

Essentials Of Geology 11th Edition

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The Geology Book - Dr. John D. Morris 2000-10-01

Rocks firmly anchored to the ground and rocks floating through space fascinate us. Jewelry, houses, and roads are just some of the ways we use what has been made from geologic processes to advance civilization. Whether scrambling over a rocky beach, or gazing at spectacular meteor showers, we can't get enough of geology! The Geology Book will teach you:

What really carved the Grand Canyon. How thick the Earth's crust is. The varied features of the Earth's surface - from plains to peaks. How sedimentary deposition occurs through water, wind, and ice. Effects of erosion. Ways in which sediments become sedimentary rock. Fossilization and the age of the dinosaurs. The powerful effects of volcanic activity. Continental drift theory. Radioisotope and carbon dating. Geologic

processes of the past. Our planet is a most suitable home. Its practical benefits are also enhanced by the sheer beauty of rolling hills, solitary plains, churning seas and rivers, and majestic mountains - all set in place by processes that are relevant to today's entire population of this spinning rock we call home.

California Geology - Deborah Reid Harden 1998

Introducing basic principles, this book presents a picture of Californian geology. With California plate tectonics as a central theme, it contains examples of catastrophic natural disasters, excerpts from Californian history and mining methods, and the societal impacts of geologic processes.

Essentials of Geology - Frederick K. Lutgens
2011-01-06

With the renowned readability of the Lutgens/Tarbuck/Tasa team, the Eleventh Edition of *Essentials of Geology* continues to enhance both the approach and the visual presentation that has made this

text a best-seller. This revision incorporates a new active learning approach throughout each chapter which offers the students a structured learning path and provides a reliable, consistent framework for mastering the chapter concepts. It also includes new additions to the visual program and current issues, such as climate change, are thoroughly updated. This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books à la Carte also offer a great value--this format costs 35% less than a new textbook.

The Earth Through Time - Harold L. Levin 1994

Living with Earth - Travis Hudson 2016-09-17

For many students with no science background, environmental geology may be one of the only science courses they ever take. *Living With Earth: An Introduction to Environmental Geology* is ideal for those students, fostering a better understanding of how

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they interact with Earth and how their actions can affect Earth's environmental health. The informal, reader-friendly presentation is organized around a few unifying perspectives: how the various Earth systems interact with one another; how Earth affects people (creating hazards but also providing essential resources); and how people affect Earth. Greater emphasis is placed on environment and sustainability than on geology, unlike other texts on the subject. Essential scientific foundations are presented - but the ultimate goal is to connect students proactively to their role as stakeholders in Earth's future.

Atmosphere - Greg Carbone
1997-08-01

Designed to accompany Lutgens and Tarbuck's *The Atmosphere* (7th ed), this laboratory manual features exercises that help students review theoretical concepts through problem solving, simulation and guided thinking.

Practical Handbook of Earth Science - Jane H. Hodgkinson

2017-09-11

This self-contained handbook provides a carefully researched, compact source of key earth science information and data, logically sorted by subject matter, and then cross-referenced. Appealing to both experts and non-experts alike, the book presents earth science and environmental science as closely intertwined. It includes tables of the global distributions of fossil fuels, contrasted by tables of the distribution of non-fossil energy sources. Concise explanations cover the subject matters of geology, geophysics, oceans, atmosphere with attention to environmental implications and resources.

Essentials of Oceanography - Alan P. Trujillo 2010

Now updated to be more student-oriented, this textbook offers an insightful, ecologically sensitive presentation of the relationship of scientific principles to ocean phenomena.

Laboratory Manual for Introductory Geology - Allan Ludman 2018-11

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Dynamic labs emphasize real-world applications

Medical Geology - Olle Selinus 2010-06-27

Medical Geology is a rapidly growing field concerned with the relationship between natural geological factors and human and animal health, as well as with improving our understanding of the influence of environmental factors on the geographical distribution of health problems. This book brings together the work of geoscientists and medical/public health researchers, which addresses health problems caused, or exacerbated by geological materials (rocks, minerals, atmospheric dust and water) and processes (including volcanic eruptions and earthquakes. Among the environmental health problems discussed in this book are: exposure to toxic levels of trace essential and non-essential elements such as arsenic and mercury; trace element deficiencies; exposure to natural dusts and to radioactivity; naturally

occurring organic compounds in drinking water; volcanic emissions, etc. The text also deals with the many health benefits of geologic materials and processes. This wide-ranging volume covers issues in medical geology all over the world with each author covering their respective region. It provides examples from different continents as well as a state-of-the-art review of the latest developments in the discipline. The authors are all recognized geoscientific and medical experts working in the field. The book is written for a wide variety of specialists from geologists, geochemists, pathologists and medical doctors to veterinarians and biologists.

Mass Communication - Ralph E. Hanson 2016-10-20

Transform your students into smart, savvy consumers of the media. *Mass Communication: Living in a Media World* (Ralph E. Hanson) provides students with comprehensive yet concise coverage of all aspects of mass media, along with insightful analysis, robust

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pedagogy, and fun, conversational writing. In every chapter of this bestselling text, students will explore the latest developments and current events that are rapidly changing the media landscape. This newly revised Sixth Edition is packed with contemporary examples, engaging infographics, and compelling stories about the ways mass media shape our lives. From start to finish, students will learn the media literacy principles and critical thinking skills they need to become savvy media consumers.

Earth Science, Books a la Carte Edition - Edward J.

Tarbuck 2014-01-13

NOTE: This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value for your students-this format costs 35% less than a new textbook. Before you purchase, check with your instructor or review your course syllabus to ensure

that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products.

xxxxxxxxxxxxxxxxxxxx Ideal for undergraduates with little or no science background, Earth Science provides a student-friendly overview of our physical environment that offers balanced, up-to-date coverage of geology, oceanography, astronomy, and meteorology. The authors' texts have always been recognized for their readability, currency, dynamic art program, delivery of basic principles and instructor flexibility. The Fourteenth Edition incorporates a new active learning approach, a fully updated and mobile visual program, and MasteringGeology(tm)--the most complete, easy-to-use,

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engaging tutorial and assessment tool available.

Essentials of Medical Geology - Olle Selinus 2013-03-30

Essentials of Medical Geology reviews the essential concepts and practical tools required to tackle environmental and public health problems. It is organized into four main sections. The first section deals with the fundamentals of environmental biology, the natural and anthropogenic sources of health elements that impact health and illustrate key biogeochemical transformations. The second section looks at the geological processes influencing human exposure to specific elements, such as radon, arsenic, fluorine, selenium and iodine. The third section presents the concepts and techniques of pathology, toxicology and epidemiology that underpin investigations into the human health effects of exposure to naturally occurring elements. The last section provides a toolbox of analytical approaches to environmental research and medical geology

investigations. *Essentials of Medical Geology* was first published in 2005 and has since won three prestigious rewards. The book has been recognized as a key book in both medical and geology fields and is widely used as textbook and reference book in these fields. For this revised edition, editors and authors have updated the content that evolved a lot during 2005 and added two new chapters, on public health, and agriculture and health. This updated volume can now continue to be used as a textbook and reference book for all who are interested in this important topic and its impacts the health and wellbeing of many millions of people all over the world. · Addresses key topics at the intersection of environmental science and human health · Developed by 60 international experts from 20 countries and edited by professionals from the International Medical Geology Association (IMGA) · Written in non-technical language for a broad spectrum of readers, ranging from

students and professional researchers to policymakers and the general public · Includes color illustrations throughout, references for further investigation and other aids to the reader

My Book of Rocks and Minerals - Devin Dennie
2017-07-11

A stunning visual reference book for little geologists who love to find fascinating rocks all around them. Identify colorful gemstones, sparkly crystals, the toughest rocks, and ancient fossils. Packed with fun facts, information, and extensive photos all about the rocks and minerals that make up the world around us. Interactive learning that engages young scholarly minds. Learn about 64 different types of rocks and minerals, how to tell the difference between them and where to find them. Dig into all the interesting geological materials from deep space to the deepest caves. You'll even discover glow in the dark minerals and living gems! Find out about the stuff our world is

made of, and how rocks and minerals form over time. This captivating book introduces children to hands-on science with fun activities like starting your own impressive rock collection and how to stay safe on your rock finding missions. Written for kids aged 6 to 9 with bite-sized information and explanations. The easy-to-understand language gives them a rock-solid foundation for science subjects. The geology book includes the phonetic pronunciation of the rock and mineral names so your little one will sound like a rock expert in no time. Rockin' It With Stones And Minerals - Stunning high-quality photographs. - Inspiring activities for little Earth scientists. - Over 64 types of rocks, their properties, and how they are formed.

Fundamentals of Geomorphology - Richard John Huggett
2011-03-15

This extensively revised, restructured, and updated edition continues to present an engaging and comprehensive introduction to the subject,

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exploring the world's landforms from a broad systems perspective. It covers the basics of Earth surface forms and processes, while reflecting on the latest developments in the field. Fundamentals of Geomorphology begins with a consideration of the nature of geomorphology, process and form, history, and geomorphic systems, and moves on to discuss: structure: structural landforms associated with plate tectonics and those associated with volcanoes, impact craters, and folds, faults, and joints process and form: landforms resulting from, or influenced by, the exogenic agencies of weathering, running water, flowing ice and meltwater, ground ice and frost, the wind, and the sea; landforms developed on limestone; and landscape evolution, a discussion of ancient landforms, including palaeosurfaces, stagnant landscape features, and evolutionary aspects of landscape change. This third edition has been fully updated

to include a clearer initial explanation of the nature of geomorphology, of land surface process and form, and of land-surface change over different timescales. The text has been restructured to incorporate information on geomorphic materials and processes at more suitable points in the book. Finally, historical geomorphology has been integrated throughout the text to reflect the importance of history in all aspects of geomorphology. Fundamentals of Geomorphology provides a stimulating and innovative perspective on the key topics and debates within the field of geomorphology. Written in an accessible and lively manner, it includes guides to further reading, chapter summaries, and an extensive glossary of key terms. The book is also illustrated throughout with over 200 informative diagrams and attractive photographs, all in colour.

Essentials of Landscape Ecology - Kimberly A. With
2019-07-01

Human activity during the

Anthropocene has transformed landscapes worldwide on a scale that rivals or exceeds even the largest of natural forces. Landscape ecology has emerged as a science to investigate the interactions between natural and anthropogenic landscapes and ecological processes across a wide range of scales and systems: from the effects of habitat or resource distributions on the individual movements, gene flow, and population dynamics of plants and animals; to the human alteration of landscapes affecting the structure of biological communities and the functioning of entire ecosystems; to the sustainable management of natural resources and the ecosystem goods and services upon which society depends. This novel and comprehensive text presents the principles, theory, methods, and applications of landscape ecology in an engaging and accessible format that is supplemented by numerous examples and case studies from a variety of

systems, including freshwater and marine "scapes".

Discovering Life Skills

Student Edition - McGraw-

Hill Education 2008-12-09

Glencoe's Discovering Life

Skills puts students on the path to discovery and excellence!

Laboratory Manual for

Introductory Geology - Bradley

Deline 2016-01-05

Developed by three experts to coincide with geology lab kits,

this laboratory manual

provides a clear and cohesive

introduction to the field of

geology. Introductory Geology

is designed to ease new

students into the often complex

topics of physical geology and

the study of our planet and its

makeup. This text introduces

readers to the various uses of

the scientific method in

geological terms. Readers will

encounter a comprehensive yet

straightforward style and flow

as they journey through this

text. They will understand the

various spheres of geology and

begin to master geological

outcomes which derive from a

growing knowledge of the tools

and subjects which this text

covers in great detail.

**Essentials of Geology +
Masteringgeology** - Frederick
K. Lutgens 2012-05-08

Books a la Carte are unbound, three-hole-punch versions of the textbook. This lower cost option is easy to transport and comes with same access code or media that would be packaged with the bound book. With the renowned readability of the Lutgens/Tarbuck/Tasa team, the Eleventh Edition of Essentials of Geology continues to enhance both the approach and the visual presentation that have made this text a best-seller. This revision incorporates a new active learning approach throughout each chapter, which offers students a structured learning path and provides a reliable, consistent framework for mastering the chapter concepts. It also includes new additions to the visual program and current issues, such as climate change, are thoroughly updated. This Package Contains: Essentials of Geology, Eleventh Edition (a la Carte edition) with

MasteringGeology(tm) Student
Access Kit

Introduction to Probability -
Charles Miller Grinstead
2012-10-30

This text is designed for an introductory probability course at the university level for sophomores, juniors, and seniors in mathematics, physical and social sciences, engineering, and computer science. It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject.

**Foundations of Earth
Science** - Frederick K. Lutgens
2012-05-03

This brief, paperback version of the best-selling Earth Science by Lutgens and Tarbuck is designed for introductory courses in Earth science. The text's highly visual, non-technical survey emphasizes broad, up-to-date coverage of basic topics and principles in geology, oceanography, meteorology, and astronomy. A flexible design lends itself to the diversity of Earth science courses in both content and approach. As in previous

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editions, the main focus is to foster student understanding of basic Earth science principles. Used by over 1.5 million science students, the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. This is the product access code card for MasteringX and does not include the actual bound book. Package contains:

MasteringGeology standalone access card

Environmental Chemistry - Stanley E. Manahan 1972

PHYSICAL GEOLOGY. - DIANE. CARLSON 2019

Essentials of Geology - Frederick K. Lutgens 2017-01-02

For introductory physical geology courses. Using Dynamic Media to Bring Geology to Life From the renowned Lutgens/Tarback/Tasa team, the 13th Edition of Essentials of Geology continues to elevate the text's readability,

illustrations, and focus on basic principles. This revision incorporates a structured learning path and reliable, consistent framework for mastering the chapter concepts. With a fully integrated mobile media program that includes new Mobile Field Trip and Project Condor quadcopter videos as well as new animations and videos, this edition provides a unique, interactive, and engaging learning experience for readers. Also Available with MasteringGeology(tm) MasteringGeology is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced tutorials provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. Note: You are purchasing a standalone product; MasteringGeology does not come packaged with this content. Students, if

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Fundamentals of Data Visualization - Claus O. Wilke
2019-03-18

Effective visualization is the best way to communicate information from the increasingly large and complex datasets in the natural and social sciences. But with the increasing power of visualization software today, scientists, engineers, and

business analysts often have to navigate a bewildering array of visualization choices and options. This practical book takes you through many commonly encountered visualization problems, and it provides guidelines on how to turn large datasets into clear and compelling figures. What visualization type is best for the story you want to tell? How do you make informative figures that are visually pleasing? Author Claus O.

Wilke teaches you the elements most critical to successful data visualization. Explore the basic concepts of color as a tool to highlight, distinguish, or represent a value Understand the importance of redundant coding to ensure you provide key information in multiple ways Use the book's visualizations directory, a graphical guide to commonly used types of data visualizations Get extensive examples of good and bad figures Learn how to use figures in a document or report and how employ them effectively to tell a compelling

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Earth Science - Edward J. Tarbuck 2010-12-31

Ideal for undergraduates with little or no science background, *Earth Science* is a student-friendly overview of our physical environment that offers balanced, up-to-date coverage of geology, oceanography, astronomy, and meteorology. The authors focus on readability, with clear, example-driven explanations of concepts and events. The Thirteenth Edition incorporates a new active learning approach and a fully updated visual program. This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books à la Carte also offer a great value--this format costs significantly less than a new textbook.

Introduction to Environmental Geology -

Edward A. Keller 2012
This text focuses on helping non-science majors develop an understanding of how geology and humanity interact. Ed Keller—the author who first

defined the environmental geology curriculum—focuses on five fundamental concepts of environmental geology: Human Population Growth, Sustainability, Earth as a System, Hazardous Earth Processes, and Scientific Knowledge and Values. These concepts are introduced at the outset of the text, integrated throughout the text, and revisited at the end of each chapter. The Fifth Edition emphasizes currency, which is essential to this dynamic subject, and strengthens Keller's hallmark “Fundamental Concepts of Environmental Geology,” unifying the text's diverse topics while applying the concepts to real-world examples.

Laboratory Manual in Physical Geology - American Geological Institute 2014-01-15

For Introductory Geology courses This user-friendly, best-selling lab manual examines the basic processes of geology and their applications to everyday life. Featuring contributions from

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over 170 highly regarded geologists and geoscience educators, along with an exceptional illustration program by Dennis Tasa, Laboratory Manual in Physical Geology, Tenth Edition offers an inquiry and activities-based approach that builds skills and gives students a more complete learning experience in the lab. The text is available with MasteringGeology(tm); the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. Note: You are purchasing a standalone product; Mastering does not come packaged with this content. If you would like to purchase both the physical text and Mastering search for ISBN-10:

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9780321944528. That package includes ISBN-10:
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Essentials of Igneous and

Metamorphic Petrology - B. Ronald Frost 2019-10-10

A concise introduction to the mineralogy and petrology of igneous and metamorphic rocks for all Earth Science students.

Essentials of Physical

Geology - Reed Wicander 2009 ESSENTIALS OF GEOLOGY, Fifth Edition, is a shorter, "less is more" version of Wicander and Monroe's PHYSICAL GEOLOGY text. In the same tradition, the authors present the material in a clear, consistent voice, appropriately focusing on the core concepts of physical geology, with an emphasis on plate tectonics and the dynamic nature of Earth. The engaging examples and images throughout the text enhance your understanding and appreciation of physical geology.

Essentials of

Paleomagnetism - Lisa Tauxe 2010-03-19

"This book by Lisa Tauxe and others is a marvelous tool for education and research in Paleomagnetism. Many students in the U.S. and

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around the world will welcome this publication, which was previously only available via the Internet. Professor Tauxe has performed a service for teaching and research that is utterly unique."—Neil D.

Opdyke, University of Florida
Essentials of Oceanography Plus

MasteringOceanography with EText -- Access Card Package - Alan P. Trujillo

2016-01-04

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may be previously redeemed. Check with the seller before completing your purchase. For courses in Oceanography. This package includes MasteringOceanography(tm) Oceanography: The Geological, Chemical, Biological, and Physical Essentials of Oceanography guides readers through the complexities of what lies beneath the ocean. With an interdisciplinary approach and accessible writing style, the text is engaging for all readers. The Twelfth Edition discusses the ocean's biological, chemical, geological, and physical components for an in-depth understanding of this vast and elaborate topic. Complex concepts are made engaging with extensively revised art and interactive study aids that keep readers interested and excited about the material. Personalize learning with MasteringOceanography MasteringOceanography from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging

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readers before, during, and after class with powerful content. Instructors ensure readers arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics. Readers can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess reader understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each reader and making learning more personal than ever-- before, during, and after class. 0134113047 / 9780134113043 Essentials of Oceanography Plus MasteringOceanography with eText -- Access Card Package, 12/e Package consists of: 0134298063 /

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MasteringOceanography with Pearson eText - ValuePack Access Card -- for Essentials of Oceanography 0134073541 / 9780134073545 Essentials of Oceanography

Geotours Workbook - M. Scott Wilkerson 2011-12-22

This new stand-alone edition of Geotours Workbook contains nineteen active-learning tours that take students on virtual field trips to see outstanding examples of geology around the world.

Physical Geology - Steven Earle 2019

"Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The

book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"-- BCcampus website.

The Geology Companion - Gary Prost 2017-12-12

This practical guidebook provides a basic grounding in the principles of geology and explains how to apply them. Using this book, readers will be able to figure out whether they are standing on an ancient seafloor, coal swamp, or sand dune. They will be able to determine the geologic hazards in their neighborhood, where to look for fossils and minerals, or where best to drill a water well. In plain English, *The Geology Companion* sheds light on the processes that shape the earth and how geology affects people in their daily lives.

Foundations of Structural Geology - R. Graham Park 1997

Since the first edition was published in 1983, this highly-regarded introductory textbook has been used by many generations of students

worldwide. It is specifically tailored to the requirements of first or second year geology undergraduates. The third edition has been extensively revised and updated to include many new sections and over 50 new or redrawn illustrations. There are now over 220 illustrations, many incorporating a second colour to highlight essential features. The format has been changed to enhance the visual attractiveness of the book. The tripartite organization of the first and second editions has been modified by combining the purely descriptive or factual aspects of fault and fold structure in the earlier chapters with a simple treatment of mechanisms, leaving the more geometrically complex treatment until after the relevant sections on stress and strain, as before. Some subjects are introduced for the first time, e.g. inversion and orogen collapse, and others have been extensively modified, e.g. the chapter on gravity controlled structures now emphasises modern work

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on salt tectonics. The last third of the book is devoted to the wider context of geological structures and how they relate to plate tectonics. The final two chapters have been considerably expanded and give examples of various types of geological structures in their plate tectonic settings in both modern and ancient orogenic belts.

Essentials of Geology - Stephen Marshak 2012-10-06

"The topics covered in this book have been arranged so that students can build their knowledge of geology on a foundation of overarching principles. Thus, the book starts by considering how the Earth formed, and how it is structured, overall, from its surface to its center. With this basic background, students can delve into plate tectonics, the grand unifying theory of geology. Plate tectonics appears early in the book, so that students can use the theory as a foundation from which they can interpret and link ideas presented in subsequent chapters.

Knowledge of plate tectonics, for example, helps students understand the suite of chapters on minerals, rocks, and the rock cycle. Knowledge of plate tectonics and rocks together, in turn, provides a basis for studying volcanoes, earthquakes, and mountains. And with this background, students are prepared to see how the map of the Earth has changed through the vast expanse of geologic time, and how energy and mineral resources have developed. The book's final chapters address processes and problems occurring at or near the Earth's surface, from the unstable slopes of hills, down the course of rivers, to the shores of the sea and beyond. This section concludes with a topic of growing concern in society-- global change, particularly climate change"--Provided by publisher.

Essentials of Geology - Stephen Marshak 2019-01-16

A hands-on, visual learning experience for physical geology

Gold Ore Processing - Mike D. Adams 2016-05-03

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Gold Ore Processing: Project Development and Operations, Second Edition, brings together all the technical aspects relevant to modern gold ore processing, offering a practical perspective that is vital to the successful and responsible development, operation, and closure of any gold ore processing operation. This completely updated edition features coverage of established, newly implemented, and emerging technologies; updated case studies; and additional topics, including automated mineralogy and geometallurgy, cyanide code compliance, recovery of gold from e-waste, handling of gaseous emissions, mercury and arsenic, emerging non-cyanide leaching systems, hydro re-mining, water management, solid-liquid separation, and treatment of challenging ores such as double refractory carbonaceous sulfides. Outlining best practices in gold processing from a variety of perspectives, Gold Ore Processing: Project

Development and Operations is a must-have reference for anyone working in the gold industry, including metallurgists, geologists, chemists, mining engineers, and many others. Includes several new chapters presenting established, newly implemented, and emerging technologies in gold ore processing. Covers all aspects of gold ore processing, from feasibility and development stages through environmentally responsible operations, to the rehabilitation stage. Offers a mineralogy-based approach to gold ore process flowsheet development that has application to multiple ore types.

Earth - Edward J. Tarbuck
2005

This text has a strong focus on readability and illustrations. It offers a non-technical survey for learning basic principles concepts. This revision introduces plate tectonics earlier, to reflect the unifying role that theory plays in understanding physical geology.