

Eclipsing Binary Simulator – Student Guide

Background Material

Complete the following queries after reviewing the Read the Gizmo! page.

Question 1: Carefully describe what the colors of stars in the panel relative to the star mean. How do colors of stars compare?

Question 2: Complete the following table relative to the location of the center of mass.

Star	Star 1 Mass (M_{s1})	a	Star 2 Mass (M_{s2})	a	M_{cm}
System A	10	10	10	10	
System B	5	10	5	10	
System C	5	10	10	10	10

Question 3: If a smaller star is completely obscured by a larger, full-sized star, the light of both stars during the binary system would be best described as (circle your answer below)

- no change
- no change 10%
- no change 20%

Question 4: Complete the following table relative to the components.

Star	Temperature (T_{s1})	Radius (R_{s1})	Temperature (T_{s2})
Star A		10	10
Star B	10		10
Star C		10	10

Question 5: A quadrilateral describes exactly what you imagine this you make measurements of the height of the top of the window (total) and found a perfectly good old (you described this a right corner) if you take an observation at 2:00 pm, what would be the shape of the observation? Explain.

Eclipsing Binary Simulator Answers

PT Brinkman



Eclipsing Binary Simulator Answers:

Redshift Astronomy Workbook Bill O. Walker, 2000 *Horizons - Seeds Im/Tb Seeds*, 1997-08 Guide to Eclipsing Binary Stars Alex Vincent, 2017 International Aerospace Abstracts , 1988 **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

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

An atlas of O-C diagrams of eclipsing binary stars Jerzy Marek Kreiner, Chun-Hwey Kim, Il-song Na, 2000 Modeling and Analysis of Eclipsing Binary Stars Andrej Prša, 2018 The fascinating and observationally spectacular world of binary stars is a vast and beautiful one that is a significant aspect of many astrophysical studies Modeling and Analysis of Eclipsing Binary Stars gives a comprehensive analysis and description of the science behind eclipsing binaries It also explores the assumptions and the

difficulties that can occur when using the modeling principles of the classical codes as well as introducing PHOEBE the PHysics Of Eclipsing BinariEs a modern suite for modeling binary stars PHOEBE was conceived by Andrej Prsa and his collaborators and has become one of the standard tools in the eclipsing binary field Source résumé de l'auteur **An atlas of O-C diagrams of eclipsing binary stars** Jerzy Marek Kreiner, Chun-Hwey Kim, Il-söng Na, 2000 Modeling and Analysis of Eclipsing Binary Stars: The Theory and Design Principles of PHOEBE Andrej Prsa, 2018-12-21 Modeling and Analysis of Eclipsing Binary Stars provides a comprehensive review of the physical and observational aspects of eclipsing binaries and the modeling code PHOEBE PHysics Of Eclipsing BinariEs that is used by a large number of researchers in this field Aimed at students researchers and astronomers this book is the foundation of knowledge for eclipsing binaries and their subsequent modeling **An atlas of O-C diagrams of eclipsing binary stars** Jerzy Marek Kreiner, Chun-Hwey Kim, Il-söng Na, 2000 *An atlas of O-C diagrams of eclipsing binary stars* Jerzy Marek Kreiner, Chun-Hwey Kim, Il-söng Na, 2000 **An atlas of O-C diagrams of eclipsing binary stars** Jerzy Marek Kreiner, Chun-Hwey Kim, Il-söng Na, 2000 *Eclipsing Binary Stars* Alex Vincent, 2000 *Eclipsing Binary Stars* Donald Edmund Kluzik, 1995 *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 The Eclipsing Binary Star Program, 1965 *On Solution of the Light Curve of an Eclipsing Binary with Elliptical Orbit* John Ellsworth Merrill, Robert Lynn Coldwell, 1981 **Light curve determination for eclipsing binary star systems** David Franklin Hale, 1976 *The Orbits of Three Eclipsing Binary Stars* Walter Lodovico Gorza, 1970

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