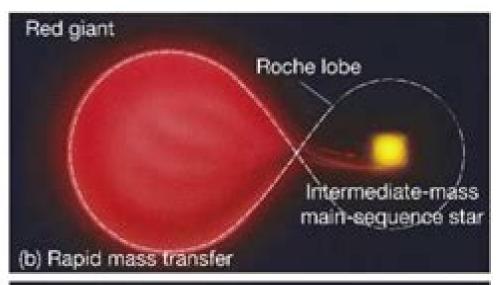
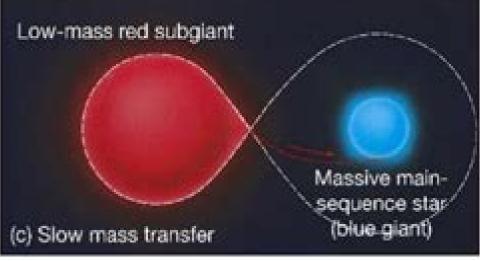
# The Evolution of Binary-Star Systems

As the blue giant star entered its red giant phase, it expanded to the point where mass transfer occurred

When enough mass is accreted onto the smaller star that it becomes a blue giant, leaving the other star as a red subgiant





# **Interacting Binary Stars**

Thomas M. Tauris, Edward P.J. van den Heuvel

### **Interacting Binary Stars:**

The Realm of Interacting Binary Stars J. Sahade, G.E. McCluskey, Y. Kondo, 2012-12-06 More than two centuries have elapsed since the story of the interacting binary stars began with the rediscovery of the variability of Algol by John Goodricke and the interpretation he proposed for explaining the regular periodic brightness variations which he found Over this long span of time our knowledge about these systems has been growing and we have now reached a fairly good understanding of the structure and behavior of this interesting group of objects This book contains a timely summary of our present knowledge of interacting binary stars The chapters have been written by distinguished scientists who have done relevant research in the **Interacting Binary Stars** James Edward Pringle, Richard Alan Wade, 1985 This field of interacting binary stars introductory account provides the physical background to an understanding of interacting binary stars These are star systems in which the pair of members is close enough to each other to cause interactions Several such systems are strong sources of stellar x rays The contributions all by active researchers concentrate on three areas of current interest which serve to illustrate the problems encountered generally in these binary systems. The topics covered are binary star evolution contact binary stars and cataclysmic variable stars The book brings a graduate student to the point of being able to start Interacting Binary Stars Jorge Sahade, Frank Bradshaw Wood, 2015-11-24 Interacting Binary Stars independent research deals with the development ideas and problems in the study of interacting binary stars. The book consolidates the information that is scattered over many publications and papers and gives an account of important discoveries with relevant historical background Chapters are devoted to the presentation and discussion of the different facets of the field such as historical account of the development in the field of study of binary stars the Roche equipotential surfaces methods and techniques in space astronomy and enumeration of binary star systems that are studied meticulously by scientists Astronomers astrophysicists physicists researchers and students in related fields will find the book interesting Evolutionary Processes in Interacting Binary Stars Y. Kondo, R.F. Sisteró, R.S. Polidan, 1992-06-30 This book contains the proceedings of IAU Symposium No 151 Evolutionary Processes in Interacting Binary Stars which was held from 5 to 9 August 1991 in Cord ba Argentina The primary aim of this conference was to review and evaluate our current understanding of the evolutionary processes in wide variety of interacting binary stars from their births to their deaths Subjects included the formation of binaries mass flow and transfer accretion processes and binaries with collapsed components such as novae X ray binaries and binary pulsars As the field covered is both broad and diverse there were in all thirty seven invited talks sixty two contributed papers were also presented In addition these proceedings contain comments from a panel discussion of the major unsolved problems of interacting binary stars Interacting Binaries P.P. Eggleton, J.E. Pringle, 2012-12-06 Peter P Eggleton and James E Pringle Institute of Astronomy Madingley Road Cambridge England The 1970 s can be described in retrospect as the Decade of the Close Binary Exciting observations with new technology combined with classical work both

observational and theoretical convinced the astronomical world that binary interaction of various kinds is not only interesting but common Indeed by 1975 almost anything unusual had a good chance of being interpreted as due to binary interaction But astronomers are seldom overwhelmed by speculation even their own and solid observational work has confirmed or refuted such speculation without regard to its plausibility For instance binarity has been found where it was perhaps least expected in Barium stars and refuted where it could most reasonably be expected in Wolf Rayets Unfortunately many other classes of potential binaries remain without the clearest evidence of binarity for instance Be stars symbiotics and blue stragglers This Advanced Study Institute was held to commemorate John Whelan 1945 1981 whose scientific career sadly cut short in its prime did much to further the careful study theoretical and observational of close binaries as well as to encourage the spirit of international friendship and collaboration His own interests covered a greater field but Interacting Binaries seemed a reasonable restriction We publish here 15 review talks which still do not cover the whole topic although they range Interacting Binary Stars Allen Wayne Shafter, 1994 Interacting Binary Stars Ulrich Kolb, Open University S381 Course Team, Open University, 2002-12 This books aims to achieve a deeper understanding of the physical principles that govern the processes of mass transfer and accretion in interacting binary stars Please note that activities in this book involve readings from the textbook Accretion Power in Astophysics by Frank King Raine published by Cambridge University Press and also include activities on the web spreadsheet calculations and activities from the CD ROM Blocks 1 4 Image Archive

A Finding List for Observers of Interacting Binary Stars Frank Bradshaw Wood,1980 Fourth ed as A finding list for observers of eclipsing variables by Robert Harry Koch Stanley Sobieski Frank Bradshaw Wood 1963 Models of Interacting Binary Stars Marthijn de Kool,1987 Studies of Low-mass Interacting Binary Stars Paul P. Rainger, University of St. Andrews.1990 Misc\findlist Frank-Bradshaw Wood,1980 **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 The Impact of Binary Stars on Stellar Evolution Giacomo Beccari, Henri M. J. Boffin, 2019-04-18 Stars are mostly found in binary and multiple systems with at least 50% of all solar like stars having companions this fraction approaches 100% for the most massive stars A large proportion of these systems interact and alter the structure and

evolution of their components leading to exotic objects such as Algol variables blue stragglers and other chemically peculiar stars but also to phenomena such as non spherical planetary nebulae supernovae and gamma ray bursts While it is understood that binaries play a critical role in the Initial Mass Function the interactions among binary systems significantly affect the dynamical evolution of stellar clusters and galaxies This interdisciplinary volume presents results from state of the art models and observations aimed at studying the impact of binaries on stellar evolution in resolved and unresolved populations Serving as a bridge between observational and theoretical astronomy it is a comprehensive review for researchers and advanced students of astrophysics Interacting Binaries S.N. Shore, M. Livio, E.P.J. van den Heuvel, 2006-01-27 Observational and Theoretical Issues of Interacting Binaries was the topic of the 22nd Advanced Course of the Swiss Society for Astrophysics and Astronomy It was the first time that binary systems were the center of attention of our course The established concept and organisation of the Advanced Course has been retained three scientists all acknowledged experts in their respective fields were each invited to give nine one hour lectures within the period of a week The Advanced Course took place from April 6 to 11 1992 at Les Diablerets a charming resort in the Swiss alps The high level of the lectures the international background of the 65 participants including many young students and the beauty of the surroundings all contributed to the success of the course The lecture notes of this course the 22nd in our series are also the third to be published by Springer Verlag Well over half of all stars seem to exist in binary systems The study of binary evolution is therefore essential for our understanding of stellar evolution in general The evolution of interacting binaries contains in itself many of the problems met in other fields of modern astrophysics. This is very apparent in these lecture notes

Accretion disks in interacting binary stars John K. Cannizzo, Ronald H. Kaitchuck, 1992 Zdenek Kopal's Binary Star Legacy Horst Drechsel, Miloslav Zejda, 2005-08-01 An international conference entitled Zdenek Kopal s Binary Star Legacy was held on the occasion of the late Professor Kopal s 90th birthday in his home town of Litomy l Czech Republic and dedicated to the memory of one of the leading astronomers of the 20th century Professor Kopal who devoted 60 years of his scientific life to the exploration of close binary systems initiated a breakthrough in this field with his description of binary components as non spherical stars deformed by gravity with surfaces following Roche equipotentials Such knowledge triggered the development of new branches of astrophysics dealing with the structure and evolution of close binaries and the interaction effects displayed by exciting objects such as cataclysmic variables symbiotic stars or X ray binaries Contributions to this conference included praise of the achievements of a great astronomer and personal reminiscences brought forward by Kopal s former students and colleagues and reflected the state of the art of the dynamically evolving field of binary research which owes so much to the pioneering work of Zdenek Kopal 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 **Literature 1992, Part 1** Astronomisches Recheninstitut, 2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics andneighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Interacting Binaries to Exoplanets (IAU S282) Mercedes T. Richards, Ivan Hubeny, 2012-05-17 In IAU Symposium 282 members of the exoplanet and binary star communities unite for the first time to discuss the state of the art discovery imaging modeling and analysis tools used to study stars brown dwarfs and exoplanets in multiple object systems They describe detection techniques using advanced telescopes and detectors including the Kepler mission and the proposed Gaia and LSST projects Imaging techniques discussed include adaptive optics interferometry polarimetry and tomography while key modeling tools are covered in detail Other topics include simulations of formation mechanisms in binary star systems non conservative evolution of binary stars the formation and evolution of planets and a theory for the structure atmospheres and evolution of giant exoplanets The volume concludes with hydrodynamic simulations models of planetary atmospheres and the habitability of exoplanets These proceedings demonstrate how sophisticated modeling codes bridge the gap between theory and observations and increase our understanding of binary and multiple systems **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

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