

An Introduction To Close Binary Stars

Hardcover

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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 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 zdenek kopal in his home town birthplace of litomysl in czechia

from the reviews astronomy and astrophysics abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring 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 space science review dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use the series appears to be so complete in its coverage and always less than a year out of date that i shall certainly have to make a little more space on those shelves for future volumes the observatory magazine

the twentieth century has been a remarkable epoch in the affairs of men and this is no less true of astronomy at once the oldest and most modern of the sciences sky watchers at the beginning of the century measured positions and predicted celestial motions in faithful but uninspired homage to the muse urania nowadays their descendants call on all the resources of modern science to probe the nature and evolution of a bewildering range of celestial objects man has even set out to call personally on his nearest neighbours in space professor zdenek kopal has lived and practised astronomy throughout this efflorescence of his subject born in czechoslovakia just before the outbreak of the great war and educated in the classical european tradition he knows well the days when scholars commanded such respect that astronomical congresses would be visited by heads of state yet within his own lifetime he has himself been recruited to play an important role in scientific preparations for a manned moon landing he has known and worked with some of the most highly respected practitioners of modern astromomy russell shapley urey in the united states eddington in britain his fine eye for detail coupled with his strong sense of history enable him to unfold through his personal recollections the development of his subject across the social changes of two world wars inspired by his grandfather who would think nothing of walking sixty miles to theatrical performance the young kopal acquired a wanderlust that has taken him in his career more than a dozen times round the world he has visited the most ancient observatories observed solar eclipses in japan and java helped to establish new institutions in iraq and india and commuted for many years between the old and new worlds he has toiled in every corner of his chosen vinyard as observer outstanding theoretician populariser editor and teacher during his thirty years as professor of astronomy at manchester he

astronomy and astrophysics abstracts which has appeared in semi annual volumes since 1969 is de voted to the recording summarizing and indexing of astronomical publications throughout the world it is prepared under the auspices of the international astronomical union according to a resolution adopted at the 14th general assembly in 1970 astronomy and astrophysics abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months this time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user i 1980 some older volume 27 contains

literature published in 1980 and received before august literature which was received late and which is not recorded in earlier volumes is also included we acknowledge with thanks contributions to this volume by dr j bouska prague who surveyed journals and publications in czech and supplied us with abstracts in english

one of the most attractive features of the young discipline of space science is that many of the original pioneers and key players involved are still available to describe their field hence at this point in history we are in a unique position to gain first hand insight into the field and its development to this end the century of space science a scholarly authoritative reference book presents a chapter by chapter retrospective of space science as studied in the 20th century the level is academic and focuses on key discoveries how these were arrived at their scientific consequences and how these discoveries advanced the thoughts of the key players involved with over 90 world class contributors such as james van allen cornelis de jager eugene parker reimar lust and ernst stuhlinger and with a foreword by lodewijk woltjer past eso director general this book will be immensely useful to readers in the fields of space science astronomy and the history of science both academic institutions and researchers will find that this major reference work makes an invaluable addition to their collection

advances in astronomy and astrophysics volume 4 brings together numerous research works on different aspects of astronomy and astrophysics this volume is composed of five chapters and starts with a description of objective prism and its application in space observations the next chapter deals with the possibilities of deriving reliable models of the figure density distribution and gravity field of the moon based on data obtained through earth bound telescopes these topics are followed by a discussion on the ideal partially relativistic partially degenerate gas in an exact manner a chapter examines first the effect of exchange of matter on the periods of close binary systems and then briefly surveys the mechanisms of mass loss other causes of period changes and related evolutionary problems the last chapter looks into the cometary origin of meteorites this book will prove useful to astronomers and astrophysicists

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