

Eclipsing Binary Simulator – Student Guide

Background Material

Complete the following section after reviewing the four background pages.

Question 1: Crudely describe where the center of mass is located relative to the two stars that make up a binary system. When comparing 2 stars the center of the larger star will have a larger mass.

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

Star	Star 1		Star 2		x_{CM}
	Mass (M_{\odot})	x	Mass (M_{\odot})	x	
System A	6	0	6	10	5
System B	4	0	2	6	2
System C	3	0	6	6	4

Question 3: If a small O2 spectral type star is completely obscured by a large M4 spectral type star, the drop in total luminosity of the binary system would be best described as ...

- a) very large
- b) around 50%
- c) very small

Question 4: Complete the following table related to stellar luminosities.

Star	Luminosity (L_{\odot})	Radius (R_{\odot})	Temperature (T_{\odot})
Star A	9	3	1
Star B	16	1	2
Star C	4	$\frac{1}{2}$	2

Question 5: A grandfather clock starts exactly at noon. Imagine that you make measurements of the height of the tip of the minute hand and create a periodic graph of your data (much like a light curve). If you make an observation at 2:40 pm, what would be the phase of this observation? Explain. 16 divided by 24 is .66 therefore the min hand would have completed 66 % of its cycle.

Eclipsing Binary Star Student Guide Answers

Lauren Gardner



Eclipsing Binary Star Student Guide Answers:

Student Study Guide to Accompany Astronomy Michel Breger,1975 **Study Guide for Project: Universe** Stephen P. Lattanzio,1981 **Student Self-study Guide, an Introduction to Astronomy, 8th Edition** Rebecca M. Berg,1974 **A Study Guide to Accompany the Dynamic Universe** C. D. Garmany,Stephen J. Shawl,1983 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December In Quest of the Stars and Galaxies Theo Koupelis,2010-01-26

In Quest of the Universe Theo Koupelis,Karl F. Kuhn,2007 New to this Edition A new chapter on the Night Sky urges students to become backyard astronomers and observe the sky on multiple clear nights while taking note of the patterns of the positions of stars and planets New to this *Project Universe* Joel M. Levine,Levine,Abell,Richard T. Searles,1992

The Annual Guides to Graduate Study ,1972 **Peterson's Annual Guides/graduate Study** Peterson's Guides, Inc,1982 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office,1961-07 **Nuclear Science Abstracts** ,1975-04 **Physics Briefs** ,1992 **Physics** Physical Science Study Committee,1961 *INIS Atomindex* ,1980 *The World Book Encyclopedia: Research Guide - Index* World Book, Inc,2007 An encyclopedia designed especially to meet the needs of elementary junior high and senior high school students **The Space Encyclopaedia** M. T. Bizony,1957 The New Space Encyclopaedia ,1969 **Astronomy and Astrophysics Monthly Index** ,1988 *Government Reports Announcements & Index* ,1993-05

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Table of Contents Eclipsing Binary Star Student Guide Answers

1. Understanding the eBook Eclipsing Binary Star Student Guide Answers
 - The Rise of Digital Reading Eclipsing Binary Star Student Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Eclipsing Binary Star Student Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Eclipsing Binary Star Student Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Eclipsing Binary Star Student Guide Answers
 - Personalized Recommendations
 - Eclipsing Binary Star Student Guide Answers User Reviews and Ratings
 - Eclipsing Binary Star Student Guide Answers and Bestseller Lists

5. Accessing Eclipsing Binary Star Student Guide Answers Free and Paid eBooks
 - Eclipsing Binary Star Student Guide Answers Public Domain eBooks
 - Eclipsing Binary Star Student Guide Answers eBook Subscription Services
 - Eclipsing Binary Star Student Guide Answers Budget-Friendly Options
6. Navigating Eclipsing Binary Star Student Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Eclipsing Binary Star Student Guide Answers Compatibility with Devices
 - Eclipsing Binary Star Student Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Eclipsing Binary Star Student Guide Answers
 - Highlighting and Note-Taking Eclipsing Binary Star Student Guide Answers
 - Interactive Elements Eclipsing Binary Star Student Guide Answers
8. Staying Engaged with Eclipsing Binary Star Student Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Eclipsing Binary Star Student Guide Answers
9. Balancing eBooks and Physical Books Eclipsing Binary Star Student Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Eclipsing Binary Star Student Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Eclipsing Binary Star Student Guide Answers
 - Setting Reading Goals Eclipsing Binary Star Student Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Eclipsing Binary Star Student Guide Answers
 - Fact-Checking eBook Content of Eclipsing Binary Star Student Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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