

ASTRONOMY 3

Midterm 2

The Second Midterm will be on Wednesday, February 27 during the class hour from 12 – 1 Pm. The format of the exam is 40 multiple-choice questions. All questions have the same value and four possible answers, only one of which is correct. **Please bring a Number 2 pencil**. You will be provided with a Scantron Sheet, and you must hand-in both the **Exam** and the **Scantron sheet**. Be sure to fill out the requested Name, Signature, and Student ID Number on the Exam, and your printed full name at the top, **your name bubbled-in**, and your **student ID number bubbled-in** at the bottom of the **Scantron sheet** (the latter are required fields).

The Midterm will cover the material starting from the formation of stars and going through white dwarfs and novae. The Midterm will NOT cover supernovae and neutron stars.

You should be familiar with the following:

- Understand the basic stages of star formation from the initial collapse of a knot within a giant molecular cloud, the first dynamical collapse, the second dynamical collapse, the Hayashi Phase, and final evolution onto the ZAMS. You will NOT need to know the time of specific events or the precise values of the star's temperature, radius, luminosity, etc., for the different formation phases.

(collapse?) STAGES OF STAR FORMATION



Stage 1 – giant molecular cloud

Stage 2 – first dynamical collapse

Stage 3/4 – second dynamical collapse (also protostar?)

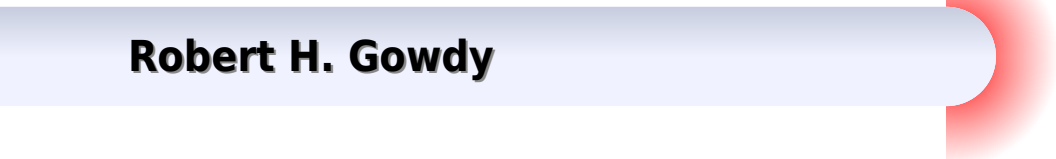
Stage 5 – protostar

1. Giant molecular cloud

- Time scale: 2×10^6 years
- Event: giant molecular cloud fragments into solar mass-size clumps or cores

Astronomy 115 Midterm Study Guide

Robert H. Gowdy



Astronomy 115 Midterm Study Guide:

Powering Science National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Large Strategic NASA Science Missions: Science Value and Role in a Balanced Portfolio, 2018-01-29 NASA's Science Mission Directorate SMD currently operates over five dozen missions with approximately two dozen additional missions in development. These missions span the scientific fields associated with SMD's four divisions: Astrophysics, Earth Science, Heliophysics, and Planetary Sciences. Because a single mission can consist of multiple spacecraft, NASA SMD is responsible for nearly 100 operational spacecraft. The most high profile of these are the large strategic missions often referred to as flagships. Large strategic missions are essential to maintaining the global leadership of the United States in space exploration and in science because only the United States has the budget, technology, and trained personnel in multiple scientific fields to conduct missions that attract a range of international partners. This report examines the role of large strategic missions within a balanced program across NASA SMD space and Earth sciences programs. It considers the role and scientific productivity of such missions in advancing science technology and the long term health of the field and provides guidance that NASA can use to help set the priority of larger missions within a properly balanced program containing a range of mission classes.

Arts & Humanities Citation Index, 1985. A multidisciplinary index covering the journal literature of the arts and humanities. It fully covers 1,144 of the world's leading arts and humanities journals and indexes individually selected relevant items from over 6,800 major science and social science journals.

Astronomy Study Guide and Exercises for Distance Education John L. Safko, 1992-06-01

Astronomy Study Guide Robert H. Gowdy, 2021-07-30

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Study Guide for Astronomy 1-011 and 1-021 University of Minnesota. Department of Astronomy, 1975

Study Guide for Parker's Concepts of the Cosmos, an Introduction to Astronomy Ronald J. Bieniek, 1984

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Table of Contents Astronomy 115 Midterm Study Guide

1. Understanding the eBook Astronomy 115 Midterm Study Guide
 - The Rise of Digital Reading Astronomy 115 Midterm Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Astronomy 115 Midterm Study Guide
 - 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 Astronomy 115 Midterm Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astronomy 115 Midterm Study Guide
 - Personalized Recommendations
 - Astronomy 115 Midterm Study Guide User Reviews and Ratings
 - Astronomy 115 Midterm Study Guide and Bestseller Lists

5. Accessing Astronomy 115 Midterm Study Guide Free and Paid eBooks
 - Astronomy 115 Midterm Study Guide Public Domain eBooks
 - Astronomy 115 Midterm Study Guide eBook Subscription Services
 - Astronomy 115 Midterm Study Guide Budget-Friendly Options
6. Navigating Astronomy 115 Midterm Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Astronomy 115 Midterm Study Guide Compatibility with Devices
 - Astronomy 115 Midterm Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astronomy 115 Midterm Study Guide
 - Highlighting and Note-Taking Astronomy 115 Midterm Study Guide
 - Interactive Elements Astronomy 115 Midterm Study Guide
8. Staying Engaged with Astronomy 115 Midterm Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astronomy 115 Midterm Study Guide
9. Balancing eBooks and Physical Books Astronomy 115 Midterm Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astronomy 115 Midterm Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Astronomy 115 Midterm Study Guide
 - Setting Reading Goals Astronomy 115 Midterm Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Astronomy 115 Midterm Study Guide
 - Fact-Checking eBook Content of Astronomy 115 Midterm Study Guide
 - 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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