

Millions And Billions Of Years Ago Dating Our Earth And Its Life

Supercontinent - Ted Nield 2012-02-09

The shifting continents of the Earth are heading for inevitable collision: 250 million years from now, all the land masses on this planet will come together in a single, gigantic supercontinent which no human is ever likely to see. That future supercontinent will not be the first to form on Earth, nor will it be the last. Each cycle lasts half a billion years, making it the grandest of all the patterns in nature. It is scarcely a century since science first understood how Pangaea, the supercontinent which gave birth to dinosaurs, split apart, but scientists can now look back three-quarters of a billion years into the Earth's almost indecipherable past to reconstruct Pangaea's predecessor, and computer-model the shape of the Earth's far-distant future. Ted Nield's book tells the astounding story of how that science emerged (often in the face of fierce opposition), and how scientists today are using the most modern techniques to draw information out of the oldest rocks on Earth. It also reveals the remarkable human story of the Atlantis-seeking visionaries and madmen who have been imagining lost or undiscovered continents for centuries. Ultimately all supercontinents exist only in the human imagination, but understanding the 'Supercontinent Cycle' represents nothing less than finally knowing how our planet works.

Cradle of Life - J. William Schopf 2001-04

One of the greatest mysteries in reconstructing the history of life on Earth has been the apparent absence of fossils dating back more than 550 million years. We have long known that fossils of sophisticated marine life-forms existed at the dawn of the Cambrian Period, but until recently scientists had found no traces of Precambrian fossils. The quest to find such traces began in earnest in the mid-1960s and culminated in one dramatic moment in 1993 when William Schopf identified fossilized microorganisms three and a half billion years old. This startling find opened up a vast period of time--some eighty-five percent of Earth's history--to new research and new ideas about life's beginnings. In this book, William Schopf, a pioneer of modern paleobiology, tells for the first time the exciting and fascinating story of the origins and earliest evolution of life and how that story has been unearthed. Gracefully blending his personal story of discovery with the basics needed to understand the astonishing science he describes, Schopf has produced an introduction to paleobiology for the interested reader as well as a primer for beginning students in the field. He considers such questions as how did primitive bacteria, pond scum, evolve into the complex life-forms found at the beginning of the Cambrian Period? How do scientists identify ancient microbes and what do these tiny creatures tell us about the environment of the early Earth? (And, in a related chapter, Schopf discusses his role in the controversy that swirls around recent claims of fossils in the famed meteorite from Mars.) Like all great teachers, Schopf teaches the non-specialist enough about his subject along the way that we can easily follow his descriptions of the geology, biology, and chemistry behind these discoveries. Anyone interested in the intriguing questions of the origins of life on Earth and how those origins have been discovered will find this story the best place to start.

Millions and Billions of Years Ago - Norman F. Smith 1993

Discusses the processes by which scientists determine the age of their specimens, such as counting the number of tree rings, reading the strata, and using chemical analyses and the carbon-14 test. Also looks at recent findings that may tell us how old the universe is.

Prehistoric Past Revealed - Douglas Palmer 2003

Over the last 200 years our view of the world has been revolutionized.' Advances in geology and palaeontology, and in scientific techniques, over the past few centuries has led to a radical rethinking of our assumptions about our past.

The Evolution of Everything - Brian Villmoare 2022-11-24

Big History seeks to retell the human story in light of scientific advances by such methods as radiocarbon dating and genetic analysis. This book provides a deep, causal view of the forces that have shaped the

universe, the earth, and humanity. Starting with the Big Bang and the formation of the earth, it traces the evolutionary history of the world, focusing on humanity's origins. It also explores the many natural forces shaping humanity, especially the evolution of the brain and behaviour. Moving through time, the causes of such important transformations as agriculture, complex societies, the industrial revolution, the enlightenment, and modernity are placed in the context of underlying changes in demography, learning, and social organization. Humans are biological creatures, operating with instincts evolved millions of years ago, but in the context of a rapidly changing world, and as we try to adapt to new circumstances, we must regularly reckon with our deep past.

The New Atlas of Planet Management - Norman Myers 2005

The editors present a graphics-driven, state-of-the-planet survey of natural systems, human impact on those systems, and how to manage them for a sustainable future.

Thousands... Not Billions - Dr. Donald DeYoung 2005-09-01

"Evolutionary models for life, earth, and space are questioned today by a significant group of scientists worldwide. They are convinced that the earth and the entire universe are the result of a supernatural creation event which occurred just thousands of years ago, not billions of years." Why do conventional methods for dating rocks differ so radically? What does carbon-14 found in diamonds tell us? Was there accelerated nuclear decay in earth's history? Are the creation and Flood accounts genuine historic events? These and many other questions are addressed in *Thousands...Not Billions*. This book summarizes eight years of research by the Institute for Creation Research (ICR) and a team of scientists, whose goal was to explore the age of the earth from a biblical perspective. The project title was Radioisotopes and the Age of The Earth, or RATE. The age of the earth is one of the most divisive topics today, much debated by scholars and laypersons alike. What one believes about the age of the earth goes a long way in determining world views. The Bible is explicit that the earth is young, but many people feel that science has proved our planet is more than four billion year old. *Thousands...Not Billions* provides a compelling challenge to Darwinian evolution.

Life on a Young Planet - Andrew H. Knoll 2015-03-22

Australopithecines, dinosaurs, trilobites--such fossils conjure up images of lost worlds filled with vanished organisms. But in the full history of life, ancient animals, even the trilobites, form only the half-billion-year tip of a nearly four-billion-year iceberg. Andrew Knoll explores the deep history of life from its origins on a young planet to the incredible Cambrian explosion, presenting a compelling new explanation for the emergence of biological novelty. The very latest discoveries in paleontology--many of them made by the author and his students--are integrated with emerging insights from molecular biology and earth system science to forge a broad understanding of how the biological diversity that surrounds us came to be. Moving from Siberia to Namibia to the Bahamas, Knoll shows how life and environment have evolved together through Earth's history. Innovations in biology have helped shape our air and oceans, and, just as surely, environmental change has influenced the course of evolution, repeatedly closing off opportunities for some species while opening avenues for others. Readers go into the field to confront fossils, enter the lab to discern the inner workings of cells, and alight on Mars to ask how our terrestrial experience can guide exploration for life beyond our planet. Along the way, Knoll brings us up-to-date on some of science's hottest questions, from the oldest fossils and claims of life beyond the Earth to the hypothesis of global glaciation and Knoll's own unifying concept of "permissive ecology." In laying bare Earth's deepest biological roots, *Life on a Young Planet* helps us understand our own place in the universe--and our responsibility as stewards of a world four billion years in the making. In a new preface, Knoll describes how the field has broadened and deepened in the decade since the book's original publication.

From Stars to Stalagmites - Paul S Braterman 2012-04-16

Feynman once selected, as the single most important statement in science, that everything is made of atoms. It follows that the properties of everything depend on how these atoms are joined together, giving rise to the vast field we know of today as chemistry. In this unique book specifically written to bridge the gap between chemistry and the layman, Braterman has put together a series of linked essays on chemistry related themes that are particularly engaging. The book begins with the age of the earth, and concludes with the life cycle of stars. In between, there are atoms old and new, the ozone hole mystery and how it was solved, synthetic fertilisers and explosives, reading the climate record, the extraction of metals, the wetness of water, and how the greenhouse effect on climate really works. A chapter in praise of uncertainty leads on to the "fuzziness" and sharing of electrons, and from there to molecular shape, grass-green and blood-red, the wetness of water, and molecular recognition as the basis of life. Organised in such a way as to illustrate and develop underlying principles and approaches, this book will appeal to anyone interested in chemistry, as well as its history and key personalities. Where many other titles have failed, this book succeeds brilliantly in capturing the spirit and essence of chemistry and delivering the science in easily digestible terms. Contents: The Age of the Earth — An Age-Old Question Atoms Old and New The Banker Who Lost His Head From Particles to Molecules, with a Note on Homoeopathy The Discovery of the Noble Gases — What's so New About Neon? Science, War, and Morality; The Tragedy of Fritz Haber The Ozone Hole Story — A Mystery with Three Suspects Rain Gauge, Thermometer, Calendar, Warning Making Metal In Praise of Uncertainty Everything is Fuzzy Why Things Have Shapes Why Grass is Green, or Why Our Blood is Red Why Water is Weird The Sun, The Earth, The Greenhouse In the Beginning Readership: Intellectually curious non-scientists, scientists who are interested in the wider context of chemistry, and (perhaps most important) teachers at all levels who wish to show their classes that chemistry is not a mass of dead data, but a vibrant cultural activity.

Making Faces - Adam S. Wilkins 2017-01-02

Adam Wilkins draws on studies of nonhuman species, the fossil record, genetics, and molecular and developmental biology to reconstruct the evolution of the human face and its inextricable link to our species' evolving social complexity. The neural and muscular mechanisms that allowed facial expressions also led to speech, which is unique to humans.

The Story of Earth & Life - Terence McCarthy 2013-07-10

Geologically speaking, southern Africa is without equal, a treasure house of valuable minerals with a geological history dating back some 3 600 million years. In addition, the evolution of plants and animals, especially mammals and dinosaurs, is well preserved in the region, which also probably has the best record of the origin of modern man. This book provides a fascinating insight into that remarkable history: how southern Africa, and to some extent the world, came to be the way it is - how its mineral deposits formed, its life evolved and its landscape was shaped. Along the way readers will be enthralled by accounts of the Big Bang that marked the beginning of time and matter, by drifting and colliding continents, folding and fracturing of rocks, meteors colliding with the Earth, the time when the Earth froze over, volcanic eruptions and the start of life. Anyone interested in the landscape and ecosystems in which we live will be intrigued to discover how our natural landmarks were formed, from the deserts of Namibia to the mountains of the Western Cape or Mpumalanga. Why is South Africa so rich in minerals? How did glacial deposits come to be found in the Karoo? Why did dinosaurs become extinct? How did mammals develop from reptiles? How closely related are we to the apes? The answers to many such questions are found in this lavishly illustrated volume. The authors also suggest how we can learn from the past in order to anticipate the future - for instance, to be able to predict earthquakes, deal with volcanic eruptions and meet the challenges of global climate change.

Fundamental Processes in Ecology - David M Wilkinson 2007-09-13

Fundamental Processes in Ecology presents a way to study ecosystems that is not yet available in ecology textbooks but is resonant with current thinking in the emerging fields of geobiology and Earth System Science. It provides an alternative, process-based classification of ecology and proposes a truly planetary view of ecological science. To achieve this, it asks (and endeavours to answer) the question, "what are the fundamental ecological processes which would be found on any planet with Earth-like, carbon based, life?" The author demonstrates how the idea of fundamental ecological processes can be developed at the

systems level, specifically their involvement in control and feedback mechanisms. This approach allows us to reconsider basic ecological ideas such as energy flow, guilds, trade-offs, carbon cycling and photosynthesis; and to put these in a global context. In doing so, the book puts a much stronger emphasis on microorganisms than has traditionally been the case. The integration of Earth System Science with ecology is vitally important if ecological science is to successfully contribute to the massive problems and future challenges associated with global change. Although the approach is heavily influenced by Lovelock's Gaia hypothesis, this is not a popular science book about Gaian theory. Instead it is written as an accessible text for graduate student seminar courses and researchers in the fields of ecology, earth system science, evolutionary biology, palaeontology, history of life, astrobiology, geology and physical geography.

The Lives of Seaweeds - Julie A. Phillips 2023-11-21

An engaging and richly illustrated exploration of the natural history of seaweeds and other algae As photosynthetic organisms, seaweeds and other algae transfer billions of tons of carbon globally from the atmosphere to the deep ocean each year. Coming in all manner of colors, shapes, and sizes, from bioluminescent single-celled algae to giant kelps, they form the basis of most marine food webs, and are found in almost all environments on the planet. Touted as the biofuel of the future, seaweeds and algae also hold promise for biodegradable packaging, offer a nutritious food source, and exhibit antiviral and antitumor properties. Combining accessible text with stunning images and graphics, this book takes a deep dive to explore the unique characteristics of seaweeds and other algae, outlining their extraordinary evolution as well as their morphology, life histories, ecology, and uses. Offering rare insights into the algal world, *The Lives of Seaweeds* is essential reading for naturalists and marine life enthusiasts.

Virus and the Whale - Judy Diamond 2006

For students, *Virus and the Whale* brings to light some of today's most exciting and up-to-date research through the stories of scientists who study evolution. Meanwhile, educators will benefit from the practical help the book provides with the twin challenges of evolution—what to teach and how to teach it.

Extreme States of Matter - Vladimir E. Fortov 2015-12-26

With its many beautiful colour pictures, this book gives fascinating insights into the unusual forms and behaviour of matter under extremely high pressures and temperatures. These extreme states are generated, among other things, by strong shock, detonation and electric explosion waves, dense laser beams, electron and ion beams, hypersonic entry of spacecraft into dense atmospheres of planets and in many other situations characterized by extremely high pressures and temperatures. Written by one of the world's foremost experts on the topic, this book will inform and fascinate all scientists dealing with materials properties and physics and also serve as an excellent introduction to plasma-, shock-wave and high-energy-density physics for students and newcomers seeking an overview. This second edition is thoroughly revised and expanded, in particular with new material on high energy-density physics, nuclear explosions and other nuclear transformation processes.

Educational Series - 1999

Stars on the Earth - Richard Leviton 2006-08-18

Discover the wonderful secret the Earth holds for us—that the stars of the galaxy live on our planet. Holograms of high-magnitude stars over holy mountains. Physical travel to other planets through stargates on the Earth's surface. Near instantaneous transportation across the planet through quick-way portals. Outrageous science fiction or sober geomantic fact? Earth Mysteries researcher Richard Leviton takes you on a wild tour of three geomantic features of our planet and reveals that what science fiction has dreamed the Earth in fact offers us. *Stars on the Earth* combines scholarship, clairvoyance, and field experience with the latest discoveries of geology and astrophysics and the timeless insights of the world's myths to open the planetary door to the stars. It's all part of the Earth's unsuspected but staggeringly rich endowment as a designer planet. Our planet was precisely designed and implemented for us, and it's equipped with a visionary geography that mirrors features of the galaxy and Heavens. Why are so many of the Earth's mountains said to be holy, producing visions and encounters with the "gods?" They all have canopies of light called domes, each transmitting the presence of a galactic star. What is the geomantic origin of the Bermuda Triangle? Two dysfunctional stargates. If working properly, they and the Earth's other two million

stargates could transport us rapidly to other planets. Is there a way to travel quickly across the planet without using cars, airplanes, boats, or trains? Yes, and it's called a traversable wormhole, and the Earth has thousands of them awaiting our discovery and use. Come join the tour of a planet you've never seen before: our own star-infused Earth.

Living Computers - Alvis Brazma 2023-11-16

This accessible and entertaining book explores the fundamental connections between life and information and how they emerged inextricably linked, taking the reader on a journey through all the major evolutionary transitions. It records the entire path of how life's information has evolved, starting from the growing polymers of prelife leading to the first replicators, through RNA and DNA to neural networks and animal brains, continuing through the major transition of human language and writing, into computer clouds, and finally heading towards an unknown future. All currently known life is based on three classes of molecules: proteins - life's main structural and functional building blocks; DNA - life's information molecule; and RNA - a molecule that provides the link between these two. Despite the existence of language and the new means of information recording and processing it enabled, at the current stage of life's evolution, the information stored in the natural repository of our planet's DNA archive remains indispensable. If the DNA on Earth were to become seriously corrupted, all cultural information and life itself would soon disappear. However, does future life have to be reliant on these molecules or could a living organism be made of e.g. steel, rubber, copper, and silicon? What was life like when it first emerged on Earth billions of years ago? What will life be like millions or billions of years from now, if it still exists? Could future civilisations, including the possible heirs of the present one, persist without proteins, DNA, and RNA? The author arms the reader with the knowledge required to speculate about such questions in an informed and reasoned way. *Living Computers* is aimed at students and scholars in a wide range of disciplines, from physics, computing, and biology to social sciences and philosophy. The fascinating idea of life as a computational phenomenon will also appeal to a more general readership interested in our origins and future existence.

Astrobiology and Cuatro Ciénegas Basin as an Analog of Early Earth - Valeria Souza 2020-07-14

Astrobiology not only investigates how early life took hold of our planet but also life on other planets - both in our Solar System and beyond - and their potential for habitability. The book takes readers from the scars on planetary surfaces made by space rocks to the history of the Solar System narrated by those space rocks as well as exoplanets in other planetary systems. But the true question is how life arose here or elsewhere. Modern comparative genomics has revealed that Darwin was correct; a set of highly conserved genes and cellular functions indicate that all life is related by common ancestry. The Last Universal Common Ancestor or LUCA sits at the base of the Tree of Life. However, once that life took hold, it started to diversify and form complex microbial communities that are known as microbial mats and stromatolites. Due to their long evolutionary history and abundance on modern Earth, research on the biological, chemical and geological processes of stromatolite formation has provided important insights into the field of astrobiology. Many of these microbialite-containing ecosystems have been used as models for astrobiology, and NASA mission analogs including Shark Bay, Pavilion and Kelly Lakes. Modern microbialites represent natural laboratories to study primordial ecosystems and provide proxies for how life could evolve on other planets. However, few viral metagenomic studies (i.e., viromes) have been conducted in microbialites, which are not only an important part of the community but also mirror its biodiversity. This book focuses on particularly interesting sites such as Andean lake microbialites, a proxy of early life since they are characterized by very high UV light, while Alchichica and Bacalar lakes are characterized by high-salt and oligotrophic waters that nurture stromatolites. However, it is only the oasis of Cuatro Ciénegas Basin in México that stored past life in its marine sediments of the Sierra de San Marcos. This particular Sierra has a magmatic pouch that moves the deep aquifer to the surface in a cycle of sun-drenched life and back to the depths of the magmatic life in an ancient cycle that now is broken by the overexploitation of the surface water as well as the deep aquifer in order to irrigate alfalfa in the desert. The anthropocene, the era of human folly, is killing this unique time machine and with it the memory of the planet.

The Age of the Earth - G. Brent Dalrymple 1991

A synthesis of all that has been postulated and is known about the age of the Earth

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