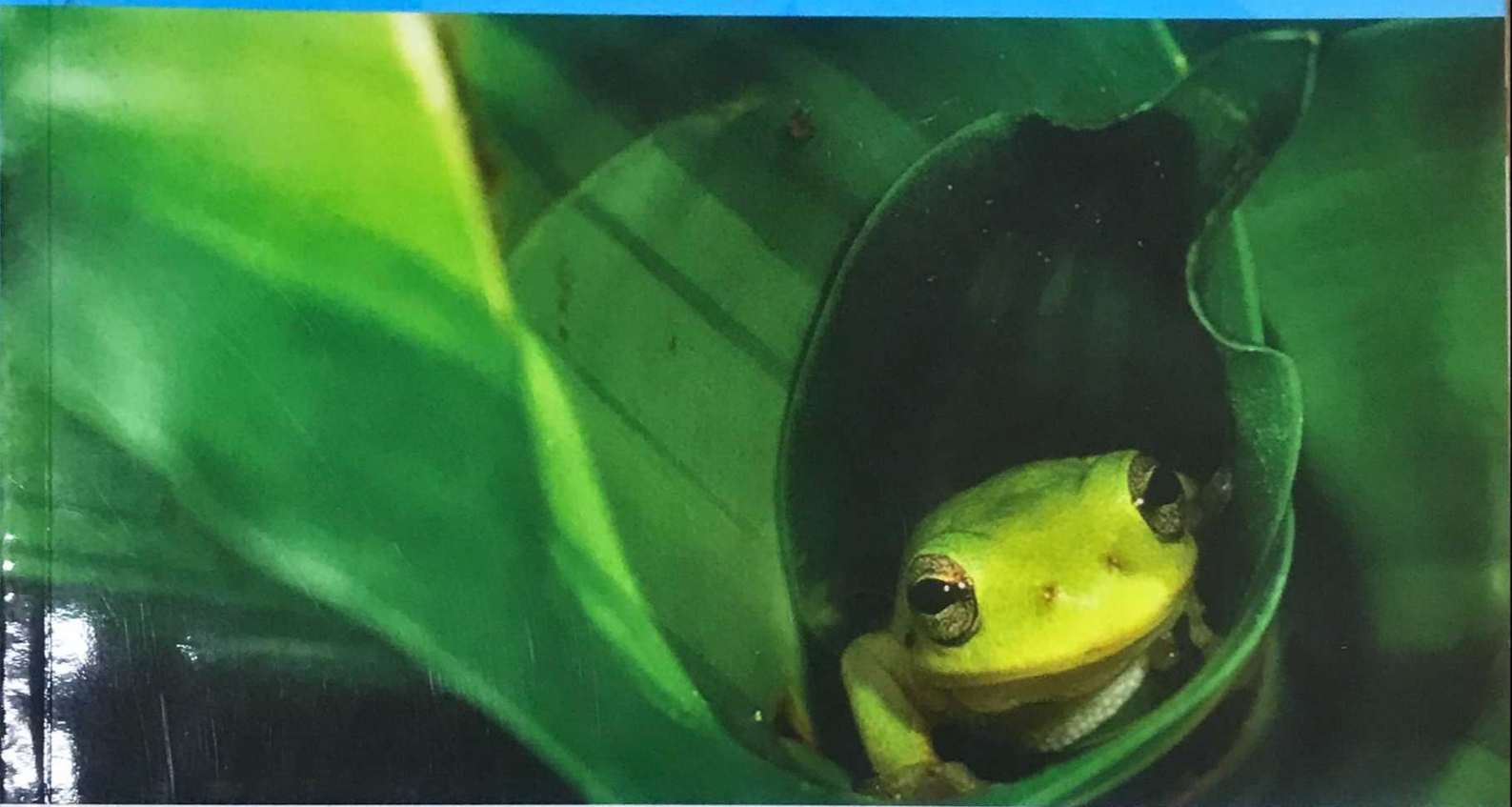


Cengage Learning

Asia Sectional Catalog
2008 - 2009



Earth Sciences and Life Sciences

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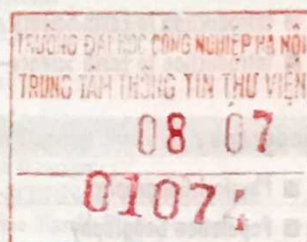
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Earth Sciences





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INTRODUCTION TO EARTH SCIENCE

INTRODUCTION TO EARTH SCIENCE



EARTH SCIENCE AND THE ENVIRONMENT, INTERNATIONAL EDITION

Fourth Edition

GRAHAM R. THOMPSON, University of Montana, and **JON TURK**, Professional Geoscience Writer

688 pages. Paperbound. 8-1/2 x 10-7/8. 4-color. ©2007.
ISBN-10: 0495114022. ISBN-13: 9780495114024.

EARTH SCIENCE AND THE ENVIRONMENT uses the two themes of earth systems and environmental issues to provide a rich overview of all Earth-related disciplines, including geology, meteorology, hydrology, oceanography, and astronomy. Thompson and Turk provide a sense of how Earth functions as a single system composed of interacting subsystems. This commitment to the Earth systems approach is integrated throughout the text and is emphasized graphically in the chapter-ending thematic flow chart, "systems interactions", which illustrates the interconnectivity of the Earth's four spheres (geosphere, atmosphere, hydrosphere, and biosphere).

The text's other main emphasis, environmental issues, is integrated into the text throughout in both the authoritative narrative and stunning multipart visuals that emphasize the beauty of Earth science.

To further enrich the student experience, the new fourth edition is fully integrated, on a concept level and with book-specific interactivities, with the ThomsonNOW™ student tutorial system. Webbased, assessment-driven, and completely flexible, the system offers a personalized learning plan based on a diagnostic

pretest to focus students' attention on the concepts they don't yet understand. This superior teaching package, along with a text by an experienced and dedicated author team, provides students with fun, interactive learning opportunities.

★ KEY FEATURES

- Fully updated to reflect the most recent developments in the field, including coverage of Hurricane Katrina, to reinforce the fact that science is a living process and not a set of stale facts to be memorized.
- Many "Focus On" boxes have been integrated into the narrative, to provide a more cohesive narrative flow and to provide a more relevant experience by consistently fusing process with application.
- This edition is fully integrated, on a concept level and with book-specific interactivities, with the ThomsonNOW™ student tutorial system. Webbased, assessment-driven, and completely flexible, the system offers a personalized learning plan based on a diagnostic pretest to maximize students' study time by focusing their attention where it is needed most.
- The art program has been significantly updated, most significantly to the "systems perspective" concept art, to capture students' attention and imagination.
- The popular "earth systems interactions" flow charts have been redesigned to enhance their usefulness as a review tool.
- The "earth systems interactions" appears at the end of each chapter. This graphic highlights how a given process interacts with other Earth systems, emphasizing the interconnectivity of the Earth's four spheres (geosphere, atmosphere, hydrosphere, biosphere).
- At least one full-page "systems perspective" image, focusing on how earth processes and systems affect the environment, appears in almost every unit of this new edition. Designed to emphasize the integration between the two primary themes of the text (earth systems and the environment), these full-page art pieces will also appeal to the visual learner.
- Thompson and Turk devote a full chapter to climate change, placing modern climate change within the context of the broad ebb and flow of climate change over the 4.6 billion years of Earth history. The authors begin the chapter with a review of past climates throughout geologic deep time and then discuss the warming trend of the past 150 years within this broader context.

■ Special topics are highlighted and further discussed in "focus boxes" throughout the text. In a survey course where many subjects are introduced, it can be refreshing for the student to have an option to read in-depth discussion on topics of interest, and "focus on" boxes range from traditional Earth Science topics to current, environmental case studies.

■ The Thompson/Turk author team is unique in combining dedication to earth science education with extensive field expertise. Most of the locations in the text have been experienced firsthand by at least one of the authors. Gray Thompson is a dedicated teacher, researcher, and author, while Jon Turk is a geosciences writer, a chemist, and an adventurer.

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EARTH SCIENCES

■ Introduction to Earth Science



EARTH SCIENCE TODAY, MEDIA ENHANCED EDITION

BRENDAN MURPHY, St. Francis Xavier University;
and **DAMIAN NANCE**, Ohio University

576 pages. Casebound. 8-1/2 x 11. ©2001.
ISBN-10: 0334384757. ISBN-13: 9780334384753.

Earth Science Today helps you reach your classroom goals. Murphy and Nance recognize the challenge of covering the earth sciences—physical geology, meteorology, astronomy, and oceanography, to name a few—in just one term. So, they've developed a text that helps you create a clear and engaging presentation, while covering traditional topics in comfortable depth. Murphy and Nance emphasize the interplay of the Earth's processes. With this process-oriented approach, they're able to stress the concepts and principles that will stay relevant to students, even after they finish your course.

Whenever your students see "hot" blue text in the review materials, your students will know that they can find more resources at the Brooks/Cole Earth Science Resource Center Web site. There, they'll be able to find the key terms and concepts for each chapter; review additional critical-thinking questions, activities, and more; or do further research with *InfoTrac® College Edition*—the online library.

Media Edition: A significant updating to provide students with up-to-date information and innovative, compelling supplements package. The *Media Edition* features new content and support for every chapter. Bundled for free with *Earth Systems Today* CD/Web site, the text is augmented with new end-of-chapter exercises correlated specifically to the CD-ROM.

★ KEY FEATURES

- Each of the text's parts opens with the large *Process in Action* icon, which reinforces the nature of the interactions of the solid earth, atmosphere, biosphere, and hydrosphere.
- The small *Process in Action* icon, found throughout the chapters, makes students aware that two or more of the Earth's spheres are interacting.
- Visual Summaries offer your students a way to conceptualize all the integration,

movement, and change as described in each of the text's parts.

- The *Living on Earth* feature highlights environmental issues.
- The *Dig In* feature supplies more detailed, quantitative material.
- Each chapter features a number of helpful study aids, including key terms and concepts, review questions focusing on essential material in the chapter, and challenging study questions that require working knowledge of material in previous chapters.
- Additional Web links, new *InfoTrac College Edition* questions and a new suite of exercises and quizzes are also available on the Web site for additional student quizzing and practice. Finally, general updating of content is available on the Web site for currency.

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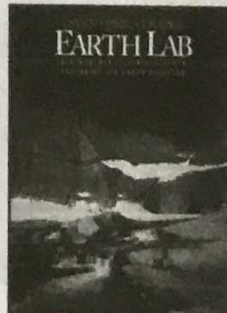
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4. Plate Tectonics: Development of a Theory
5. Plate Tectonics: Plates and Plate Boundaries
6. Mountains and Volcanoes
7. The Earth's Interior
- PART II: THE HYDROSPHERE: THE ORIGIN AND MOTION OF WATER ON OUR PLANET**
8. Ocean Water
9. Circulation of Ocean Water
10. Fresh Water
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15. The Planets
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17. Mineral Resources
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- PART VII: EARTH SCIENCE AND THE ENVIRONMENT**
19. Biogeochemistry: Interaction Between the Earth's Reservoirs
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(Each chapter begins with *Chapter Overview*

and *Introduction* and ends with *Chapter Summary, Key Terms and Concepts, Review Questions, and Study Questions.*)

INTRODUCTION TO EARTH SCIENCE

INTRODUCTION TO EARTH SCIENCE—LAB MANUALS



EARTH LAB: EXPLORING THE EARTH SCIENCES

Second Edition

CLAUDIA OWEN, University of Oregon, **DIANE PIRIE**, and **GRENVILLE DRAPER**, all of Florida International University

432 pages. Paperbound. 8-1/2 x 11. ©2006.
ISBN-10: 0495013285. ISBN-13: 9780495013280.

The Second Edition of *EARTH LAB* offers a variety of hands-on activities—a perfect accompaniment to either a physical geology, environmental geology, or earth science course. Full of engaging activities that help students develop data-gathering and analysis skills, the Second Edition introduces new chapters on glaciation, mass wasting, and natural processes in deserts. Other chapter topics include activities on rock identification that help students look into Earth's history as well as learn about plate tectonics and earthquakes. *EARTH LAB* is distinguished not only by enhanced breadth of coverage, but also by innovative pedagogy and many simple, student-tested experiments. The traditional skills of rock and mineral identification, aerial photo analysis and geologic map interpretation are emphasized through superb graphic illustrations and rich visual content. Unlike activities in other lab manuals where students might only analyze pre-created data sets and maps, students using the Second Edition of *EARTH LAB* will spend more time handling and interpreting samples, or even creating their own models of geological processes. Instructors will find that within chapters, the wide selection of activities provides more than enough options to design their own labs based on their own particular resources and prefer-

ences. Thus, the new edition provides an unparalleled flexible basis for the design of Earth Science and Physical Geology labs.

★ KEY FEATURES

- The second edition includes new activities on active alpine and continental glaciers, along with exercises related to global warming and possible rising sea level.
- Students will learn about desert landforms and fluvial processes in arid lands and study desertification.
- Students will create their own landslides and mudflows in a new hands-on activity on mass wasting.
- Activities involving maps and their applications include a new pace and compass map-making activity that is popular with students.
- The "Earthquakes and Seismology" activity now includes an experiment with liquefaction to help students understand an important seismic hazard.
- Lab 8, "Geologic Time and Geologic History" has been revised, to include modeling of the concept of half life in a dice tossing exercise in which student actually determine the half life of the dice.
- Students will spend more time handling and interpreting samples, or even creating their own models of geological processes.
- For each lab, the wide selection of activities provides instructors with more than enough options to design their own labs based on their own particular resources and preferences. With the help of an extensive visual imagery, in conjunction with helpful and innovative identification mazes, students learn to identify a variety of minerals and rocks. Beyond this students are encouraged to grasp as much as possible about the story told by a rock.
- An activity on El Nino, using colored layers of water, demonstrates oceanic upwelling and highlights the resultant effects on temperature, weather and economics of these regions.
- The book covers traditional skills expected in introductory geology lab books but also includes many simple innovative hands-on activities that enhance learning and get students involved.
- A stream table activity illustrates how a meandering stream causes erosion and deposition and addresses the resultant potential destruction caused by building too close to a river.
- With easily available materials students create a model of an area to develop an understanding of how they can effectively combine data-gathering and analysis to deduce the area's geology.

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