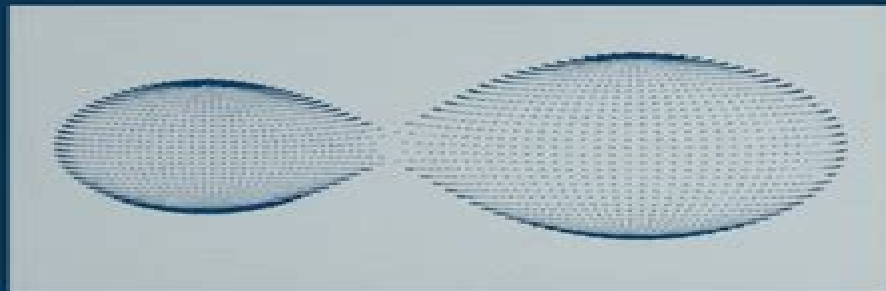


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Light Curve Modeling of Eclipsing Binary Stars



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Light Curve Modeling Of Eclipsing Binary Stars

Michael Perryman



Light Curve Modeling Of Eclipsing Binary Stars:

Light Curve Modeling of Eclipsing Binary Stars E.F. Milone, 1993 In the two decades since the development of the first eclipsing binary modeling code new analytic techniques and the availability of powerful sometimes dedicated computing facilities have made possible vastly improved determinations of fundamental and even transient stellar parameters The scale of these developments of course raises questions about modeling tools techniques and philosophies such as Who will maintain and upgrade the codes Will the codes be open to improvement by outsiders and if so how And indeed what should be the goals of a modeling program Such questions had not been aired for a long time and for this reason alone deserved to be discussed in as general a forum as the community provides This volume contains material presented by Commission 42 Close Binary Stars during the International Astronomical Union's XXI General Assembly in Argentina July 1991 and during IAU Colloquium 151 Cordoba Argentina August 1991 The techniques discussed include simulations of stellar bright and dark spots streams partial and complete stellar disks prominences and other features characterizing active stars modeling of polarization parameters models that use radial velocities as well as line profile simulations to model velocity field variation across stellar disks the weighted effects of brightness asymmetries and models for translucent eclipsing agents such as stellar winds

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

Eclipsing Binary Stars Panagiotis G. Niarchos, Odes'kyi derzhavnyi universytet imeni I.I. Mechnykova, 2001 The importance of studying Eclipsing Binary Stars for the determination of fundamental stellar data is sketched The eclipsing binaries originally classified phenomenologically are now understood on the basis of much firmer physics and the improved understanding has led to a morphological basis of classification The main light curve models developed since Russell's era are presented along with the respective programs for analysis Kallrath Milone 1999 These models are based on the geometric effects due to eclipses and on physical proximity effects between the components

Significant progress was made in the early 1970s when models and programs were developed to compute synthetic light and velocity curves directly. Such models and programs were based on spherical stars, ellipsoidal geometry and on Roche geometry. During the last 25 years the analysis of photometric and spectroscopic data of eclipsing binaries has been performed by means of synthetic light curve programs based on Roche geometry. The synthetic light curve programs based on physical models have contributed to our understanding of physical processes in stars and have been used to solve several important astrophysical problems. A desirable feature of a light curve program is the ability to incorporate additional astrophysics. There is a continuing need to improve the model physics as we become more aware of the observational properties of stars. Nuclear Science Abstracts, 1976 Literature 1981, Part 1 Siegfried Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmädel, Gert Zech, 2013-11-11

Theory and Practice of Natural Computing Adrian-Horia Dediu, Carlos Martín-Vide, Bianca Truthe, 2012-09-26 This book constitutes the refereed proceedings of the First International Conference TPNC 2012 held in Tarragona Spain in October 2012. The 12 revised full papers presented together with 6 invited talks were carefully reviewed and selected from 34 submissions. The papers are organized in topical sections on nature inspired models of computation synthesizing nature by means of computation, nature inspired materials and information processing in nature. Transiting Planets (IAU S253) International Astronomical Union. Symposium, 2009-04-16 The discovery of planets around stars other than the Sun within the past 15 years has opened up one of the largest and most exciting new fields in modern astronomy. The transit method of detecting exoplanets has revealed more information about individual planets than any other method of detection. This volume, the proceedings of IAU Symposium 253, contains a description of the latest development in the field of transiting extrasolar planets. Topical reviews and short contributions from more than one hundred authors present the latest results in the field from the photometric transit searches for transiting planets through observational studies of these planets to the consequences for theories of planet formation, evolution and planetary atmospheres. Presenting the latest research, it is an important resource for graduate students and researchers working in astronomy and planetary sciences. **Binary Stars as Critical Tools and Tests in Contemporary Astrophysics (IAU S240)** International Astronomical Union. Symposium, 2007-08-27 IAU Symposium 240 held in conjunction with the 26th General Assembly of the International Astronomical Union highlights the latest advances in the field of binary and multiple stars and was the first major meeting in recent years bringing together members of both the wide and close binary communities. Topics discussed ranged from common proper motion pairs and other fragile binaries to contact binaries and star-brown dwarf planet systems, exploring the numerous interests common to all binary star researchers. Highlights included talks on observing binaries using high angular and spectral resolution techniques, the impacts of new and planned large scale surveys, recent models for binary evolution, new methods for analyzing cataclysmic pairs and disentangling spectra, surveys of extragalactic eclipsing binaries, Doppler

tomography and imaging and binaries as probes of the Galaxy's chemical and dynamical evolution This volume will be an important reference source for binary star researchers for many years to come **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 1984, Part 1** S. Böhme, Prof. Dr. Walter Fricke, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-11-11 **Astronomical Discoveries You Can Make, Too!** Robert K. Buchheim, 2015-05-12 You too can follow in the steps of the great astronomers such as Hipparchus Galileo Kepler and Hubble who all contributed so much to our modern understanding of the cosmos This book gives the student or amateur astronomer the following tools to replicate some of these seminal observations from their own homes With your own eyes Use your own observations and measurements to discover and confirm the phenomena of the seasons the analemma and the equation of time the logic behind celestial coordinates and even the precession of the equinoxes With a consumer grade digital camera Record the changing brightness of an eclipsing binary star and show that a pulsating star changes color as it brightens and dims Add an inexpensive diffraction grating to your camera and see the variety of spectral features in the stars and demonstrate that the Sun's spectrum is similar to one particular type of stellar spectrum With a backyard telescope Add a CCD imager and you can measure the scale of the Solar System and the distance to a nearby star You could even measure the distance to another galaxy and observe the cosmological redshift of the expanding universe Astronomical Discoveries You Can Make Too doesn't just tell you about the development of astronomy it shows you how to discover for yourself the essential features of the universe **Physics Briefs**, 1993 **The Exoplanet Handbook** Michael Perryman, 2018-08-30 A complete and in depth review of exoplanet research covering the discovery methods physics and theoretical background **An Introduction to Modern Astrophysics** Bradley W. Carroll, Dale A. Ostlie, 2017-09-07 An Introduction to Modern Astrophysics is a comprehensive well organized and engaging text covering every major area of modern astrophysics from the solar system and stellar astronomy to galactic and extragalactic astrophysics and cosmology Designed to provide students with a working knowledge of modern astrophysics this textbook is

suitable for astronomy and physics majors who have had a first year introductory physics course with calculus Featuring a brief summary of the main scientific discoveries that have led to our current understanding of the universe worked examples to facilitate the understanding of the concepts presented in the book end of chapter problems to practice the skills acquired and computational exercises to numerically model astronomical systems the second edition of An Introduction to Modern Astrophysics is the go to textbook for learning the core astrophysics curriculum as well as the many advances in the field

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

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

Literature 1980, Part 2 Siegfried Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmädel, Gert Zech, 2013-04-18

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

Scientific and Technical Aerospace Reports, 1989

Literature 1987, Part 2 U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmädel, G. Zech, 2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their

border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 44 records literature published in 1987 and received before February 15 1988 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Dr Siegfried B hme retired from his duties as co editor of Astronomy and Astrophysics Abstracts on December 31 1987 Since 1950 he participated in the bibliographic work of the institute He served as a reviewer for the Astronomischer Jahresbericht and became one of the editors of Astronomy and Astrophysics Abstracts in 1969 After his retirement in 1975 he took care of particularly the Russian literature on a voluntary basis for 12 years It is a pleasure to thank Siegfried B hme for his valuable contributions Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Christiane Jehn Ms Monika Kohl Ms

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