

## Eclipsing Binary Simulator – Student Guide

### Background Material

Complete the following queries after reviewing the first two simulated pages.

**Question 1:** Carefully describe what the names of stars in the simulator tell you about their membership in binary systems.

**Question 2:** Complete the following table indicating the location of the center of mass.

Star	Star 1 Mass ( $M_{\odot}$ )	$a$	Star 2 Mass ( $M_{\odot}$ )	$a$	$M_{CM}$
System A	10	10	10	100	
System B	10	10	1	10	
System C	1	10	10	10	10

**Question 3:** If a protostar that spins and spins out is completely obscured by a larger, fully-merged companion (the drop in total luminosity of the binary system would be less observed as greater mass accretion occurs)

- are very large
- are around 100%
- are very small

**Question 4:** Complete the following table indicating orbital parameters.

Star	Transit depth (%)	Duration (hr)	Transit depth (%)
Star A		10	1
Star B	10		1
Star C		10	1

**Question 5:** A protostar that spins rapidly at once, imagine that you make measurements of the height of the top of the central disk and make a periodic graph of time (the height like a light curve). If you make an observation at 1:00 pm, what would be the shape of the observation? (Sketch)

# Eclipsing Binary Simulator Answers

**Alex Vincent**



## **Eclipsing Binary Simulator Answers:**

Redshift Astronomy Workbook Bill O. Walker, 2000      Horizons - Seeds Im/Tb Seeds, 1997-08      Eclipsing Binary Stars Josef Kallrath, E. F. Milone, 1999 This book provides astronomers with a guide to specifying an astrophysical model for a set of observations selecting an algorithm to determine the parameters of the model and estimating the errors of the parameters

**International Aerospace Abstracts**, 1988      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      *Guide to Eclipsing Binary Stars* Alex Vincent, 2017

**Eclipsing Binary Stars**, 1998 This book focuses on the formulation of mathematical models for the light curves of eclipsing binary stars and on the algorithms for generating such models Since information gained from binary systems provides much of what we know of the masses luminosities and radii of stars such models are acquiring increasing importance in studies of stellar structure and evolution As in other areas of science the computer revolution has given many astronomers tools that previously only specialists could use anyone with access to a set of data can now expect to be able to model it This book will provide astronomers both amateur and professional with a guide for specifying an astrophysical model for a set of observations selecting an algorithm to determine the parameters of the model estimating the errors of the parameters It is written for readers with knowledge of basic calculus and linear algebra appendices cover mathematical details on such matters as optimization coordinate systems and specific models While emphasizing the physical and mathematical framework the discussion remains close to the problems of actual implementation It begins with an overview of the problem and a discussion of the observational data that form the basis of any model The treatment then turns to the direct problem computing the light curve and other observables from a given set of parameters and then to the indirect problem determining a best fit set of parameters from the data The book concludes with chapters on specific models and

approaches and the authors views on the structure of future light curve programs

**On Solution of the Light Curve of an Eclipsing Binary with Elliptical Orbit** John Ellsworth Merrill, Robert Lynn Coldwell, 1981

**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

Eclipsing Binary Stars Donald Edmund Kluzik, 1995

*An atlas of O-C diagrams of eclipsing binary stars* Jerzy Marek Kreiner, Chun-Hwey Kim, Il-song Na, 2000

**Light curve determination for eclipsing binary star systems** David Franklin Hale, 1976

*An atlas of O-C diagrams of eclipsing binary stars* Jerzy Marek Kreiner, Chun-Hwey Kim, Il-söng Na, 2000

*The Eclipsing Binary Star Program*, 1967

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

*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 Pr a and his collaborators and has become one of the standard tools in the eclipsing binary field

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Na, 2000      *Eclipsing Binary Stars* Alex Vincent, 2000

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