



# Active Close Binaries

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# Active Close Binaries

**S.N. Shore, M. Livio, E.P.J. van den  
Heuvel**



## **Active Close Binaries:**

*Active Close Binaries* Cafer Ibanogammalu, 2012-12-06 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

### **Close Binaries in the 21st Century: New Opportunities and Challenges**

Alvaro Gimenez, Edward Guinan, Panagiotis Niarchos, Slavek Rucinski, 2007-04-05 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

*Active Close Binaries* Cafer Ibanogammalu, 1990-09-30

**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

*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.

**Eclipsing Binary Stars** Josef Kallrath, Eugene F. Milone, 2013-11-11 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 we can. In addition to the serious onlookers, there will be passers-by 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.

**Close Binary Stars: Observations and Interpretation** Miroslav Plavec, International Astronomical Union, 1980-06-30 Proceedings of the IAU Symposium No 88 held in Toronto, Canada, August 7-10, 1979.

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.

*Spectroscopically and Spatially Resolving the Components of Close Binary Stars* R. W. Hilditch, Herman Hensberge, Krešimir Pavlovski, 2004

**The Realm of Interacting Binary Stars** Jorge Sahade, George E. McCluskey, Yoji Kondo, 1993 More than two centuries

have elapsed since the story of 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

The Irish Astronomical Journal ,1997      **Birth and Evolution of Binary Stars** Bo Reipurth,Hans Zinnecker,2000

Astronomical Data Analysis Software and Systems XIV Patrick L. Shopbell,Matthew C. Britton,Rick Ebert,2005

**Workshop on Colliding Winds in Binary Stars to Honor Jorge Sahade** Virpi Niemela,Nidia Morrell,1996

**Nature** Sir Norman Lockyer,1915      Physics Briefs ,1994      Numerical Data and Functional Relationships in Science and Technology K. H. Hellwege,1961      **Environments of Active Close Binary Stars** Alastair Grey Gunn,1995

Referativnyi zhurnal ,1997      **Cool Stars, Stellar Systems and the Sun** ,1995

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## **Table of Contents Active Close Binaries**

1. Understanding the eBook Active Close Binaries
  - The Rise of Digital Reading Active Close Binaries
  - Advantages of eBooks Over Traditional Books
2. Identifying Active Close Binaries
  - 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 Active Close Binaries
  - User-Friendly Interface
4. Exploring eBook Recommendations from Active Close Binaries
  - Personalized Recommendations

- Active Close Binaries User Reviews and Ratings
- Active Close Binaries and Bestseller Lists
- 5. Accessing Active Close Binaries Free and Paid eBooks
  - Active Close Binaries Public Domain eBooks
  - Active Close Binaries eBook Subscription Services
  - Active Close Binaries Budget-Friendly Options
- 6. Navigating Active Close Binaries eBook Formats
  - ePub, PDF, MOBI, and More
  - Active Close Binaries Compatibility with Devices
  - Active Close Binaries Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Active Close Binaries
  - Highlighting and Note-Taking Active Close Binaries
  - Interactive Elements Active Close Binaries
- 8. Staying Engaged with Active Close Binaries
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Active Close Binaries
- 9. Balancing eBooks and Physical Books Active Close Binaries
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Active Close Binaries
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Active Close Binaries
  - Setting Reading Goals Active Close Binaries
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Active Close Binaries
  - Fact-Checking eBook Content of Active Close Binaries

- 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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