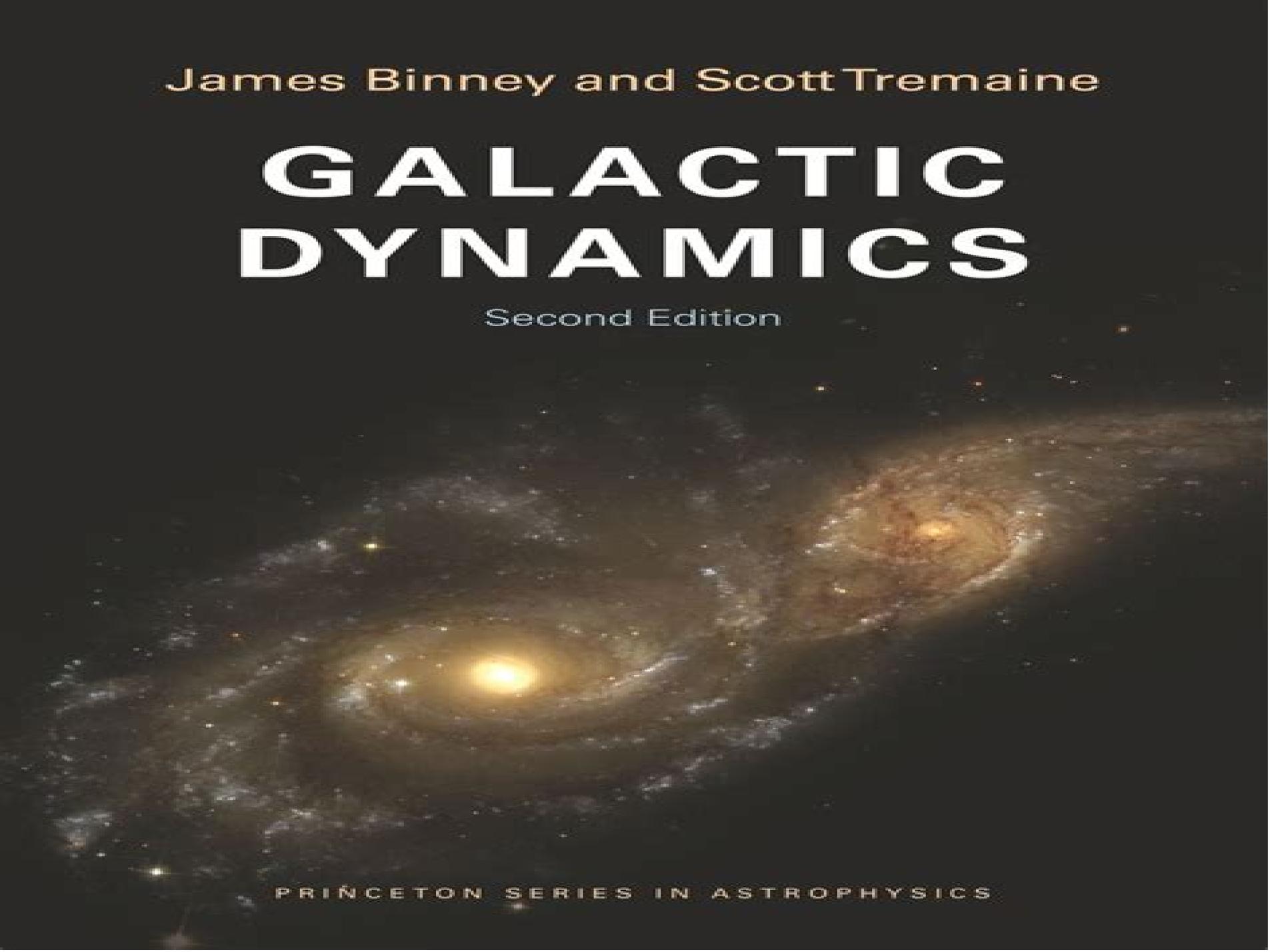


James Binney and Scott Tremaine

# GALACTIC DYNAMICS

Second Edition

PRINCETON SERIES IN ASTROPHYSICS

The background of the cover is a photograph of two galaxies in the process of interacting. One galaxy is in the foreground, showing a bright central core and a diffuse, irregular structure. The second galaxy is behind it, appearing as a more regular, barred spiral galaxy with a distinct central core and spiral arms. The overall scene is set against a dark, star-filled background.

# Galactic Dynamics Second Edition

**James Binney, Scott Tremaine**



## **Galactic Dynamics Second Edition:**

*Galactic Dynamics* James Binney, Scott Tremaine, 2008-01-27 An authoritative introduction to galactic astrophysics for advanced undergraduate students graduate students and researchers this second edition has been updated with advances in the subject since the 1987 edition *Galactic Dynamics*, 1994 **Theory of Stellar Atmospheres** Ivan Hubeny, Dimitri Mihalas, 2014-10-26 The most authoritative synthesis of the quantitative spectroscopic analysis of stellar atmospheres This book provides an in depth and self contained treatment of the latest advances achieved in quantitative spectroscopic analyses of the observable outer layers of stars and similar objects Written by two leading researchers in the field it presents a comprehensive account of both the physical foundations and numerical methods of such analyses The book is ideal for astronomers who want to acquire deeper insight into the physical foundations of the theory of stellar atmospheres or who want to learn about modern computational techniques for treating radiative transfer in non equilibrium situations It can also serve as a rigorous yet accessible introduction to the discipline for graduate students Provides a comprehensive up to date account of the field Covers computational methods as well as the underlying physics Serves as an ideal reference book for researchers and a rigorous yet accessible textbook for graduate students An online illustration package is available to professors at [press.princeton.edu](http://press.princeton.edu) **Astronomers' Library** Karen Masters, 2024-04-23 Indulge in this collection of the best astronomy books from the past 800 years The Astronomers Library is a rich history of astronomy and astrology publishing across Europe This is a carefully selected arrangement of publications from all over the continent Germany France Italy Netherlands Spain and the UK And of course as the original world leader in astrology the middle east is featured with multiple books from Persia Humankind has looked to the heavens since the dawn of time wondering what is out there as well as how everything works and originally who was responsible for it Every tribe race and civilization has wondered about our place in the universe and what lies beyond and what lies within it below our feet Lately attention has turned to the origins of the universe From the turn of the millennium knowledge and ideas were recorded first on tablets or rock then in the form of simple manuscripts and eventually in a much more elaborate fashion as illustrative and engraving skills evolved The advent of printed books saw the production of highly illustrated tomes that showed off the skills of the printers as well as the newfound knowledge of the scholars and artists that wrote them Many of these works pushed the boundaries of illustrated publishing and continue to do so to this day They commanded expert illustrators and skilled engravers and hence didn't come cheaply They were treasured in the libraries of the wealthy and their intrinsic worth has meant that there is an incredible wealth of beautifully preserved historic examples from the 14th century onwards The significant difference we acknowledge today between astronomy and astrology has a relatively recent past and the stars have long been associated with creatures gods characters and all sorts of divine beings The study of such has a long fascinating history that is shown in beautiful detail in the pages of these many beautiful books and the transition from seeing the stars as characters to understanding them as

spinning celestial beings and part of our huge universe is akin to witnessing the history of the world As far back as the tenth century Persian scholars such as Abd al Rahman al Sufi was recording his findings observations and speculations on the wider universe in his Book of Fixed Stars The focus turned to Europe in the Middle Ages with Germany Holland and England the centres of study and publication Following the Copernican Revolution observation and study underwent a radical change paving the way for astronomers such as Kepler Galilei and Newton to shed further light on the nature of the planets and stars of our known systems and the ground beneath our feet Each of those famous names contribute to the illustrated books that are featured within

**Astrophysics in a Nutshell** Dan Maoz, 2016-02-23 The ideal one semester astrophysics introduction for science undergraduates now expanded and fully updated Winner of the American Astronomical Society's Chambliss Award Astrophysics in a Nutshell has become the text of choice in astrophysics courses for science majors at top universities in North America and beyond In this expanded and fully updated second edition the book gets even better with a new chapter on extrasolar planets a greatly expanded chapter on the interstellar medium fully updated facts and figures on all subjects from the observed properties of white dwarfs to the latest results from precision cosmology and additional instructive problem sets Throughout the text features the same focused concise style and emphasis on physics intuition that have made the book a favorite of students and teachers Written by Dan Maoz a leading active researcher and designed for advanced undergraduate science majors Astrophysics in a Nutshell is a brief but thorough introduction to the observational data and theoretical concepts underlying modern astronomy Generously illustrated it covers the essentials of modern astrophysics emphasizing the common physical principles that govern astronomical phenomena and the interplay between theory and observation while also introducing subjects at the forefront of modern research including black holes dark matter dark energy and gravitational lensing 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 current astrophysics textbook for science majors now expanded and fully updated with the latest research results Contains a broad and well balanced selection of traditional and current topics Uses simple short and clear derivations of physical results Trains students in the essential skills of order of magnitude analysis Features a new chapter on extrasolar planets including discovery techniques Includes new and expanded sections and problems on the physics of shocks supernova remnants cosmic ray acceleration white dwarf properties baryon acoustic oscillations and more Contains instructive problem sets at the end of each chapter Solutions manual available only to professors

**Secular Evolution of Galaxies** Jesús Falcón-Barroso, Johan H. Knapen, 2012 The formation and evolution of galaxies is one of the most important topics in modern astrophysics Secular evolution refers to the relatively slow dynamical evolution due to internal processes induced by a galaxy's spiral arms bars galactic winds black holes and dark matter haloes It plays an important role in the evolution of spiral galaxies with major consequences for galactic bulges the transfer of angular momentum and the distribution of a galaxy's constituent stars gas and dust This

internal evolution is in turn the key to understanding and testing cosmological models of galaxy formation and evolution Based on the twenty third Winter School of the Canary Islands Institute of Astrophysics this volume presents reviews from nine world renowned experts on the observational and theoretical research into secular processes and what these processes can tell us about the structure and formation of galaxies The volume provides a firm grounding for graduate students and early career researchers working on galactic dynamics and galaxy evolution *Black Holes in the Era of Gravitational-Wave Astronomy* Manuel Arca Sedda,Elisa Bortolas,Mario Spera,2024-05-14 *Black Holes in the Era of Gravitational Wave Astronomy* provides a multidisciplinary up to date view of the physics of black holes along with an exhaustive overview of crucial open questions and recent advancements in the astrophysics of black holes in the wake of incredible advancements made in the last decade It includes discussions on improvements in theoretical modeling and observational perspectives for black holes of all sizes along with associated challenges The book s structure and themes will enable an entwined understanding of black hole physics at all scales thus avoiding the compartmentalized view that is typical of more specialized manuscripts and reviews This book is a complete reference for scientists interested in a multidirectional approach to the study of black holes It provides substantial discussions about the interplay of different types of black holes and gives professionals a heterogeneous and comprehensive overview of the astrophysics of black holes of all masses Focuses on recent advances and future perspectives surrounding black holes providing researchers with a clear view of cutting edge research Offers readers a multidisciplinary fresh view on black holes discussing and reviewing the most recent advancements in theoretical numerical and observational techniques put in place to detect black holes Provides a bridge among different black hole areas fostering new collaborations among professionals working in different but intrinsically interconnected fields

**Star Formation in Galaxy Evolution: Connecting Numerical Models to Reality** Nickolay Y. Gnedin,Simon C. O. Glover,Ralf S. Klessen,Volker Springel,2015-09-09 This book contains the elaborated and updated versions of the 24 lectures given at the 43rd Saas Fee Advanced Course Written by four eminent scientists in the field the book reviews the physical processes related to star formation starting from cosmological down to galactic scales It presents a detailed description of the interstellar medium and its link with the star formation And it describes the main numerical computational techniques designed to solve the equations governing self gravitating fluids used for modelling of galactic and extra galactic systems This book provides a unique framework which is needed to develop and improve the simulation techniques designed for understanding the formation and evolution of galaxies Presented in an accessible manner it contains the present day state of knowledge of the field It serves as an entry point and key reference to students and researchers in astronomy cosmology and physics *Theoretical Models of Gamma-ray Burst Central Engines* Brian David Metzger,2009 **Revue roumaine des sciences techniques** ,1968 *Implications of Intense Magnetic Fields on Neutron-star Physics* Jeremy Samuel Heyl,1998 **Choice** ,2008 **The Observatory** ,1989 **Sky and Telescope** Charles Federer,1959 **Space World** ,1969

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