

# CHAPTER 24: EARTH, MOON, AND SUN

## ESC-1 GUIDED NOTES

### SECTION 24.1 – PLANET EARTH

#### LESSON OBJECTIVES

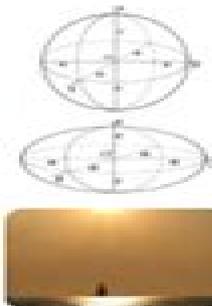
- Recognize that Earth is a modified sphere (oblate spheroid), and describe the evidence for this conclusion.
- Explain what causes Earth's magnetism and the effects that magnetism has on the Earth.
- Describe Earth's rotation on its axis.
- Describe Earth's revolution around the Sun.

#### INTRODUCTION

- This whole semester we focused entirely on the processes of Earth
- This chapter is concerned with Earth as a planetary body
  - Earth's shape
  - Earth's magnetism
  - Earth's motions
    - ◆ rotation
    - ◆ revolution

#### EARTH AS A PLANETARY BODY

- Earth's Shape
  - generally regarded as a Sphere
  - BUT is actually an Oblate spheroid (squished down at the poles and bulges a bit at the equator)
- Earth's hemispheres
  - northern hemisphere: half of the oblate spheroid Above the equator
  - southern hemisphere: half of the oblate spheroid Below the equator
- Evidence of Earth's shape
  - while standing on shore observing a ship going out to sea, ship gets smaller as it moves farther away but the ship's bottom also starts to disappear as the vessel goes around the arc of the planet
- Earth's magnetic field
  - Earth's magnetic field behaves like a gigantic bar magnet
  - Magnetic field arises from the Convection of molten iron and nickel metal in Earth's outer liquid Core
  - Extends several thousand kilometers into space
  - Shields planet from harmful Radiation from the Sun



# Chapter 24 Earth Resources Study Key

**Peter Eckart**



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**Remote Sensing of Earth Resources** NASA Scientific and Technical Information Facility, 1970 Scientific and Technical Aerospace Reports, 1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Earth Resources Survey Benefit-cost Study* Earth Satellite Corporation, 1974 **Resources in Education**, 1979 Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Advanced Dam Engineering for Design, Construction, and Rehabilitation** R.B. Jansen, 2012-12-06 The present state of the art of dam engineering has been environmental and political factors which though important attained by a continuous search for new ideas and methods are covered in other publications while incorporating the lessons of the past In the last 20 The rapid progress in recent times has resulted from the years particularly there have been major innovations due combined efforts of engineers and associated scientists as largely to a concerted effort to blend the best of theory and exemplified by the authorities who have contributed to this practice Accompanying these achievements there has been book These individuals have brought extensive knowledge a significant trend toward free interchange among the pro to the task drawn from experience throughout the world professional disciplines including open discussion of prob With the convergence of such distinguished talent the problems and their solutions The inseparable relationships of opportunity for accomplishment was substantial I gratefully hydrology geology and seismology to engineering have acknowledge the generous cooperation of these writers and been increasingly recognized in this field where progress am indebted also to other persons and organizations that is founded on interdisciplinary cooperation have allowed reference to their publications and I have This book presents advances in dam engineering that attempted to acknowledge this obligation in the sections have been achieved in recent years or are under way At where the material is used These courtesies are deeply attention is given to practical aspects of design construction appreciated **Earth Resources**, 1985 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International Aerospace Abstracts IAA The Lunar Base Handbook Peter Eckart, 1999 Lunar Base Handbook provides an overview about the Moon and its environment the current status of lunar base design tools we need to design a lunar base checklists and flow charts that outline the design process and technological requirements of a lunar base The main audience for this book is engineers but it is also interesting for scientists managers lawyers undergraduates and high school students

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## **Table of Contents Chapter 24 Earth Resources Study Key**

1. Understanding the eBook Chapter 24 Earth Resources Study Key
  - The Rise of Digital Reading Chapter 24 Earth Resources Study Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 24 Earth Resources Study Key
  - 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 Chapter 24 Earth Resources Study Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 24 Earth Resources Study Key
  - Personalized Recommendations
  - Chapter 24 Earth Resources Study Key User Reviews and Ratings
  - Chapter 24 Earth Resources Study Key and Bestseller Lists
5. Accessing Chapter 24 Earth Resources Study Key Free and Paid eBooks
  - Chapter 24 Earth Resources Study Key Public Domain eBooks
  - Chapter 24 Earth Resources Study Key eBook Subscription Services

- Chapter 24 Earth Resources Study Key Budget-Friendly Options
- 6. Navigating Chapter 24 Earth Resources Study Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 24 Earth Resources Study Key Compatibility with Devices
  - Chapter 24 Earth Resources Study Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 24 Earth Resources Study Key
  - Highlighting and Note-Taking Chapter 24 Earth Resources Study Key
  - Interactive Elements Chapter 24 Earth Resources Study Key
- 8. Staying Engaged with Chapter 24 Earth Resources Study Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 24 Earth Resources Study Key
- 9. Balancing eBooks and Physical Books Chapter 24 Earth Resources Study Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 24 Earth Resources Study Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 24 Earth Resources Study Key
  - Setting Reading Goals Chapter 24 Earth Resources Study Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 24 Earth Resources Study Key
  - Fact-Checking eBook Content of Chapter 24 Earth Resources Study Key
  - 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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