

An Introduction To Close Binary Stars Hardcover

An Introduction to Close Binary Stars A Guide to Close Binary Systems Finding Charts Highly Evolved Close Binary Stars Finding Charts Highly Evolved Close Binary Stars Catalog Close Binary Stars: Observations and Interpretation Close binary Stars Critical Observations Versus Physical Models for Close Binary Systems Mass Transfer in Close Binary Stars Dynamics of Close Binary Systems Close Binary Systems (Classic Reprint) Active Close Binaries Positions of Close Binary Stars Binary Stars as Critical Tools and Tests in Contemporary Astrophysics (IAU S240) Highly Evolved Close Binary Stars: Finding charts Close Binaries in the 21st Century: New Opportunities and Challenges Close Binary Stars: Observations and Interpretation Two Theoretical Problems in Close Binary Stars R. W. Hilditch Edwin Budding AM Cherepashchuk Anatoli Mikha lovich Cherepashchuk Anatoli Mikha lovich Cherepashchuk Miroslav Plavec Kam-Ching Leung A. A. Boi archuk Zdenek Kopal Zden k Kopal Cafer Ibanogammalu Ronald F. Webbink International Astronomical Union. Symposium Alvaro Gimenez M.J. Plavec Stephen Harvey Lubow

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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

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 zden k 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

this two part set provides a summary of data on approximately 500 close binary systems in the later evolutionary stages all of which are currently major topics of binary star research the main parameters are presented for close binaries containing peculiar companions wolf rayet stars white dwarfs neutron stars and black holes

in two volumes pt 1 catalog pt 2 finding charts

proceedings of the iau symposium no 88 held in toronto canada august 7 10 1979979

this book contains the proceedings of the second joint research program on close binary systems between the people s republic of china and the united states the planning for the double stars conference developed gradually through several years of close cooperation between astronomers of the prc and the us topics covered include interacting am binaries h alpha emission and polarization of rs cvn stars observational approach to close binary evolution the role of polarimetry in understanding close binary stars and their interactions physical models for close binaries and logical constraints and accretion disks in dwarf novae

in recent years significant advances have been made in the numerical simulation of mass transfer processes of binary stars these are dealt with concisely in this book it covers background theory and sets out basic principles giving many practical examples it then offers a brief review of the available observational evidence of mass transfer in binaries

the aim of the present book will be to provide a comprehensive account of our present knowledge of the theory of dynamical phenomena exhibited by close binary systems and on the basis of such phenomena as have been attested by available observations to outline probable evolutionary trends of such systems in the course of time the evolution of the stars motivated by nuclear as well as gravitational energy sources constitutes nowadays a well established branch of stellar astronomy no theories of such an evolution are as yet sufficiently specific let alone infallible not to require continual tests by a confrontation of their consequences with the observed properties of actual stars at different stages of their evolution the discriminating power of such tests depends of course on the range of information offered by the test objects single stars which move alone in space are now known to represent only a minority of objects constituting our galaxy of chapter 1 2 and are moreover not very revealing of their basic physical characteristics such as their masses or absolute dimensions if there were no binary systems in the sky the only star whose vital statistics would be fully known to us would be our sun

excerpt from close binary systems precession and nutation of fluid components perturbations of the elements in the orbital plane period variation in eclipsing binary systems perturbations by a third body about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

since the 1970s symposia or colloquia devoted to recent research on close binaries have been held around the world almost annually at meetings of the general assembly of the international astronomical union this topic has also been discussed in detail at presentations in various commission meetings and also as invited talks by leading astronomers in the field in recent years fundamental changes have taken place in the study of close binaries due to the improvements in observational techniques extension of observations from x ray to radio regions of the electromagnetic spectrum and advances in theoretical studies for more than a decade a group of astronomers at ege university observatory has been concentrating on active close binaries with particular emphasis on the behaviour of the light curves of chromospherically active systems thus we decided to organize an international meeting in western anatolia where this part of turkey had been the cradle for great developments in science during antiquity kuljadasi located only minutes away from ephesus one of the seven wonders of the world was selected to be the meeting site close binary systems constitute a

very rich source of information about the physical properties of the component stars some systems are eclipsing variables where periodic recurrences of eclipses are observed as comparatively brief decreases in the total brightness of the binary system precise methods of photometric observations make it possible to obtain the light variations of these systems because of eclipses and other phenomena

iau symposium 240 held in conjunction with the 26th general assembly of the international astronomical union highlights the latest advances in the field of binary and multiple stars and was the first major meeting in recent years bringing together members of both the wide and close binary communities topics discussed ranged from common proper motion pairs and other fragile binaries to contact binaries and star brown dwarf planet systems exploring the numerous interests common to all binary star researchers highlights included talks on observing binaries using high angular and spectral resolution techniques the impacts of new and planned large scale surveys recent models for binary evolution new methods for analyzing cataclysmic pairs and disentangling spectra surveys of extragalactic eclipsing binaries doppler tomography and imaging and binaries as probes of the galaxy s chemical and dynamical evolution this volume will be an important reference source for binary star researchers for many years to come

this book is the proceedings of an international conference entitled close binaries in the 21st century new opportunities and challenges held in syros island greece june 27 30 2005 the papers collected in this volume detail the latest achievements in the field and reflect the state of the art of the dynamically evolving area of binary star research

symposium no 88 of the international astronomical union was devoted to a comprehensive review of all types of close binary stars the nine sessions were organized according to the type of the objects to be discussed we have preserved this system but assembled twelve papers of a more general character reviews and surveys into a special chapter placed at the beginning of this book we would like to remind the reader that the symposium was preceded by the iau colloquium no 53 on white dwarfs and variable degenerate stars and that the sessions on cataclysmic variables and related topics at the two meetings supplemented each other the discussion in toronto was carefully recorded by mr robert gauthier we also wish to thank mr robert o daniel ms joan kaufmann and ms linda reimers for assisting us with the editorial work m j plavec d m popper r k ulrich acknowledgements the international astronomical union and the university of toronto contributed substantial funds enabling a number of participants to receive travel grants the symposium was sponsored by the following commissions of the international astronomical union 29 stellar spectra 30 radial velocities 35 stellar structure 42 close binary stars and 44 astronomy from space our special thanks go to the members of the scientific organizing committee the symposium was attended by 170 participants from 26 countries

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