

# **The Roche Problem**

**Zdeněk Kopal**



**Astrophysics and  
Space  
Science  
Library**

**Kluwer Academic Publishers**

# Roche Problem And Its Significance For Double Star Astronomy

**James Jeans**



## **Roche Problem And Its Significance For Double Star Astronomy:**

*The Roche Problem* Zdenek Kopal, 2012-12-06 The words of this preface were written when the book was ready to go to the press and are limited to only a few points which are best made in this place As is intimated by the sub title the whole volume was written with applications in mind to double star astronomy The latter is however not the only branch of our science which could benefit from its contents The same is true of certain aspects of the dynamics of stellar systems or galaxies the stellar populations of which are also characterized by the fact that the mean free path of their constituent stars are long in comparison with the dimensions of the respective systems the central condensations of which are high enough to approximate the gravitational action of a mass point This fact did not to be sure escape the attention of previous investigators in the case of globular clusters in particular the Roche model was introduced in their studies under the guise of polytropic models characterized by the index  $n = 5$  though no particular attention will be paid to these in this book But possible applications of the Roche model are not limited to problems arising in stellar astrophysics With Coulomb forces replacing gravitation the equilibrium model finds a close analogy in the field of electrostatics as was pointed out already at the beginning of this century by then young J H Jeans cf *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 Litomyšl 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 Literature 1989, Part 1 Astronomisches Rechen-Institut, 2013-11-11 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      Mathematical Theory of Stellar Eclipses Zdenek Kopal,2012-12-06 ASTRONOMICAL ECLIPSE PHENOMENA In looking over the long history of human science from time immemorial to our own times it is impossible to overestimate the role played in it by the phenomena of eclipses of the celestial bodies both within our solar system as well as in the stellar universe at large Not later than in the 4th century B C the observed features of the shadow cast on the Moon by the Earth during eclipses led Aristotle 384 322 B C to formulate the first scientific proof worthy of that name of the spherical shape of the Earth and only somewhat later the eclipses of the Sun provided Aristarchos in the early part of the 3rd century B C or Hipparchos 2nd half of the same century with the geometric means to ascertain the distance which separates the Earth from the Sun In the 17th century A D in 1676 to be exact the timings of the eclipses of the satellites of Jupiter by their central planet enabled Olaf Romer to discover that the velocity with which light propagates through space is finite      *Romanian Astronomical Journal* ,1992      *Advances in Astronomy and Astrophysics* Zdeněk Kopal,2013-10-22 *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      *Space Geodesy and Space Geodynamics* Milan Burša,Jan Kostelecký,1999

*Encyclopedia of Astronomy & Astrophysics* P Murdin,2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work      Accretion Power in Astrophysics Juhan Frank,A. R. King,Derek Raine,2002-01-17 *Accretion Power in Astrophysics* examines accretion as a source of energy in both binary star systems

containing compact objects and in active galactic nuclei Assuming a basic knowledge of physics the authors describe the physical processes at work in accretion discs and other accretion flows The first three chapters explain why accretion is a source of energy and then present the gas dynamics and plasma concepts necessary for astrophysical applications The next three chapters then develop accretion in stellar systems including accretion onto compact objects Further chapters give extensive treatment of accretion in active galactic nuclei and describe thick accretion discs A new chapter discusses recently discovered accretion flow solutions The third edition is greatly expanded and thoroughly updated New material includes a detailed treatment of disc instabilities irradiated discs disc warping and general accretion flows The treatment is suitable for advanced undergraduates graduate students and researchers      *Publications of Goddard Space Flight Center* Goddard Space Flight Center,1964      *General Relativity* Norbert Straumann,2012-10-09 This book provides a completely revised and expanded version of the previous classic edition *General Relativity and Relativistic Astrophysics* In Part I the foundations of general relativity are thoroughly developed while Part II is devoted to tests of general relativity and many of its applications Binary pulsars our best laboratories for general relativity are studied in considerable detail An introduction to gravitational lensing theory is included as well so as to make the current literature on the subject accessible to readers Considerable attention is devoted to the study of compact objects especially to black holes This includes a detailed derivation of the Kerr solution Israel s proof of his uniqueness theorem and a derivation of the basic laws of black hole physics Part II ends with Witten s proof of the positive energy theorem which is presented in detail together with the required tools on spin structures and spinor analysis In Part III all of the differential geometric tools required are developed in detail A great deal of effort went into refining and improving the text for the new edition New material has been added including a chapter on cosmology The book addresses undergraduate and graduate students in physics astrophysics and mathematics It utilizes a very well structured approach which should help it continue to be a standard work for a modern treatment of gravitational physics The clear presentation of differential geometry also makes it useful for work on string theory and other fields of physics classical as well as quantum      International Aerospace Abstracts ,1990      **Astronomy and Cosmogony** James Jeans, **Engineering; an Illustrated Weekly Journal** ,1905      NASA Thesaurus ,1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved      **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 out performs 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 dose binary stars Usually a page or two will do and the emphasis is on the MLR mass luminosity radius data obtained only from binaries      *Accretion Power in Astrophysics* J. R. Frank,A. R. King,D. J. Raine,1985-04-18 This book is an account of the accretion of matter by massive astronomical objects It sets out the physics of the accretion process in detail This is related to observations of the accretion phenomenon in stellar systems and galaxies The power derived through accretion processes is a dominant source of emission energy in X ray stars and the cores of active galaxies This book takes the physics undergraduate to a point at which it is possible to start independent research It is suitable for graduate courses as well as providing an overview for the professional      *Nuclear Science Abstracts* ,1976-03      Popular Astronomy ,1920      **The Observatory** ,1917 A review of astronomy varies

## **Roche Problem And Its Significance For Double Star Astronomy** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Roche Problem And Its Significance For Double Star Astronomy**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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