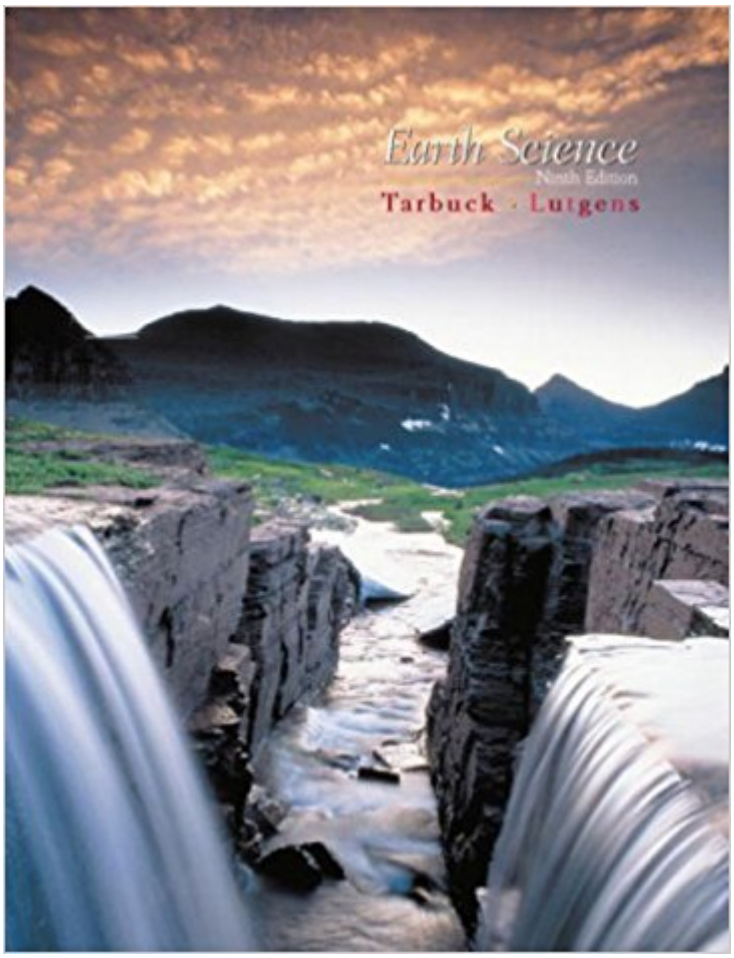
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Earth Science (9th Edition)



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Synopsis

For introductory Earth Science courses found in departments of Geology, Geography, or Atmospheric Sciences for students with little or no exposure to college-level science.Earth Science offers a user-friendly overview of our physical environment with balanced, up-to-date coverage of geology, oceanography, astronomy, and meteorology. The emphasis is on readability, with clear, example-driven explanations refined by over twenty years of instructor and student feedback. The text takes full advantage of the subject's visual appeal. Discussions are reinforced with a superb collection of color photos, along with illustrations by highly respected Earth science illustrator, Dennis Tasa. A tightly integrated media package further extends students' understanding of Earth science.

Book Information

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Customer Reviews

Preface Earth is a very small part of a vast universe, but it is our home. It provides the resources that support our modem society and the ingredients necessary to maintain life. Therefore, a knowledge and understanding of our planet is critical to our social well being and indeed, vital to our survival. In recent years, media reports have made us increasingly aware of our place in the universe and the forces at work in our physical environment. We are also beginning to learn that human interactions with natural systems can upset delicate balances. News stories inform us of new discoveries in the solar system and beyond. Daily reports remind us of the destruction caused by hurricanes, earthquakes, floods, and landslides. We have been made aware of ozone depletion, potential global warming, and growing environmental concerns about the oceans. To comprehend,

prepare for, and solve these and other concerns requires an awareness of how science is done and the scientific principles that influence our planet, its rocks, mountains, atmosphere, and oceans. Earth Science, ninth edition, like its predecessors, is a college-level text designed for an introductory course that often has the same name as this text. It consists of four units that emphasize broad and up-to-date coverage of basic topics and principles in geology, oceanography, meteorology, and astronomy. The book is intended to be a meaningful, non-technical survey for undergraduate students with little background in science. Usually these students are taking an Earth science class to meet a portion of their college's or university's general requirements. In addition to being informative and up-to-date, a major goal of Earth Science is to meet the need of beginning students for a readable and user-friendly text, a book that is a highly usable "tool" for learning basic Earth science principles and concepts. Distinguishing Features Readability The language of this book is straightforward and written to be understood. Clear, readable discussions with a minimum of technical language are the rule. The frequent headings and subheadings help students follow discussions and identify the important ideas presented in each chapter. In the ninth edition, improved readability was achieved by examining chapter organization and flow, and writing in a more personal style. Large portions of the text were substantially rewritten in an effort to make the material more understandable. Illustrations and Photographs The Earth sciences are highly visual. Therefore, photographs and artwork are a very important part of an introductory book. Earth Science, ninth edition, contains dozens of new high-quality photographs that were carefully selected to aid understanding, add realism, and heighten the interest of the reader. The illustrations in each new edition of Earth Science keep getting better and better. In the ninth edition more than 100 pieces of line art were redesigned. The new art illustrates ideas and concepts more clearly and realistically than ever before. The art program was carried out by Dennis Tasa, a gifted artist and respected Earth science illustrator. Focus on Learning New to the ninth edition: To assist student learning, every chapter now concludes with a Chapter Summary. When a chapter has been completed, three useful devices help students review. First, the Chapter Summary recaps all of the major points. Next is a checklist of Key Terms with page references. Learning the language of Earth science helps students learn the material. This is followed by Review Questions that help students examine their knowledge of significant facts and ideas. Each chapter closes with some suggested Web sites for further exploration. Moreover, students are reminded to visit the all-new and greatly improved Web site for Earth Science, ninth edition (prenhall/tarbuck). It contains many excellent opportunities for review and exploration. Earth as a System An important occurrence in modern science has been the realization that Earth is a giant multidimensional system. Our planet consists

of many separate but interacting parts. A change in any one part can produce changes in any or all of the other parts – often in ways that are neither obvious nor immediately apparent. Although it is not possible to study the entire system at once, it is possible to develop an awareness and appreciation for the concept and for many of the system's important interrelationships. Therefore, beginning with an expanded discussion in the Introduction, the theme of "Earth as a system" keeps recurring through all major units of the book. It is a thread that "weaves" through the chapters and helps tie them together. Several new and revised special interest boxes relate to Earth as a system. To remind the reader of this important theme, a small earth is used to mark these boxes. Finally, each chapter concludes with a section on Examining the Earth System. The questions and problems found here are intended to develop an awareness and appreciation for some of the Earth system's many interrelationships. People and the Environment Because knowledge about our planet and how it works is necessary to our survival and well being, the treatment of environmental issues has always been an important part of Earth Science. Such discussions serve to illustrate the relevance and application of Earth science knowledge. With each new edition this focus has been given greater emphasis. This is certainly the case with the ninth edition. The text integrates a great deal of information about the relationship between people and the natural environment and explores applications of the Earth sciences to understanding and solving problems that arise from these interactions. In addition to many basic text discussions, 17 of the text's special interest boxes involve the "People and the Environment" theme and are quickly recognized by a distinctive icon. Maintaining a Focus on Basic Principles and Instructor Flexibility Although many new topical issues are treated in Earth Science, ninth edition, it should be emphasized that the main focus of this new edition remains the same as its predecessors – to foster student understanding of basic Earth science principles. Whereas student use of the text is a primary concern, the book's adaptability to the needs and desires of the instructor is equally important. Realizing the broad diversity of Earth science courses in both content and approach, we have continued to use a relatively nonintegrated format to allow maximum flexibility for the instructor. Each of the four major units stands alone; hence, they can be taught in any order. A unit can be omitted entirely without appreciable loss of continuity, and portions of some chapters may be interchanged or excluded at the instructor's discretion. More About the Ninth Edition In addition to adding chapter summaries, strengthening the "Earth as a System" and "People and the Environment" themes and making substantial changes to the photography and art programs, much more is new to the ninth edition. The ninth edition of Earth Science represents a thorough revision. Every part of the book was examined carefully with the dual goals of keeping topics current and improving the clarity of text discussions. Based on feedback

from reviewers and our students, we believe we have succeeded. Of special interest is a new section on "Marine Life Zones" in Chapter 12 and a new related special interest box (Box 12.2) on "Hydrothermal Vent Communities". Moreover, Chapter 16 includes a substantial new discussion of "El NiÃƒÂ o and Global Weather" and a related new box (Box 16.2), "Tracking El NiÃƒÂ o from Space." Supplements The authors and publisher have been pleased to work with a number of talented people to produce an excellent supplements package. This package includes the traditional supplements that students and professors have come to expect from authors and publishers, as well as some new kinds of supplements that involve electronic media. For the Student GEODe II CD-ROM. A revision of the popular GEODe CD by Dennis Tasa of Tasa Graphic Arts, Inc., Edward J. Tarbuck, and Frederick K. Lutgens. GEODe II is a dynamic program that reinforces key concepts by using animations, tutorials, and interactive exercises. A special GEODe II icon appears throughout the book wherever a text discussion has a corresponding GEODe II activity. A copy of GEODe II has been included with this text. This special offering gives students two valuable products (GEODe II and the textbook) for the price of one. Internet Support: This site, specific to the text, contains numerous review exercises (from which students get immediate feedback), exercises to expand one’s understanding of Earth science, and resources for further exploration. This Web site provides an excellent platform from which to start using the Internet for the study of Earth science. Please visit the site at prenhall/tarbuck Study Guide: Written by experienced educator Kenneth Pinzke, the study guide helps students identify the important points from the text, and then provides them with review exercises, study questions, self-check exercises, and vocabulary review. For the Professor Transparency Set: More than 150 full-color acetates of illustrations from the text are available free of charge to qualified adopters. Slides: More than 200 slides of images taken from the text, many of which were taken by the authors, are also available to qualified adopters. Presentation Manager: This user-friendly navigation software enables professors to custom-build multimedia presentations. Prentice Hall Presentation Manager 3.0 contains several hundred images from the text, as well a~ selected animations from GEODe II. The CD-ROM allows professors to organize material in whatever order they choose; preview resources by chapter; search the digital library by keyword; integrate material from their hard drive, a network, or the Internet; or edit lecture notes and annotate images with an overlay tool. This powerful presentation tool is available at no cost to qualified adopters of the text. The New York Times Themes of the Times—Changing Earth: This unique newspaper-format supplement features recent articles about geology from the pages of the New York Times. This supplement, available at no extra charge from your local Prentice Hall representative, encourages students to make

connections between the classroom and the world around them. Instructor's Manual. Written by Kenneth Pinzke of Belleville Area College, the Instructor's Manual is intended as a resource for both new and experienced instructors. It includes a variety of lecture outlines, additional source materials, teaching tips, advice about how to integrate visual supplements (including the Web-based resources), and various other ideas for the classroom. Test Item File: The Test Item File provides instructors with a wide variety of test questions. PH Custom Test: Based on the powerful testing technology developed by Engineering Software Associates, Inc. (ESA), Prentice Hall Custom Test allows instructors to create and tailor exams to their own needs. With the online testing program, exams can also be administered online and data can then be automatically transferred for evaluation. The comprehensive desk reference guide is included along with online assistance. For the Laboratory Applications and Investigations in Earth Science: Written by Ed Tarbuck, Fred Lutgens, and Ken Pinzke, this full-color laboratory manual contains 22 exercises that provide students with hands-on experiences in geology, oceanography, meteorology, astronomy, and Earth science skills. Acknowledgments Writing a college textbook requires the talents and cooperation of many individuals. Working with Dennis Tasa, who is responsible for all of the outstanding illustrations, is always special for us. We not only value his outstanding artistic talents and imagination, but his friendship as well. We are also grateful to Professor Ken Pinzke at Belleville Area College. In addition to his many helpful suggestions regarding the manuscript, Ken developed the Web site, prepared the chapter summaries, and the instructor's guide. In addition, he revised the student study guide and the laboratory manual that are available to accompany Earth Science. Ken is an important part of our team and a valued friend as well. Special thanks goes to those colleagues who prepared in-depth reviews. Their critical comments and thoughtful input helped guide our work and clearly strengthened the text. We wish to thank: Lasty Best; Palm Beach Community College Ted Chamberlain; Colorado State University Dr. Lynn Chyi; University of Akron Chris Hooker; Waubonsee Community College Kris Huysken; Indiana University NW Arthur C. Lee; Westark Community College Amalie Orme; CSU-Northridge Mark Sutherland; College of Dupage Brooke Towery; Pensacola Junior College Matthew Werhner; Hillsborough Community College In addition we would like to acknowledge the aid of our students. Their comments and criticisms sometimes challenge us to search for a deeper understanding and always help us maintain our focus on readability. We also want to acknowledge the team of professionals at Prentice Hall. Thanks to Editor in Chief Paul Corey. We sincerely appreciate his continuing strong support for excellence and innovation. Thanks also to our editor Dan Kaveney. His strong communication skills and energetic style contributed greatly to the project. The production team, led by Ed Thomas, as

always, has done an outstanding job. They are true professionals with whom we are very fortunate to be associated. Edward J. Tarbuck Frederick K. Lutgens

Key Benefit: This book offers a user-friendly overview of our physical environment with balanced, up-to-date coverage of geology, oceanography, astronomy, and meteorology. The emphasis is on readability, with clear, example-driven explanations refined by over twenty years of feedback. It takes full advantage of the subject's visual appeal. Discussions are reinforced with a superb collection of color photos along with newly redrafted illustrations by highly respected earth science illustrator, Dennis Tasa. Key Topics: Throughout the text, a stronger emphasis is placed on the themes of Earth as a system and the interactions between people and the natural environment. A designated home page provides on-line review exercises, opportunities for further research, follow-up on items mentioned in the book, and links to a wealth of interesting sites related to the chapter material. The GEODe II CD-ROM will be packaged FREE with each book, and icons within the text direct users to explore related material on the CD-ROM. Plus, content has been significantly updated throughout the Ninth Edition. Market: An ideal book for those interested in physical geology, but with little background in this area. --This text refers to an out of print or unavailable edition of this title.

Renting this book for class and have had it for a little over 2 weeks now. This book is very well written and very easy to read. Each chapter is as interesting as the last. The reason why I took off a star is because when I received the book the cover pages were bent and the first page in the book had a stain on it that goes through some pages (from the previous renters I'm guessing). Overall it's a good book to read.

I have an issue with most science books. They squeeze so much information into them that you barely can fill your head with all of the knowledge. Science texts are also too wordy. They use big words when a small word will so the same job. I can't stand that. This book has a lot of information, but the words used are simpler. I do not need a dictionary and thesaurus to follow this book.

loose leaf so make sure you have a good sized binder to put it in, quality paper though

Does NOT come with E-Text Access Code as advertised. That is an extra $75.00 - $100.00.

The condition of the book is great. The spine is a happy medium between loose and tight, making it an easy page turner. The language is very easy to read and understand. The price of the book makes it an easy decision to rent it. So far it has met and exceeded my expectations.

The first book we had to return because of heavy water damage. This one is ok.

Needed for school

I rented this book for a geology class and I'm really enjoying it so far. The book is easy to read and is broken down into coherent sections with a couple of questions at the end of each portion that help me make sure I retained the information. As someone who struggles through science classes, I appreciate the way this textbook was written.

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