

The Realm of Interacting Binary Stars

J. Sahade, G. E. McCluskey, Jr.,
and Y. Kondo (eds.)



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Realm Of Interacting Binary Stars

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Ventura, Edward Peter Jacobus van
den Heuvel**



Realm Of 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 field of interacting binary stars

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 Cordoba 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

Short-Period Binary Stars: Observations, Analyses, and Results Eugene F. Milone, Denis A. Leahy, David W. Hobill, 2008-02-21 Short period binaries run the gamut from widely separated stars to black hole pairs in between are systems that include neutron stars and white dwarfs and partially evolved systems such as tidally distorted and over contact systems These objects represent stages of evolution of binary stars and their degrees of separation provide critical clues to how their evolutionary paths differ from that of single stars The widest and least distorted systems provide astronomers with the essential precise data needed to study all stars mass and radius The interactions of binary star components on the other hand provide a natural laboratory to observe how the matter in these stars behaves under different and often varying physical conditions Thus cataclysmic variables with and without overpoweringly strong magnetic fields and stars with densities from that found in the Sun to the degenerate matter of white dwarfs and the ultra compact states of neutron stars and black holes are all discussed The extensive index permits cross referencing

Astrophysics in the Extreme Ultraviolet Stuart Bowyer, Roger F. Malina, 2012-12-06 From the beginning of Space Astronomy the Extreme Ultraviolet band of the spectrum roughly defined as the decade in energy from 90 900 was deemed to be the unobservable ultraviolet Pioneering results from an EUV telescope on the Apollo Soyuz Mission in 1975 forcibly demonstrated that this view was incorrect but it required the all sky surveys of the English Wide Field Camera and the Extreme Ultraviolet Explorer to demonstrate the broad potential of this field Over 700 EUV sources have now been detected Over 150 researchers from 16 countries gathered to share results in this new field

at the International Astronomical Union Colloquium No 152 Papers were presented on a wide variety of topics including cool star coronae white dwarf atmospheres and evolution neutron stars the Io torus cataclysmic variable stars active galactic nuclei the interstellar medium winds and atmospheres of early type stars and EUV plasma diagnostics Selected manuscripts from this meeting are provided in these Conference Proceedings *Cataclysmic Variable Stars* Brian Warner, 2003-09-18 This timely volume provides the first comprehensive survey of cataclysmic variable stars integrating theory and observation into a single synthesised text *The Electromagnetic Spectrum of Neutron Stars* A. Baykal (Ed), 2005-10-25 Neutron stars hold a central place in astrophysics not only because they are made up of the most extreme states of the condensed matter but also because they are along with white dwarfs and black holes one of the stable configurations that stars reach at the end of stellar evolution Neutron stars possess the highest rotation rates and strongest magnetic fields among all stars They radiate prolifically in high energy electromagnetic radiation and in the radio band This book is devoted to the selected lectures presented in the 6th NATO ASI series entitled The Electromagnetic Spectrum of Neutron Stars in Marmaris Turkey on 7-18 June 2004 This ASI is devoted to the spectral properties of neutron stars Spectral observations of neutron stars help us to understand the magnetospheric emission processes of isolated radio pulsars and the emission processes of accreting neutron stars This volume includes spectral information from the neutron stars in broadest sense namely neutrino and gravitational radiation along with the electromagnetic spectrum We believe that this volume can serve as graduate level of text including the broad range of properties of neutron stars **The Neutron Star** Chryssa Kouveliotou, J.E Ventura, Edward Peter Jacobus van den Heuvel, 2001-12-31 Proceedings of the NATO Advanced Study Institute Elounda Crete Greece 7-18 June 1999

Numerical Astrophysics Shoken M. Miyama, Kohji Tomisaka, Tomoyuki Hanawa, 2012-12-06 These are the proceedings of international conference on Numerical Astrophysics 1998 NAP98 held at National Olympic Memorial Youth Center in Tokyo Japan in the period of March 10-13 1998 and hosted by the National Astronomical Observatory Japan NAOJ In the last decade numerical simulations have grown up as a major tool for astrophysics Numerical simulations give us invaluable information on complex systems and physical processes under extreme conditions which can be neither realized by experiments nor directly observed Super computers and special purpose computers may work as very large telescopes and special purpose telescopes for theoretical astrophysics respectively Numerical astrophysics ranks with other tool oriented astronomy such as radio astronomy infrared astronomy ultraviolet astronomy X-ray astronomy and gamma-ray astronomy This conference NAP98 was planned to explore recent advances in astrophysics aided by numerical simulations The subjects of the conference included the large scale structure formation galaxy formation and evolution star and planets formation accretion disks jets gravitational wave emission and plasma physics NAP98 had also sessions on numerical methods and computer science The conference was attended by 184 scientists from 21 countries We enjoyed excellent talks posters videos and discussions there are 40 oral presentations 96 posters and 16 video presentations We hope that these

proceedings and accompanying CD ROM replay the friendly but inspiring atmosphere of the conference Allen's Astrophysical Quantities Clabon Walter Allen, Arthur N. Cox, 2000 This new fourth edition of Allen's classic *Astrophysical Quantities* belongs on every astronomer's bookshelf It has been thoroughly revised and brought up to date by a team of more than ninety internationally renowned astronomers and astrophysicists While it follows the basic format of the original this indispensable reference has grown to more than twice the size of the earlier editions to accommodate the great strides made in astronomy and astrophysics It includes detailed tables of the most recent data on General constants and units Atoms molecules and spectra Observational astronomy at all wavelengths from radio to gamma rays and neutrinos Planetary astronomy Earth planets and satellites and solar system small bodies The Sun normal stars and stars with special characteristics Stellar populations Cataclysmic and symbiotic variables supernovae Theoretical stellar evolution Circumstellar and interstellar material Star clusters galaxies quasars and active galactic nuclei Clusters and groups of galaxies Cosmology As well as much explanatory material and extensive and up to date bibliographies **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 History of Oriental Astronomy S.M. Ansari, 2013-06-29 Proceedings of the Joint Discussion 17 at the 23rd IAU General Assembly organised by the Commission 41 held in Kyoto Japan August 25-26 1997 *The Sun and Space Weather* A. Hanslmeier, 2006-04-18 Since the Sun is the main source of space weather effects the first part of the book is devoted to a general introduction to the physics of the Sun A better understanding of the phenomena underlying solar activity is also important for prediction of solar outbursts and thus for establishing alert systems for space missions and telecommunication systems The book contains the following topics possible influence of the Sun on the Earth's climate the effects of radiation on humans in space and the expected radiation dose from various solar events disturbances of the Earth's ionosphere and the implications of radio communication at different wavelength ranges possible hazardous asteroids and meteoroids and their detection and space debris and special shielding of spacecraft In the cited literature more detailed information about the topics may be found This book provides an introduction and overview of modern solar terrestrial physics for students as well as for researchers in the field of astrophysics solar

physics geophysics and climate research *Multielement System Design in Astronomy and Radio Science* L.E. Kopilovich, L.G. Sodin, 2013-03-09 The multielement systems have been widely used in many fields of astronomy and radio science in the last decades This is caused by the increasing demands on the resolution and sensitivity of such systems over the wide range of the electromagnetic wavelengths from gamma up to radio The ground based optical and radio interferometers gamma ray and X ray or bital telescopes antenna arrays of radio telescopes and also some other radio devices belong to scientific instruments using multielement systems There fore the current problems of the optimal construction of such systems or precisely those of searching for the best arrangement of the elements in them were formulated A rather large number of scientific papers including those of the authors is devoted to these problems and we believe that the time has come to integrate the basic results of the papers into the mono graph The offered book consists of three parts The first part is concerned with the optimal synthesis of optical and radio interferometers of various types and purposes the synthesis of non equidistant antenna arrays is considered in the second part and the methods for the construction of coded masks for X ray and gamma ray orbital telescopes are expounded in the third one Since in the text combinatorial constructions which are little known to astronomers are used the necessary information is given in the appendices Various tables containing the parameters of the systems considered are also represented Plasma Astrophysics Arnold O. Benz, 2005-11-28 This textbook is intended as an introduction to the physics of solar and stellar coronae emphasizing kinetic plasma processes It is addressed to observational astronomers graduate students and advanced undergraduates without a background in plasma physics Coronal physics is today a vast field with many different aims and goals So ing out the really important aspects of an observed phenomenon and using the physics best suited for the case is a formidable problem There are already several excellent books oriented toward the interests of astrophysicists that deal with the magnetohydrodynamics of stellar atmospheres radiation transport and radiation theory In kinetic processes the different particle velocities play an important role This is the case when particle collisions can be neglected for example in very brief phenomena such as one period of a high frequency wave or in effects produced by energetic particles with very long collision times Some of the most persistent problems of solar physics like coronal heating shock waves flare energy release and particle acceleration are likely to be at least partially related to such processes Study of the Sun is not regarded here as an end in itself but as the source of information for more general stellar applications Our understanding of stellar processes relies heavily in turn on our understanding of solar processes Thus an introduction to what is happening in hot dilute coronae necessarily starts with the plasma physics of our nearest star *Mechanics of Turbulence of Multicomponent Gases* Mikhail Ya. Marov, Aleksander V. Kolesnichenko, 2002-02-28 Space exploration and advanced astronomy have dramatically expanded our knowledge of outer space and made it possible to study the indepth mechanisms underlying various natural phenomena caused by complex interaction of physical chemical and dynamical processes in the universe Huge breakthroughs in

astrophysics and the planetary sciences have led to increasingly complicated models of such media as giant molecular clouds giving birth to stars protoplanetary accretion disks associated with the solar system's formation planetary atmospheres and circumplanetary space The creation of these models was promoted by the development of basic approaches in modern mechanics and physics paralleled by the great advancement in the computer sciences As a result numerous multidimensional non stationary problems involving the analysis of evolutionary processes can be investigated using wide range numerical experiments Turbulence belongs to the most widespread and at the same time the most complicated natural phenomena related to the origin and development of organized structures dies of different scale at a definite flow regime of fluids in essentially non linear hydrodynamic systems This is also one of the most complex and intriguing sections of the mechanics of fluids The direct numerical modeling of turbulent flows encounters large mathematical difficulties while the development of a general turbulence theory is hardly possible because of the complexity of interacting coherent structures Three dimensional non steady motions arise in such a system under loss of laminar flow stability defined by the critical value of the Reynolds number

Interstellar Adventures Pasquale De Marco, 2025-07-27 Embark on an awe inspiring odyssey through the vast frontiers of space and the profound mysteries of the universe in *Interstellar Adventures* This captivating exploration delves into the enigmatic depths of dark matter unraveling the secrets of black holes and contemplating the boundless expanse of the multiverse Prepare to have your mind stretched to its limits as you encounter the perplexing nature of time dilation and delve into the mind boggling realm of quantum physics Journey through the celestial wonders that adorn our night sky venturing into the fiery heart of stars traversing the vast expanse of our solar system and navigating treacherous asteroid belts Discover the ethereal beauty of nebulae and marvel at the intricate patterns of constellations ancient celestial signposts that have guided humanity for millennia Contemplate the profound implications of intergalactic encounters pondering the tantalizing possibility of extraterrestrial life Explore the enigmatic signals emanating from distant stars searching for clues that might reveal the existence of intelligent civilizations beyond our own Confront the Fermi paradox a haunting question that challenges our assumptions about the prevalence of life in the universe Envision the possibilities of interstellar communication and dare to dream of a united galactic community where diverse civilizations coexist in harmony and mutual understanding Delve into the perplexing phenomena that warp the fabric of spacetime contemplating the enigmatic nature of wormholes hypothetical tunnels through the cosmos that could potentially allow for faster than light travel Explore the tantalizing possibility of time travel pondering its implications for our understanding of causality and the very nature of time itself Grapple with the mind boggling concept of quantum entanglement a phenomenon that defies classical notions of locality and suggests a deeper interconnectedness between particles across vast distances Investigate the elusive gravitational waves ripples in spacetime caused by cataclysmic cosmic events providing a new window into the most violent and energetic phenomena in the universe Prepare to have your perspective on reality challenged as you confront the

profound questions about the nature of existence and the interconnectedness of all things *Interstellar Adventures* is an invitation to embark on a journey of discovery to push the boundaries of human knowledge and to contemplate the awe inspiring mysteries that lie beyond our earthly realm If you like this book write a review

Reports on Astronomy Jacqueline Bergeron, 2012-12-06 IAU Transactions are published as a volume corresponding to each General Assembly Volume A is produced prior to the Assembly and contains Reports on Astronomy prepared by each Commission President The intention is to summarize the astronomical results that have affected the work of the Commission since the production of the previous Reports up to a time which is about one year prior to the General Assembly Volume B is produced after the Assembly and contains accounts of Commission Meetings which were held together with other material The reports included in the present volume range from outline summaries to lengthy compilations and references Most reports are in English

X-ray Binaries Walter H. G. Lewin, Walter H. Lewin, Edward P. J. van den Heuvel, Jan van Paradijs, 1997-01-16 X ray binaries are some of the most varied and perplexing systems known to astronomers The compact object which accretes mass from its companion star may be a white dwarf neutron star or black hole whereas the donor star can be a normal star or a white dwarf The various combinations differ widely in their behaviour and this timely volume provides a unique reference of our knowledge to date of all of them Fifteen specially written chapters by a team of the world s foremost researchers in the field explore all aspects of the X ray binaries They cover the X ray ultraviolet optical and radio properties of these violent systems and address key issues such as how were these systems formed and what will be their fate how can we understand X ray bursts and how the quasi periodic oscillations what is the connection between millisecond radio pulsars and low mass X ray binaries and how does the magnetic field of a neutron star decay This long awaited review provides graduate students and researchers with the standard reference on X ray binaries for many years to come

Interacting Binary Stars Jorge Sahade, Frank Bradshaw Wood, 2015-11-24 Interacting Binary Stars 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

Allen's Astrophysical Quantities Arthur N. Cox, 2015-03-19 This new fourth edition of Allen s classic *Astrophysical Quantities* belongs on every astronomer s bookshelf It has been thoroughly revised and brought up to date by a team of more than ninety internationally renowned astronomers and astrophysicists While it follows the basic format of the original this indispensable reference has grown to more than twice the size of the earlier editions to accommodate the great strides made in astronomy and astrophysics It includes detailed tables of the most recent data on General constants and units

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