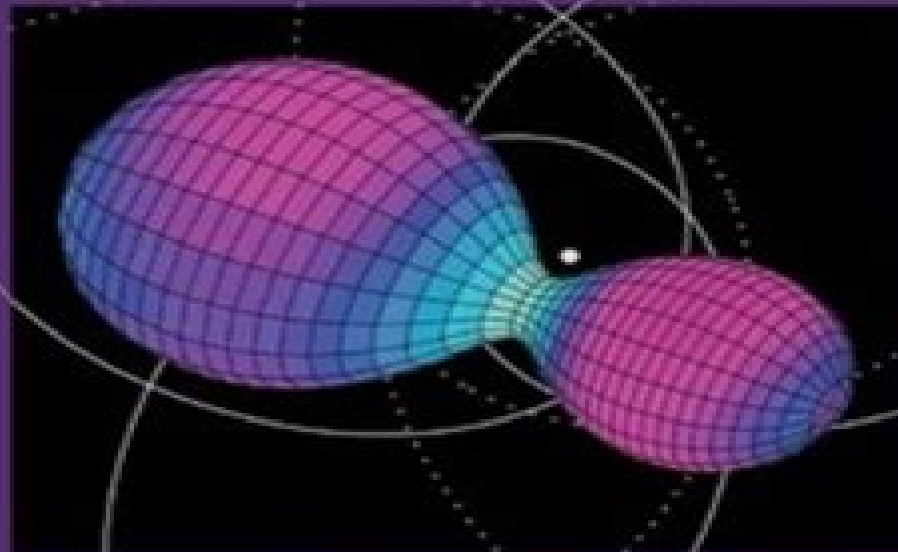


An Introduction to Close Binary Stars



R.W. Hilditch

An Introduction To Close Binary Stars Hardcover

David Baud



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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. *An Introduction to Close Binary Stars* R. W.

Hilditch, 2001-03-12 Binary systems of stars are as common as single stars. This original text provides a pedagogical and comprehensive introduction to binary stars. The author combines theory and observations at all wavelengths to develop a unified understanding of binaries of all categories. Chapters review methods for calculating orbits, the Roche model, ideas about mass exchange and loss, methods for analyzing light curves, the masses and dimensions of different binary systems and imaging the surfaces of stars and accretion structures. This volume offers advanced undergraduate and graduate students a thorough introduction to binary stars that will aid their learning of stellar astrophysics, stellar structure and evolution and observational astrophysics. **Highly Evolved Close Binary Stars** Anatoliĭ Mikhaĭlovich Cherepashchuk, 1996

Fundamental Astronomy Hannu Karttunen, Pekka Kröger, Heikki Oja, Markku Poutanen, Karl Johan Donner, 2007-08-09 *Fundamental Astronomy* gives a well balanced and comprehensive introduction to the topics of 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. The fifth edition of this successful undergraduate textbook has been extensively modernized and extended in the parts dealing with the Milky Way, extragalactic astronomy and cosmology as well as with extrasolar planets and the solar system as a consequence of recent results from satellite missions and the new definition by the International Astronomical Union of planets, dwarf planets and small solar system bodies. Furthermore, a new chapter on astrobiology has been added. Long considered a standard text for physical science majors, *Fundamental Astronomy* is also an excellent reference and entrance for dedicated amateur astronomers. *Dynamics of Close Binary Systems* Zdenek Kopal, 2012-12-06 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 cf 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

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

Finding Charts Anatoliĭ Mikhaĭlovich Cherepashchuk, 1996 In two volumes pt 1 Catalog pt 2 Finding charts [Finding Charts](#) AM Cherepashchuk, N A Katysheva, T S Khruzina, S Yu Shugarov, 1996-09-01 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 **Literature 1997, Part 1** Astronomisches Rechen-Institut ARI, 2013-11-11 Astronomy and Astrophysics Abstracts is devoted to the recording summarizing and indexing of astronomical publications throughout the world Two volumes are scheduled to appear per year Volume 67 records 10 903 papers covering besides the classical fields of astronomy and astrophysics such matters as space flights related to astronomy lunar and planetary probes and satellites meteorites and interplanetary matter X rays and cosmic rays quasars and pulsars The abstracts are classified under more than one hundred subject categories thus permitting quick surveying of the bulk of material published on the same topic within six months For instance this volume records 119 papers on minor planets 155 papers on supernovae and 554 papers on cosmology Stellar Interiors Carl J. Hansen, Steven D Kawaler, 2012-12-06 That trees should have been cut down to provide paper for this book was an ecological affront From a book review Anthony Blond in the Spectator 1983 The first modern text on our subject Structure and Evolution of the Stars was published over thirty years ago In it Martin Schwarzschild described numerical experiments that successfully reproduced most of the observed properties of the majority of stars seen in the sky He also set the standard for a lucid description of the physics of stellar interiors Ten years later in 1968 John P Cox's two volume monograph Principles of Stellar Structure appeared as did the more specialized text Principles of Stellar Evolution and Nucleosynthesis by Donald D Clayton and what a difference ten years had made The field had matured into the basic form that it remains today The past twenty plus years have seen this branch of astrophysics flourish and develop into a fundamental pillar of modern astrophysics that addresses an enormous variety of phenomena In view of this it might seem foolish to offer another text of finite length and expect it to cover any more than a fraction of what should be discussed to make it a thorough and self contained reference Well it doesn't Our specific aim is to introduce only the fundamentals of stellar astrophysics You will find little reference here to black holes millisecond pulsars and other sexy objects

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