

CHAPTER 24: EARTH, MOON, AND SUN

ESC-1 GUIDED NOTES

SECTION 24.1 – PLANET EARTH

LESSON OBJECTIVES

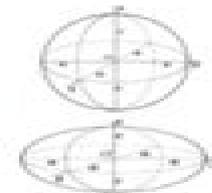
- Recognize that Earth is a modified sphere (oblate spheroid), and describe the evidence for this conclusion.
- Explain what causes Earth's magnetism and the effects that magnetism has on the Earth.
- Describe Earth's rotation on its axis.
- Describe Earth's revolution around the Sun.

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

**Heidi Hayes Jacobs, Brenda
Randolph, Michal LeVasseur**



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Remote Sensing of Earth Resources NASA Scientific and Technical Information Facility, 1970 **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 *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 **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 fessional disciplines including open discussion of prob With the convergence of such distinguished talent the op lems and their solutions The inseparable relationships of portunity 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 ap tention is given to practical aspects of design construction preciated

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 and readable for the interested layman **Prentice Hall World Explorer: Eastern Hemisphere**
Heidi Hayes Jacobs, Brenda Randolph, Michal LeVasseur, Yvonne S. Gentzler, 2003 **The World Around Us the World**
Past and Present James Banks, 1992-06 Social Studies for a Changing World **The Bloomsbury Handbook of Hindu**
Ethics Pratap Kumar Penumala, Arvind Sharma, 2026-03-05 A comprehensive account of Hindu ethics discourse
encompassing classical and contemporary perspectives **Subject Catalog, 1981** Library of Congress, 1981 **Earth's**
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Remote Sensing: Interpretations and applications Robert N. Colwell, American Society of Photogrammetry, 1983 Volume 1
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W. Pipkin, 2001

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