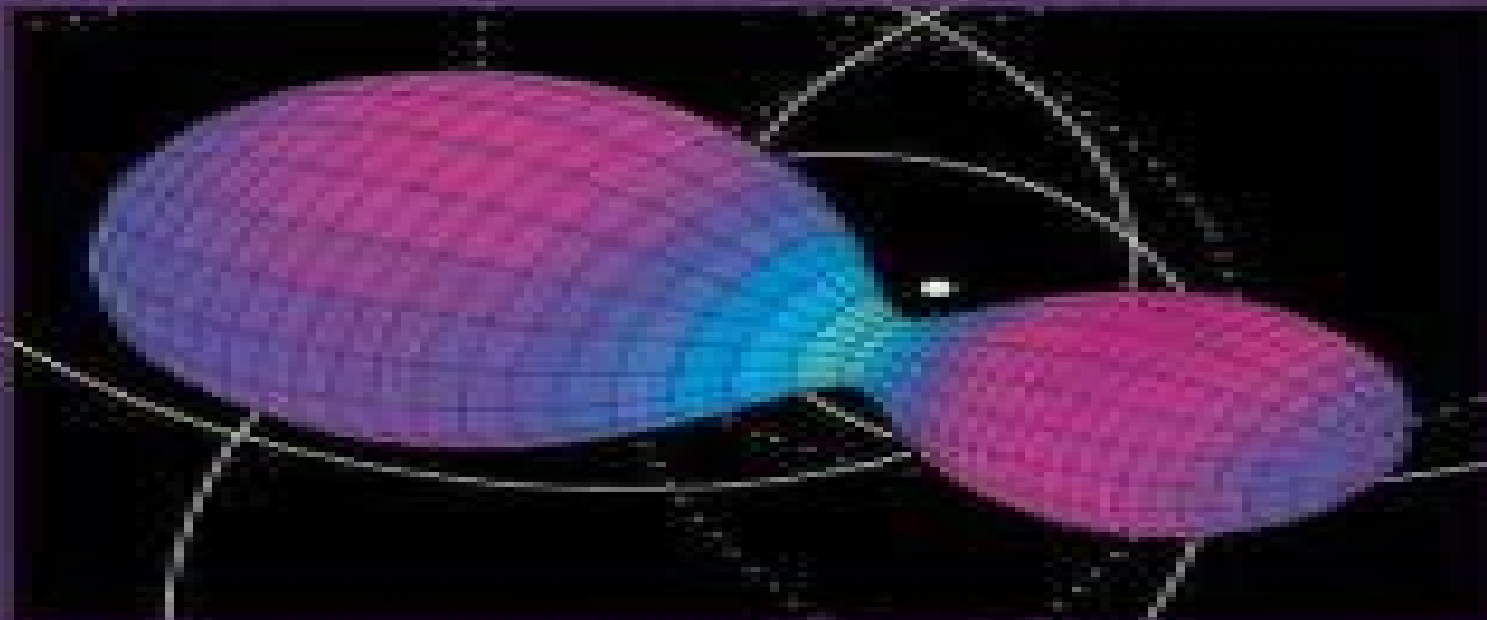


# An Introduction to Close Binary Stars



R. W. Hilditch

# Introduction To Close Binary Stars

**C. G. Campbell**



## **Introduction To Close Binary Stars:**

An Introduction to Close Binary Stars R. W. Hilditch, 2001-03-12 Binary systems of stars are as common as single stars. They are of fundamental importance because they allow stellar masses, radii and luminosities to be measured directly and explain a host of diverse and energetic phenomena including X-ray binaries, cataclysmic variables, novae, symbiotic stars and some types of supernovae. This 2001 book was the first to provide a pedagogical and comprehensive introduction to binary stars. It combines theory and observations at all wavelengths to develop a unified understanding of binaries of all categories. It comprehensively reviews methods for calculating orbits, the Roche model, ideas about mass exchange and loss, methods for analysing light curves, the masses and dimensions of different binary systems and imaging the surfaces of stars and accretion structures. This book provides a thorough introduction to the subject for advanced undergraduate and graduate students. Researchers will also find this to be an authoritative reference.

**A Guide to Close Binary Systems** Edwin Budding, Osman Demircan, 2022-05-12 Introduction to Close Binary Systems provides a comprehensive survey and guide to the fast-moving field of multiple, specifically binary stars with an up-to-date account of research around close, i.e. interacting pairs. Such interactions allow direct quantification of stellar properties, opening up factual insights into basic building blocks of the Universe. The book provides a much-needed update for the seminal *Close Binary Systems* of Zdeněk Kopal. Following a comparable plan, it presents relevant subject matter with an emphasis on building a framework of understanding to serve as a supporting resource for students and researchers. The text starts from a general historical background and progresses into the main theoretical ideas supporting our *prima facie* interpretation of observations. The central chapters explore further into these observational methods arranged according to the classic subdivisions of astrometry, spectroscopy and photometry. Optimal inversion of observational data into model parametrization is a theme through these chapters. Significant here is the problem of how non-uniqueness in modelling affects interpretation. The underlying issues of stellar evolution bearing on observational evidence become paramount in the last four chapters. The book proceeds step by step from directly understandable examples of unevolved pairs to the challenging cases where stars are found in more and more extreme conditions leading up to the mergers of massive black hole pairs seen in the new field of gravitational wave astronomy. This is a valuable reference for postgraduate and advanced undergraduate students working in mainstream areas of stellar astrophysics with applications also to exoplanet research which shares some methodological features. Course designers for stellar astrophysics will find a useful selection of topics within this book.

**Key features:** Provides a well-explained and backgrounded up-to-date account of close binary systems in a fast-moving field of research that is growing in scientific importance. Surveys a wide range of case studies within the context of binary and multiple star systems. Fills an acknowledged gap in current literature.

**Cover Image:** A public memorial to Zdeněk Kopal in his home town birthplace of Litomyšl in Czechia.

Eclipsing Binary Stars: Modeling and Analysis Josef Kallrath, Eugene F. Milone, 2009-08-14 Have you

ever stopped at a construction project on the way to your office and the day's astrophysics. Remember the other onlookers folks just enjoying the spectacle as we all do in following developments away from our areas of active work. We are excited and thrilled when the Hubble Space Telescope discovers an Einstein Cross when the marvelous pulsars enter our lives and when computer scientists put a little box on our desk that outperforms yesterday's giant machines. We are free to make use of such achievements and we respect the imagination and discipline needed to bring them about just as onlookers respect the abilities and planning needed to create a building they may later use. After all, each of us contributes in our own areas as best as we can. In addition to the serious onlookers, there will be passersby who take only a casual look at the site. They may use the building later but have little or no interest in its construction and give no thought to the resources needed to bring it to completion. Upon arriving at work, those persons write astronomy and astrophysics books at various levels in which they must say something about close binary stars. Usually a page or two will do, and the emphasis is on the MLR, mass, luminosity, radius data obtained only from binaries.

*Understanding Variable Stars* John R. Percy, 2007-05-24. This book was first published in 2007. Variable stars are those that change brightness. Their variability may be due to geometric processes such as rotation or eclipse by a companion star or physical processes such as vibration flares or cataclysmic explosions. In each case, variable stars provide unique information about the properties of stars and the processes that go on within them. This book provides a concise overview of variable stars, including a historical perspective, an introduction to stars in general, the techniques for discovering and studying variable stars, and a description of the main types of variable stars. It ends with short reflections about the connection between the study of variable stars and research, education, amateur astronomy, and public interest in astronomy. This book is intended for anyone with some background knowledge of astronomy but is especially suitable for undergraduate students and experienced amateur astronomers who can contribute to our understanding of these important stars.

**A Practical Guide to Lightcurve Photometry and Analysis** Brian D. Warner, 2016-06-20. Tools for amateur astronomers who wish to go beyond CCD imaging and step into serious science. The text offers techniques for gathering, analyzing, and publishing data and describes joint projects in which amateurs and students can take part. Readers learn to recognize and avoid common errors in gathering photometry data with detailed examples for analysis. Includes reviews of available software with screen shots and useful tips.

[Binary Stars: Selected Topics on Observations and Physical Processes](#) F. C. Lazaro, M. J. Arevalo, 2001-07-03. More than half of all stars in the universe formed and evolved as binary systems, and their study is essential for understanding stellar and galactic evolution. The six lectures in this book give both a readable introduction and an up-to-date review of nearly all aspects of research into binary stars, including the range from common binaries to more exotic systems composed of white dwarfs, neutron stars, and black holes.

**The Formation of Binary Stars** International Astronomical Union. Symposium, 2001.

**The Impact of Binary Stars on Stellar Evolution** Giacomo Beccari, Henri M. J. Boffin, 2019-04-18. An advanced review of how binary stars affect stellar evolution, presenting

results from state of the art models and recent observations

**Fundamental Astronomy** Hannu Karttunen, Pekka Kröger, Heikki Oja, Markku Poutanen, Karl Johan Donner, 2007-08-09 Fundamental Astronomy is a well balanced comprehensive introduction to classical and modern astronomy While emphasizing both the astronomical concepts and the underlying physical principles the text provides a sound basis for more profound studies in the astronomical sciences This is the fifth edition of the successful undergraduate textbook and reference work It has been extensively modernized and extended in the parts dealing with extragalactic astronomy and cosmology You will also find augmented sections on the solar system and extrasolar planets as well as a new chapter on astrobiology Long considered a standard text for physical science majors Fundamental Astronomy is also an excellent reference work for dedicated amateur astronomers Structure and Evolution of Single and Binary Stars C. de Loore, C. Doom, 1992-05-31 Classical stellar evolution theories have undergone some drastic changes in recent decades New insights into the development of stellar interiors were obtained from studying stars in various stages of their lives as well as with the help of fast computers which gave a boost to the branch of numerical modelling of stellar structure and evolution This book is divided into two parts The first part deals with the general aspects of stellar structure and evolution including a chapter on numerical modelling The second part deals with specific evolutionary aspects of single and binary stars with a variety of masses The last chapter gives several models of stars with specific masses The book is intended as an introduction for students as well as a reference for researchers

**Introduction to Astronomical Photometry** E. Budding, 1993-09-24 Completely updated this second Edition gives a broad review of astronomical photometry to provide an understanding of astrophysics from a data based perspective It explains the underlying principles of the instruments used and the applications and inferences derived from measurements Each chapter has been fully revised to account for the latest developments including the uses of CCDs Thoroughly illustrated this book provides an overview and historical background of the subject before reviewing the main themes within astronomical photometry The central chapters focus on the practical design of the instruments and methodology used The book continues by discussing specialized topics in stellar astronomy concentrating on the information that can be derived from the analysis of the light curves of variable stars and especially close binary systems The new edition includes numerous bibliographic notes and a glossary of terms It is ideal for graduate students academic researchers and advanced amateurs interested in practical and observational astronomy Book jacket

*Introduction to Astronomical Photometry* Edwin Budding, Osman Demircan, 2007-04-26 Review of astronomical photometry for graduate students researchers and advanced amateurs in practical and observational astronomy

Principles of Astrophysical Fluid Dynamics Cathie Clarke, Bob Carswell, 2007-03-08 Fluid dynamical forces drive most of the fundamental processes in the Universe and so play a crucial role in our understanding of astrophysics This comprehensive textbook first published in 2007 introduces the necessary fluid dynamics to understand a wide range of astronomical phenomena from stellar structures to supernovae blast waves to accretion discs

The authors approach is to introduce and derive the fundamental equations supplemented by text that conveys a more intuitive understanding of the subject and to emphasise the observable phenomena that rely on fluid dynamical processes. The textbook has been developed for use by final year undergraduate and starting graduate students of astrophysics and contains over fifty exercises. It is based on the authors many years of teaching their astrophysical fluid dynamics course at the University of Cambridge.

**Physics of Binary Star Evolution** Thomas M. Tauris, Edward P.J. van den Heuvel, 2023-03-28. A graduate level textbook on the astrophysics of binary star systems and their evolution. Physics of Binary Star Evolution is an up to date textbook on the astrophysics and evolution of binary star systems. Theoretical astrophysicists Thomas Tauris and Edward van den Heuvel cover a wide range of phenomena and processes including mass transfer and ejection common envelopes novae and supernovae X ray binaries millisecond radio pulsars and gravitational wave GW sources and their links to stellar evolution. The authors walk through the observed properties and evolution of different types of binaries with special emphasis on those containing compact objects neutron stars black holes and white dwarfs. Attention is given to the formation mechanisms of GW sources merging double neutron stars and black holes as well as ultra compact GW binaries hosting white dwarfs and to the progenitors of these sources and how they are observed with radio telescopes X ray satellites and GW detectors LIGO Virgo KAGRA Einstein Telescope Cosmic Explorer and LISA. Supported by illustrations equations and exercises. Physics of Binary Star Evolution combines theory and observations to guide readers through the wonders of a field that will play a central role in modern astrophysics for decades to come. 465 equations 47 tables and 350 figures. More than 80 exercises analytical numerical and computational. Over 2 500 extensive up to date references.

**Directional and Multivariate Statistics** Somesh Kumar, Barry C. Arnold, Kunio Shimizu, Arnab Kumar Laha, 2025-05-05. This book contains select chapters on a range of topics in directional statistics multivariate statistical inference financial statistics statistical machine learning and reliability inference. At the 43rd Annual Convention of the Indian Society for Probability and Statistics ISPS held in Prayagraj formerly Allahabad Uttar Pradesh India from 6-8 February 2024, tribute was paid to Prof Ashis SenGupta on the occasion of his 70th birthday. He has pioneered research on directional statistics in the modern era in India and enhanced it worldwide and contributed significantly to the advancement of the following topics: Highly flexible distributions on manifolds Statistical machine learning in data science Big data on manifolds Optimal multiparameter multivariate statistical inference Reliability inference and stress dependent strength models Directional statistics for highly volatile financial models Cylindrical spherical and toroidal regression analysis Innovative applications of emerging real life directional data.

**Stars and Stellar Processes** M. W. Guidry, Mike Guidry, 2019-02-07. Presents the physics of stars in relation to modern topics such as neutrino oscillations supernovae black holes and gravitational waves.

**Gravitational Collapse** Guillermo García-Segura, 2004.

**International Conference on Applications and Techniques in Cyber Intelligence ATCI 2019** Jemal H. Abawajy, Kim-Kwang Raymond Choo, Rafiqul Islam, Zheng Xu, Mohammed

Atiquzzaman,2019-07-31 This book presents innovative ideas cutting edge findings and novel techniques methods and applications in a broad range of cybersecurity and cyberthreat intelligence areas As our society becomes smarter there is a corresponding need to be able to secure our cyberfuture The approaches and findings described in this book are of interest to businesses and governments seeking to secure our data and underpin infrastructures as well as to individual users

*Magnetohydrodynamics in Binary Stars* C. G. Campbell,2018-10-13 Magnetism in binary stars is an area of central importance in stellar astrophysics The second edition of *Magnetohydrodynamics in Binary Stars* is a major revision of the first edition The material has been updated and extended including additional chapters on the origins of the stellar magnetic fields and accretion disc magnetic winds A comprehensive account is given of the subject from the early work up to the latest results The unifying theme remains the redistribution of angular momentum by magnetic stresses This occurs in a wide variety of ways including magnetic stellar and orbital coupling magnetic channelling of accretion streams magnetic stellar coupling to accretion discs dynamo field coupling in discs and magnetic stellar and disc winds The associated stellar spin and orbital evolution problems including stability are also considered Although the main focus is on binary stars much of the work on accretion discs and wind flows has more general astrophysical relevance Convenient formulae are included that can be compared to observations making the book useful to observers as well as theorists and there are extensive reference lists The material is mainly aimed at research workers but parts of the text could be useful for postgraduate courses in magnetic stellar astrophysics topics

**Astronomical Time Series** Dan Maoz,Amiel Sternberg,Elia M. Leibowitz,2013-06-29 ELIA M LEIBOWITZ Director Wise Observatory Chair Scientific Organizing Committee The international symposium on Astronomical Time Series was held at the Tel Aviv University campus in Tel Aviv from December 30 1996 to January 11 1997 It was organized in order to celebrate the 25th anniversary of the Florence and George Wise Observatory WO operated by Tel Aviv University The site of the 1 meter telescope of the observatory is near the town of Mitzpe Ramon some 220 km south of Tel Aviv at the center of the Israeli Negev highland There were two major reasons for the choice of Time Series as the subject matter for our symposium One is mainly concerned with the subject matter itself and one is related particularly to the Wise Observatory There is hardly any doubt that astronomical time series are among the most ancient concepts in human civilization and culture One can even say that astronomical time series preceeded astronomy itself as the impression of the day night cycle on Earth is probably the first and most fundamental effect that impress a human being or in fact most living creatures on this planet An echo of this idea can be heard in the Biblical story of Creation where the concept of night and day preceeds the creation of the astronomical objects

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## **Table of Contents Introduction To Close Binary Stars**

1. Understanding the eBook Introduction To Close Binary Stars
  - The Rise of Digital Reading Introduction To Close Binary Stars
  - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Close Binary Stars
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Introduction To Close Binary Stars
  - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Close Binary Stars
  - Personalized Recommendations
  - Introduction To Close Binary Stars User Reviews and Ratings
  - Introduction To Close Binary Stars and Bestseller Lists
5. Accessing Introduction To Close Binary Stars Free and Paid eBooks
  - Introduction To Close Binary Stars Public Domain eBooks
  - Introduction To Close Binary Stars eBook Subscription Services
  - Introduction To Close Binary Stars Budget-Friendly Options
6. Navigating Introduction To Close Binary Stars eBook Formats



- ePub, PDF, MOBI, and More
- Introduction To Close Binary Stars Compatibility with Devices
- Introduction To Close Binary Stars Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Introduction To Close Binary Stars
  - Highlighting and Note-Taking Introduction To Close Binary Stars
  - Interactive Elements Introduction To Close Binary Stars
- 8. Staying Engaged with Introduction To Close Binary Stars
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Introduction To Close Binary Stars
- 9. Balancing eBooks and Physical Books Introduction To Close Binary Stars
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Introduction To Close Binary Stars
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Introduction To Close Binary Stars
  - Setting Reading Goals Introduction To Close Binary Stars
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Introduction To Close Binary Stars
  - Fact-Checking eBook Content of Introduction To Close Binary Stars
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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