

An Introduction To Close Binary Stars Hardcover

A Guide to Close Binary Systems An Introduction to Close Binary Stars Close Binary Stars: Observations and Interpretation Literature 1989, Part 1 Close Binaries and Stellar Evolution Spectroscopically and Spatially Resolving the Components of Close Binary Stars The Gentleman's Magazine Memoirs of the British Astronomical Association Knowledge Photography Annual Physics Briefs Nature Nature The Worlds of Space Close Binary Systems Comptes Rendus Publiés en Hommage Au Professeur G. Van Biesbroeck Birth and Evolution of Binary Stars Soviet Astronomy The Sidereal Messenger International Aerospace Abstracts Edwin Budding R. W. Hilditch Miroslav Plavec Astronomisches Rechen-Institut Theodorus Johannes van der Linden R. W. Hilditch British Astronomical Association Sir Norman Lockyer John Ellard Gore Zdenk Kopal Bo Reipurth

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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 zdenk 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 zdenek kopal in his home town birthplace of litomysl in czechia

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

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Introduction

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