

Evolution Of The Earth 8th Edition

Donald R. Prothero's *Evolution* is an entertaining and rigorous history of the transitional forms and series found in the fossil record. Its engaging narrative of scientific discovery and well-grounded analysis has led to the book's widespread adoption in courses that teach the nature and value of fossil evidence for evolution. *Evolution* tackles systematics and cladistics, rock dating, neo-Darwinism, and macroevolution. It includes extensive coverage of the primordial soup, invertebrate transitions, the development of the backbone, the reign of the dinosaurs, and the transformation from early hominid to modern human. The book also details the many alleged "missing links" in the fossil record, including some of the most recent discoveries that flesh out the fossil timeline and the evolutionary process. In this second edition, Prothero describes new transitional fossils from various periods, vividly depicting such bizarre creatures as the *Odontochelys*, or the "turtle on the half shell"; fossil snakes with legs; and the "Frogamander," a new example of amphibian transition. Prothero's discussion of intelligent design arguments includes more historical examples and careful examination of the "experiments" and observations that are exploited by creationists seeking to undermine sound science education. With new perspectives,

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Prothero reframes creationism as a case study in denialism and pseudoscience rather than a field with its own intellectual dynamism. The first edition was hailed as an exemplary exploration of the fossil evidence for evolution, and this second edition will be welcome in the libraries of scholars, teachers, and general readers who stand up for sound science in this post-truth era.

Every rock is a tangible trace of the earth's past. *The Story of the Earth in 25 Rocks* tells the fascinating stories behind the discoveries that shook the foundations of geology. In twenty-five chapters—each about a particular rock, outcrop, or geologic phenomenon—Donald R. Prothero recounts the scientific detective work that shaped our understanding of geology, from the unearthing of exemplary specimens to tectonic shifts in how we view the inner workings of our planet. Prothero follows in the footsteps of the scientists who asked—and answered—geology's biggest questions: How do we know how old the earth is? What happened to the supercontinent Pangea? How did ocean rocks end up at the top of Mount Everest? What can we learn about our planet from meteorites and moon rocks? He answers these questions through expertly chosen case studies, such as Pliny the Younger's firsthand account of the eruption of Vesuvius; the granite outcrops that led a Scottish scientist to theorize that the landscapes he

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witnessed were far older than Noah's Flood; the salt and gypsum deposits under the Mediterranean Sea that indicate that it was once a desert; and how trying to date the age of meteorites revealed the dangers of lead poisoning. Each of these breakthroughs filled in a piece of the greater puzzle that is the earth, with scientific discoveries dovetailing with each other to offer an increasingly coherent image of the geologic past. Summarizing a wealth of information in an entertaining, approachable style, *The Story of the Earth in 25 Rocks* is essential reading for the armchair geologist, the rock hound, and all who are curious about the earth beneath their feet.

From the New York Times—bestselling author of *Science in the Soul*. “If any recent writing about science is poetic, it is this” (*The Wall Street Journal*). Did Sir Isaac Newton “unweave the rainbow” by reducing it to its prismatic colors, as John Keats contended? Did he, in other words, diminish beauty? Far from it, says acclaimed scientist Richard Dawkins; Newton's unweaving is the key too much of modern astronomy and to the breathtaking poetry of modern cosmology. Mysteries don't lose their poetry because they are solved: the solution often is more beautiful than the puzzle, uncovering deeper mysteries. With the wit, insight, and spellbinding prose that have made him a bestselling author, Dawkins takes up the most important and compelling

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topics in modern science, from astronomy and genetics to language and virtual reality, combining them in a landmark statement of the human appetite for wonder. This is the book Dawkins was meant to write: A brilliant assessment of what science is (and isn't), a tribute to science not because it is useful but because it is uplifting. "A love letter to science, an attempt to counter the perception that science is cold and devoid of aesthetic sensibility . . . Rich with metaphor, passionate arguments, wry humor, colorful examples, and unexpected connections, Dawkins' prose can be mesmerizing." —San Francisco Chronicle "Brilliance and wit." —The New Yorker

This collection contains: History of Geological Thought course materials, Sandstone petrology files and lecture notes, papers, publications on Charles Lyell, committee and professional files, and History of Geology papers.

THE CHANGING EARTH, a leader in the Introductory Geology course, is the only text specifically written for the combined physical and historical geology course. The Fourth Edition's content is based on the best-selling texts PHYSICAL GEOLOGY: EXPLORING THE EARTH and HISTORICAL GEOLOGY: EVOLUTION OF EARTH AND LIFE THROUGH TIME, both written by James Monroe and Reed Wicander. Briefer than the previous edition and maintaining a consistent and

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clear writing style throughout, the text provides a balanced coverage of physical and historical geology with engaging, real-life examples that draw students into the material. Examples in the Fourth Edition include new two-page art spreads, new paleogeographic maps, and Geology in Unexpected Places—a favorite feature from PHYSICAL GEOLOGY: EXPLORING THE EARTH, Fifth Edition. Known for its competitive and robust ancillary package, the Fourth Edition now features GeologyNow, the first assessment-centered student tutorial technology developed for the Geology market. The seamless integration of GeologyNow with chapter concepts emphasizes the connections between the content and students' own lives, through visual 3-D animations and chapter quizzes, helping students develop a greater appreciation for geology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, Teaching About Evolution and the Nature of Science provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and

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similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into

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focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

Comprehensive yet succinct, Wicander/Monroe's *Geology: Earth in Perspective*, 3rd edition, delivers a complete overview of introductory geology in an engaging, student-friendly format. Completely up to date, it includes recent examples of natural disasters, new information on the 2018 eruption of Mount Kilauea, fresh insight on paleoseismology, new details on Hurricane Sandy and Hurricane Harvey, and updated dating techniques that more accurately identify historic climate change periods. GEO-FOCUS boxes in every chapter spotlight headline-generating issues like fracking, while economic and environmental geology topics are integrated throughout. In addition, photos vividly illustrate geologic processes through striking images from recent geologic events. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The age-old question of how our home planet and its satellite originated has in recent times undergone a minor revolution. The emergence of the "giant impact theory" as the most successful model for the origin of the Moon has been difficult to reconcile with some aspects of the Earth, and the development of an

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integrated model for the origin of the Earth-Moon system has been difficult for this reason. However, recent technical advances in experimental and isotopic work, together with intensified interest in the modeling of planetary dynamics, have produced a wealth of new results requiring a rethinking of models for the origin of the Earth and Moon. This book is intended to serve as a resource for those scientists working closely in this field, while at the same time it provides enough balance and depth to offer an introduction for students or technically minded general readers. Its thirty chapters address isotopic and chemical constraints on accretion, the dynamics of terrestrial planet formation, the impact-triggered formation of the Earth-Moon system, differentiation of the Earth and Moon, the origin of terrestrial volatiles, and conditions on the young Earth and Moon. Covering such subjects as the history and origin of the Moon's orbit, water on the Earth, and the implications of Earth-Moon interactions for terrestrial climate and life, the book constitutes a state-of-the-art overview of the most recent investigations in the field. Although many advances have been made in our ability to evaluate competing models of the formation of the Earth-Moon system, there are still many gaps in our understanding. This book makes great strides toward closing those gaps by highlighting the extensive progress that has been made and pointing

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toward future research.

The popular belief that a scientific understanding of reality is incompatible with a Christian one is simply wrong. Some Christian understandings of reality do conflict with some scientific understandings. But a thoroughly rational Christian understanding of the origin and history of the universe will be informed by the best scientific theories and the "facts" founded on them. This book weaves a narrative of the origin and history of the universe from the perspective of contemporary science with a Christian understanding of God and of God's role in the origin and history of the universe. At the center of this integrated narrative is the view that God, who is pure, unbounded Love, is Creator: the zest for life in the universe comes from God, and God is the source of Truth, Beauty, and Goodness in the universe. God is amazed and delighted at what God-and-the-world has created; God is saddened by ways creatures have fallen short of pure, unbounded Love, Truth, Beauty, and Goodness; and God's pure, unbounded Love keeps on trying to persuade all creatures toward Truth, Beauty, and Goodness.

Astronomy and Astrophysics Abstracts, which has appeared in semi-annual volumes since 1969, is devoted to the recording, summarizing and indexing of astronomical publications throughout the world. It is prepared under the auspices of the International Astronomical Union (according to a resolution

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adopted at the 14th General Assembly in 1970). Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics. Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months: This time interval is near to that achieved by monthly abstracting journals, compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user. I, 1980; some older Volume 27 contains literature published in 1980 and received before August literature which was received late and which is not recorded in earlier volumes is also included. We acknowledge with thanks contributions to this volume by Dr. J. Bouska, Prague, who surveyed journals and publications in Czech and supplied us with abstracts in English. A creationist's critique of the evolutionary ideas found in four popular high school biology text books used in public schools: [1.] Biggs, A. et al., *Biology : the dynamics of life* (Florida edition), Glencoe/McGraw Hill, New York, 2006. [2.] Campbell, N., B. Williamson, and R. Heyden, *Biology : exploring life* (Florida teacher's ed.), Pearson Prentice Hall, Upper Saddle River, New Jersey, 2006. [3.] Johnson, G. and P. Raven, *Biology* (Teacher's ed.), Holt, Rinehart, and Winston, Austin,

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Texas, 2006. [4.] Miller, K. R. and J. Levine, Biology (Teacher's ed.), Pearson Prentice Hall, Upper Saddle River, New Jersey, 2006.

Used widely in non-majors biology classes, *The Tangled Bank* is the first textbook about evolution intended for the general reader. Zimmer, an award-winning science writer, takes readers on a fascinating journey into the latest discoveries about evolution. In the Canadian Arctic, paleontologists unearth fossils documenting the move of our ancestors from sea to land. In the outback of Australia, a zoologist tracks some of the world's deadliest snakes to decipher the 100-million-year evolution of venom molecules. In Africa, geneticists are gathering DNA to probe the origin of our species. In clear, non-technical language, Zimmer explains the central concepts essential for understanding new advances in evolution, including natural selection, genetic drift, and sexual selection. He demonstrates how vital evolution is to all branches of modern biology—from the fight against deadly antibiotic-resistant bacteria to the analysis of the human genome.

This is Charles Darwin's chronicle of his five-year journey, beginning in 1831, around the world as a naturalist on the H.M.S. *Beagle*.

A truly Galilean-class volume, this book introduces a new method in theory formation, completing the tools of epistemology. It covers a broad spectrum of

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theoretical and mathematical physics by researchers from over 20 nations from four continents. Like Vigier himself, the Vigier symposia are noted for addressing avant-garde, cutting-edge topics in contemporary physics. Among the six proceedings honoring J.-P. Vigier, this is perhaps the most exciting one as several important breakthroughs are introduced for the first time. The most interesting breakthrough in view of the recent NIST experimental violations of QED is a continuation of the pioneering work by Vigier on tight bound states in hydrogen. The new experimental protocol described not only promises empirical proof of large-scale extra dimensions in conjunction with avenues for testing string theory, but also implies the birth of the field of unified field mechanics, ushering in a new age of discovery. Work on quantum computing redefines the qubit in a manner that the uncertainty principle may be routinely violated. Other breakthroughs occur in the utility of quaternion algebra in extending our understanding of the nature of the fermionic singularity or point particle. There are several other discoveries of equal magnitude, making this volume a must-have acquisition for the library of any serious forward-looking researchers. Describes the evolution of life on Earth, from the first life forms to complex organisms and the age of the dinosaurs, and explains how some modern animals evolved from prehistoric ancestors.

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Describes the geological history of the Earth, including how the planet was formed, the beginnings of life, the rise of the dinosaurs in the Mesozoic Age, and the possible future of the Earth.

This revised and expanded new edition is a meticulously documented resource dealing with the age-old creation/evolution controversy. The author, who received a PhD from M.I.T., carefully explains and illustrates scientific evidence from biology, astronomy, and the physical and earth sciences that relates to origins and the flood. The hydroplate theory, developed after more than 30 years of study by Dr. Walt Brown, explains, with overwhelming scientific evidence, earth's defining geological event - a worldwide flood. This book includes an index, extensive endnotes and references, technical notes, answers to 36 frequently asked questions on related topics, and hundreds of illustrations, most in full color.

California has some of the most distinctive and unique geology in the United States. It is the only state with all three types of plate boundaries, an extraordinary history of earthquakes and volcanoes, and it has many rocks and minerals found nowhere else. The Golden State includes both the highest and lowest point in the continental US and practically every conceivable geological feature known. This book discusses not only the important geologic features of each region in California, but also the

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complex geologic four-dimensional puzzle of how California was assembled, beginning over 2 billion years ago. The author provides up-to-date and authoritative review of the geology and geomorphology of each geologic province, as well as recent revelations of tectonic history of California's past. There are separate chapters on some of California's distinctive geologic resources, including gold, oil, water, coastlines, and fossils. An introductory section describes basic rock and mineral types and fundamental aspects of plate tectonics, so that students and other readers can make sense of the bizarre, wild, and crazy jigsaw puzzle that is California's geological history.

A Journey to the Center of the Earth was a science fiction novel written by Jules Verne in 1864. Jules Verne was considered by many to be a father of science fiction writing and incorporated the latest discoveries of the day into his work. As such, we are not surprised to find allusions to dinosaurs, natural gas, and ancient Scandinavian texts in this book. Equally, we also find the thorough respect that Verne has for the intellectual mind, both as a reckless force and as a tempering power.

ONE OF THE NEW YORK TIMES BOOK REVIEW'S 10 BEST BOOKS OF THE YEAR A major book about the future of the world, blending intellectual and natural history and field reporting into a powerful account of the mass extinction unfolding before our

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eyes Over the last half a billion years, there have been five mass extinctions, when the diversity of life on earth suddenly and dramatically contracted. Scientists around the world are currently monitoring the sixth extinction, predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs. This time around, the cataclysm is us. In *The Sixth Extinction*, two-time winner of the National Magazine Award and *New Yorker* writer Elizabeth Kolbert draws on the work of scores of researchers in half a dozen disciplines, accompanying many of them into the field: geologists who study deep ocean cores, botanists who follow the tree line as it climbs up the Andes, marine biologists who dive off the Great Barrier Reef. She introduces us to a dozen species, some already gone, others facing extinction, including the Panamian golden frog, staghorn coral, the great auk, and the Sumatran rhino. Through these stories, Kolbert provides a moving account of the disappearances occurring all around us and traces the evolution of extinction as concept, from its first articulation by Georges Cuvier in revolutionary Paris up through the present day. The sixth extinction is likely to be mankind's most lasting legacy; as Kolbert observes, it compels us to rethink the fundamental question of what it means to be human.

The Earth's Core, Second Edition is a six-chapter

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book that begins with the general physical properties of the Earth, with emphasis on the core-mantle boundary. This edition discusses the accretion mechanism, heat sources in the early Earth, time of core formation, thermal regime of the Earth, melting-point depth curves, and thermal consequences of iron-alloy core. Subsequent chapters focus on reversals of the Earth's magnetic field; the energetics and the constitution of the Earth's core; and the cores of the Moon and other planets. The role of the Earth's core is vital to the understanding of many geophysical phenomena. It is the seat of the Earth's magnetic field and is responsible as well to some variations in the length of the day.

Encyclopedia of Geology, Second Edition presents in six volumes state-of-the-art reviews on the various aspects of geologic research, all of which have moved on considerably since the writing of the first edition. New areas of discussion include extinctions, origins of life, plate tectonics and its influence on faunal provinces, new types of mineral and hydrocarbon deposits, new methods of dating rocks, and geological processes. Users will find this to be a fundamental resource for teachers and students of geology, as well as researchers and non-geology professionals seeking up-to-date reviews of geologic research. Provides a comprehensive and accessible one-stop shop for information on the subject of geology, explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological

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sciences, tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

In this scholarly and timely presentation of the history of economic thought, you'll see how new ideas, evidence, problems and values can be used to reconsider basic disputes and major contributions of the past. THE EVOLUTION OF ECONOMIC THOUGHT, 8e covers the history of economics, the philosophies that drive the economic way of thinking, the ideas of the great economic thinkers and their logical connections to the world. You'll see how Robert Solow's pioneering model can be used to discuss recent renewed emphasis on growth theory and technological change and will explore antitrust perspectives and game theory. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

One of the leading textbooks in its field, *Bringing Fossils to Life* applies paleobiological principles to the fossil record while detailing the evolutionary history of major plant and animal phyla. It incorporates current research from biology, ecology, and population genetics, bridging the gap between purely theoretical paleobiological textbooks and those that describe only invertebrate paleobiology and that emphasize cataloguing live organisms instead of dead objects. For this third edition Donald R. Prothero has revised the art and research throughout, expanding the coverage of invertebrates and

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adding a discussion of new methodologies and a chapter on the origin and early evolution of life.

Science considers the words "God created the heaven and the earth" as mythology. The Creator provides an explicit description of creating the universe and provides distinct and detailed information about the birth and evolution of the earth. The individual occurrences were completed in precise order, on a definite timeline of the days referenced. The fact is, the words "create something" are a scientific term. That is to say, an accurate definition of the words requires a scientific explanation. How can the words "create something" be defined without science? In 1300 BCE, what was the basis of religion? Was religion being practiced when Moses brought the Words of the Creator to humanity? Christianity occurred about 1,300 years later; what religions were practiced before Christianity? Ans: polytheism Did polytheism have the word creation in its doctrine? When did the term supernatural begin? Which Words of Elohim are considered supernatural? Ans: created Why does science consider the term to create untrue or myth? Ans: Something cannot come from anything. In chapter one verse one, "God created the heaven and the earth" is considered a myth? Ans: yes, making something from nothing is impossible. Scientifically, does create mean to make something from nothing? Ans: no Genesis one verse one: "In the beginning, God created the heaven and the earth;" does science consider the term created in this instance, making something from nothing? If the answer is yes. That's not what this sentence is saying, because

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something cannot be made from anything. According to the law of conservation of energy, energy can neither be created nor destroyed but can change form. The energy was present before heaven and the earth was created. Science has rejected the creation of heaven and the earth for several reasons, including its claims do not refer to natural causes and cannot be tested. In 1987, the United States Supreme Court ruled that creationism is religion, not science, and cannot be advocated in public school classrooms. In reality creation of heaven and the earth is science.

How did life evolve on Earth? The answer to this question can help us understand our past and prepare for our future. Although evolution provides credible and reliable answers, polls show that many people turn away from science, seeking other explanations with which they are more comfortable. In the book *Science, Evolution, and Creationism*, a group of experts assembled by the National Academy of Sciences and the Institute of Medicine explain the fundamental methods of science, document the overwhelming evidence in support of biological evolution, and evaluate the alternative perspectives offered by advocates of various kinds of creationism, including "intelligent design." The book explores the many fascinating inquiries being pursued that put the science of evolution to work in preventing and treating human disease, developing new agricultural products, and fostering industrial innovations. The book also presents the scientific and legal reasons for not teaching creationist ideas in public school science classes. Mindful of school board battles and recent court

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decisions, Science, Evolution, and Creationism shows that science and religion should be viewed as different ways of understanding the world rather than as frameworks that are in conflict with each other and that the evidence for evolution can be fully compatible with religious faith. For educators, students, teachers, community leaders, legislators, policy makers, and parents who seek to understand the basis of evolutionary science, this publication will be an essential resource. Although Charles Darwin's theory of evolution laid the foundations of modern biology, it did not tell the whole story. Most remarkably, *The Origin of Species* said very little about, of all things, the origins of species. Darwin and his modern successors have shown very convincingly how inherited variations are naturally selected, but they leave unanswered how variant organisms come to be in the first place. In *Symbiotic Planet*, renowned scientist Lynn Margulis shows that symbiosis, which simply means members of different species living in physical contact with each other, is crucial to the origins of evolutionary novelty. Ranging from bacteria, the smallest kinds of life, to the largest -- the living Earth itself -- Margulis explains the symbiotic origins of many of evolution's most important innovations. The very cells we're made of started as symbiotic unions of different kinds of bacteria. Sex -- and its inevitable corollary, death -- arose when failed attempts at cannibalism resulted in seasonally repeated mergers of some of our tiniest ancestors. Dry land became forested only after symbioses of algae and fungi evolved into plants. Since all living things are bathed by

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the same waters and atmosphere, all the inhabitants of Earth belong to a symbiotic union. Gaia, the finely tuned largest ecosystem of the Earth's surface, is just symbiosis as seen from space. Along the way, Margulis describes her initiation into the world of science and the early steps in the present revolution in evolutionary biology; the importance of species classification for how we think about the living world; and the way "academic apartheid" can block scientific advancement. Written with enthusiasm and authority, this is a book that could change the way you view our living Earth.

"A sharp analysis of the quest for unreal critters?cryptids, as they are called?and the people who pursue them . . . entertaining and thoroughly documented." —The Wall Street Journal Throughout our history, humans have been captivated by mythic beasts and legendary creatures. Tales of Bigfoot, the Yeti, and the Loch Ness monster are part of our collective experience. Now comes a book from two dedicated investigators that explores and elucidates the fascinating world of cryptozoology. Daniel Loxton and Donald R. Prothero have written an entertaining, educational, and definitive text on cryptids, presenting the arguments both for and against their existence and systematically challenging the pseudoscience that perpetuates their myths. After examining the nature of science and pseudoscience and their relation to cryptozoology, Loxton and Prothero take on Bigfoot; the Yeti, or Abominable Snowman, and its cross-cultural incarnations; the Loch Ness monster and its highly publicized sightings; the evolution of the Great Sea

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Serpent; and Mokele Mbembe, or the Congo dinosaur. They conclude with an analysis of the psychology behind the persistent belief in paranormal phenomena, identifying the major players in cryptozoology, discussing the character of its subculture, and considering the challenge it poses to clear and critical thinking in our increasingly complex world. "As valuable for its analysis of the hunted as it is for the light it shines on the still-hopeful hunters." —Publishers Weekly "Highly recommended for readers looking for scientific but accessible evaluations of the existence of five notable cryptids that have captured our imaginations." —Library Journal (starred review)

Evolution of the Earth reveals the logical framework of geology, shows relations of the science to the totality of human knowledge, and gives some idea of what it is to be a participant in the discipline. In keeping with the preference for a "How do we know?" rather than "What do we know?" approach, the authors stress what assumptions are made by earth historians, what kinds of evidence (and tools for gathering that evidence), and what processes of reasoning and limitations of hypotheses are involved in reconstructing and interpreting the past. Each chapter begins with a list of highlights entitled "Major Concepts". Many chapters have a summary timeline that puts the entire sequence of events into a quick visual reference frame. The use of dioramas and reconstructions of extinct animals and plants has been greatly expanded, so that students can get a

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more vivid concept of typical life in any part of the geologic past. In many places, the authors have supplied a full page of color photos of classic fossils from each period to improve the visual recognition of the organisms that give life its distinctive history. The areas of hottest controversy, such as mass extinctions, dinosaur endothermy, the origin of life, and controversies over late Proterozoic tectonics and glaciation, have been given separate sections so that students can appreciate the different sides of the debates.

Offering comprehensive content for the historical geology course, HISTORICAL GEOLOGY provides students with an understanding of the principles of historical geology and how these principles are applied in unraveling Earth's history. Students will learn and understand the underlying causes of why things happened and the way they did, and how all of Earth's systems and subsystems are interrelated. Students will understand the relevancy of Earth's history as part of a dynamic and complex integrated system, not as a series of isolated and unrelated events Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Volume 2, dedicated to Barry Hawthorne, presents papers concerned with the genesis of eclogites, the mineralogy of diamond and its inclusions, exploration methods for kimberlite, the geochemistry of the

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upper mantle and the character of cratons.

The Fifth Edition of this bestselling textbook features stunning art, the most up-to-date science, and a wealth of online learning tools, all developed under the critical eyes of Stephen Marshak. Heavily revised with remarkably detailed photographs, animations, and maps, the text offers rich and engaging pedagogy, an expanded chapter on energy, and coverage of recent global events, from Hurricane Sandy and the Washington Landslide to Typhoon Haiyan and the Japanese Tsunami.

THE CHANGING EARTH: EXPLORING GEOLOGY AND EVOLUTION, Seventh Edition, is a member of a rare breed of texts written specifically for courses covering both physical and historical geology. Three interrelated themes (plate tectonics, organic evolution, and geologic time) help students understand that Earth is a complex, integrated, and continually changing system. In the new edition authors James S. Monroe and Reed Wicander integrate new content emphasizing the economic impacts of geology. Topics such as fracking, nuclear waste, and the threat of earthquakes are covered in new Geo-Impact boxes that stress real-world applications. Lauded for their clear writing style, the authors go beyond simply explaining geology and its processes; rather, they place that knowledge within the context of human experience by consistently emphasizing relevance, resources, and the

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environment. New Global Geoscience Watch activities help students learn how to use an extensive database of articles on geology that are updated several times a day and are available exclusively for users of this book. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

For the introductory geology or physical geology course. Understanding Earth offers both majors and non-majors rock solid content that originated with the ground-breaking text, Earth. In subsequent editions, the text has consistently met the needs of today's students with exceptional content, currency, interactive learning features, and an overall focus of the role of geological science in our lives.

Understanding Earth doesn't merely present the concepts and processes of physical geology—the authors focus on how we know what we know.

Students actively take part in the scientific process of discovery and learn through experience as they explore the impact of geology on their lives as citizens and future stewards of the planet. The new edition incorporates coverage of recent natural disasters (the 2011 tsunami), fracking and other natural resources issues, the latest developments in climate change, and key events such as the Mars mission and the arrest of geologists in Italy.

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