

**Pearson 9th Edition, 0134746244**

# Applications and Investigations in Earth Science, 9th Edition - Instruction Manual

By Edward Tarbuck, Frederick Lutgens, and Dennis Tasa

## 1. INTRODUCTION

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This manual, the 9th Edition of *Applications and Investigations in Earth Science*, is designed to complement introductory Earth Science lab courses. It can be used with Tarbuck and Lutgens' *Earth Science* and *Foundations of Earth Science* textbooks, or as a standalone resource for any Earth science laboratory curriculum. The content aims to minimize the need for extensive faculty instruction, allowing instructors to engage directly with students.

The manual features twenty-four step-by-step exercises that reinforce key concepts across geology, oceanography, meteorology, and astronomy. It includes dynamic illustrations by Dennis Tasa and introduces new content such as a lab on Volcanism and Volcanic Hazards, Mastering™ Geology Project Condor videos, Mobile Field Trips, and MapMaster 2.0 interactive maps to enhance understanding of Earth's processes.

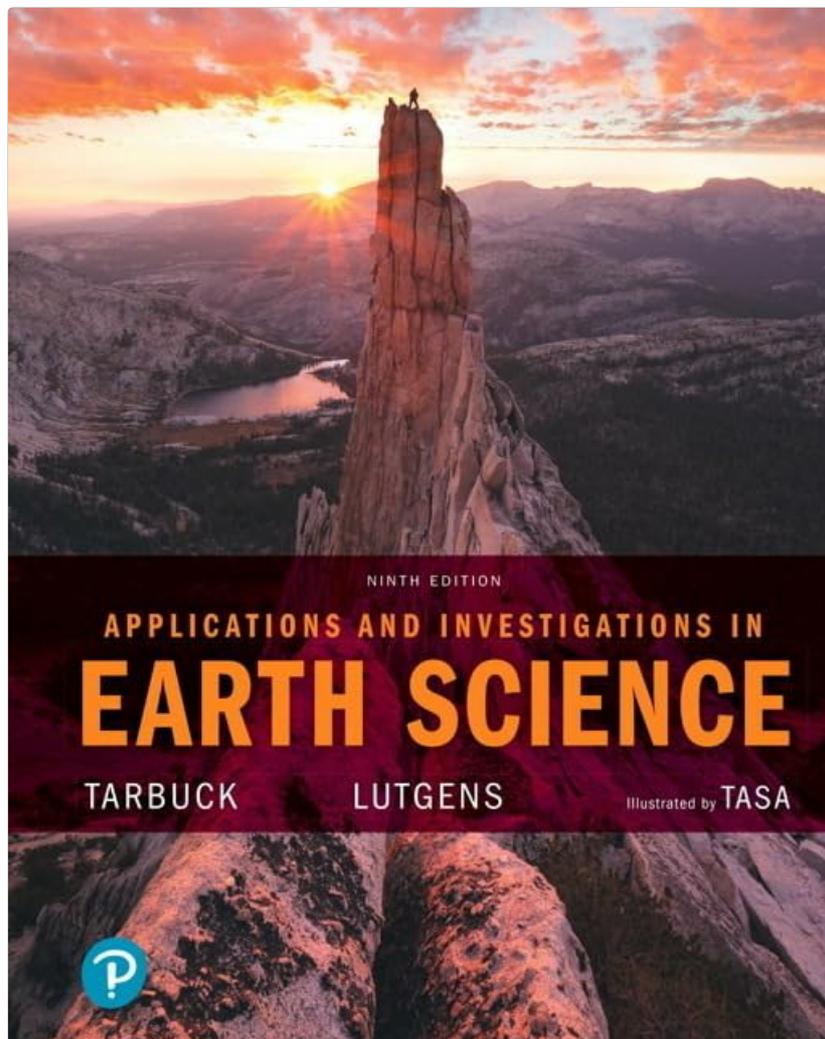


Figure 1.1: Cover of *Applications and Investigations in Earth Science, 9th Edition*. This image displays the front cover of the paperback textbook, featuring a geological landscape with mountains and a body of water under a dynamic sky.

## 2. SETUP AND ACCESS

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This section outlines how to access and prepare your manual for use, including both physical and digital components.

### 2.1 Physical Manual

Upon receiving the paperback manual, inspect all pages to ensure they are present and in correct order. The manual contains 400 pages. Familiarize yourself with the overall structure and the layout of the exercises.

### 2.2 Digital Resources (Mastering Geology & Pearson eText)

Access to digital components like Mastering™ Geology and Pearson eText requires a separate access card or purchase. These are not automatically included with the standalone physical manual.

- **Mastering Geology:** If your course requires Mastering Geology, ensure you have the correct package ISBN or Course ID provided by your instructor. This platform offers interactive tools, videos (e.g., Project Condor), and interactive maps (MapMaster 2.0).
- **Pearson eText:** The Pearson eText provides a digital version of the manual. Access is typically granted via an access code. The eText allows for portable access, including offline use, and features for educators to share notes.

**Important: If you purchased a package including Mastering Geology or Pearson eText, follow the instructions provided with your access card to register and activate your digital resources. If you encounter issues with digital access, refer to the Troubleshooting section or contact Pearson support.**

## 3. OPERATING AND USING THE MANUAL

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This manual is designed for hands-on learning through a series of exercises.

### 3.1 Navigating Exercises

The manual contains twenty-four step-by-step exercises. Each exercise focuses on specific topics within geology, oceanography, meteorology, or astronomy. Read the introduction to each exercise carefully to understand its objectives and required materials.

### 3.2 Engaging with Content

- **Step-by-Step Instructions:** Follow the instructions precisely for each step of an exercise. Record observations and data as directed.
- **Illustrations and Diagrams:** Pay close attention to the dynamic illustrations by Dennis Tasa. These visuals are integral to understanding the concepts and completing the exercises.
- **Questions and Analysis:** Complete all questions and analysis sections within each exercise. These are designed to reinforce learning and assess comprehension.

### 3.3 Utilizing Digital Tools (If Applicable)

If you have access to Mastering Geology or Pearson eText, integrate these tools into your study routine:

- **Project Condor Videos:** Watch these videos within Mastering Geology to gain visual insights into Earth processes.
- **Mobile Field Trips:** Use these resources to explore geological sites virtually, enhancing your understanding of real-world applications.
- **MapMaster 2.0:** Interact with these maps to analyze geographical and geological data.
- **Pearson eText Features:** Use the eText for convenient access, highlighting, note-taking, and reviewing content on various devices.

## 4. MAINTENANCE AND CARE

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Proper care of your manual ensures its longevity and usability.

### 4.1 Physical Manual Care

- **Storage:** Store the manual in a dry place away from direct sunlight and extreme temperatures to prevent damage to pages and binding.
- **Handling:** Handle the book with clean hands. Avoid bending the cover or pages excessively.
- **Writing:** When writing in the manual, especially with ink, allow sufficient drying time to prevent smudging, as some paper types may cause ink to smear. Pencil is often recommended for lab manuals.

### 4.2 Digital Access Maintenance

- **Account Security:** Keep your Pearson account login credentials secure. Do not share your access codes or login information.
- **Software Updates:** Ensure your web browser and any required plugins (if applicable) are up to date for optimal performance of digital platforms.
- **Internet Connection:** A stable internet connection is required for initial access and many features of Mastering Geology and Pearson eText, though offline access may be available for the eText after initial download.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter.

### 5.1 Physical Manual Issues

- **Missing Pages:** If you discover missing or misprinted pages, contact the retailer or Pearson customer service immediately for a replacement. It is advisable to check the manual thoroughly upon receipt.
- **Ink Smudging:** Use a fast-drying pen or pencil when writing in the manual to prevent smudges.

### 5.2 Digital Access Issues

- **Access Code Not Working:** Double-check the code for typos. Ensure it has not been previously used. If issues persist, contact Pearson support.
- **Cannot Open eText on Device:** Some eText versions may have specific device or application requirements. For example, some users have reported needing an Amazon product (like a Kindle Fire) to open certain eTexts if using Apple devices caused errors. Consult Pearson's eText support pages for compatible devices and applications.
- **Videos/Interactive Maps Not Loading:** Ensure you have a stable internet connection. Clear your browser's cache and cookies, or try a different web browser. Check for any required browser plugins or updates.
- **Login Problems:** Verify your username and password. Use the 'Forgot Password' option if necessary.

## 6. SPECIFICATIONS

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## 7. WARRANTY INFORMATION

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## 8. SUPPORT

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For assistance with *Applications and Investigations in Earth Science, 9th Edition*, please refer to the following resources:

- **Pearson Customer Support:** For issues related to physical book defects, digital access codes, or technical problems with Mastering Geology or Pearson eText, visit the Pearson support website. Search for 'Pearson Support' online to find the most current contact information and support portals.
- **Instructor:** For questions regarding the content of the exercises, course requirements, or specific assignments, consult your course instructor.
- **Online Resources:** Check the official Pearson website for this textbook for any supplementary materials, errata, or updates.