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FAULKNER CASSIUS

Planet Life Light Technology Publishing
Why is the world the way it is? What forces have forged our planet and how have they in turn governed our evolution, influenced the rise and fall of civilisations through history, and ultimately shaped the story of humanity? Lying imperceptibly beneath everything we encounter in the modern world is a vast architecture of causal links, chains of consequences that explain why things are the way they are. Origins is the story of this connectivity; it's not about what we've done to our environment, but about what our environment has done to us. We'll range from the deep roots behind everyday realities, like why do most of us eat cereal for breakfast, to the profound factors that enabled life to make transitions in evolution. These questions and their answers will take us via the make-up of our anatomy and the geography of the Mediterranean coastline, to the production of cocaine and the importance of volcanoes. With unquenchable curiosity, Lewis Dartnell shows us history that goes back far before the existence of historical records, relying instead on scientific clues like the tell-tale signs preserved in ancient rocks, revealed in our genes, or observed through a telescope. Origins unravels the story of humanity by exposing this vast web of connections that stretch deep into the past, that explain our present and that will inform how we face the challenges of the future.
Origins of Life Health Research Books
Since the beginning of civilization, the origins of the Earth and Moon have been the subjects of continuing interest, speculation, and enquiry. These are also among the most challenging of all scientific problems. They are, perhaps to a unique degree, interdisciplinary, having attracted the attention of philosophers, astronomers, mathematicians, geologists, chemists, and physicists. A large and diverse literature has developed, far beyond the capacity of individuals to assimilate adequately. Consequently, most of those who attempt to present review-syntheses in the area tend to reflect the perspectives of their own particular disciplines. The present author's approach is that of a geochemist, strongly influenced by the basic phil osophy of Harold Urey. Whereas most astronomical phenomena are controlled by gravitational and magnetic fields, and by nuclear interactions, Urey (1952) emphasized that the formation of the solar system occurred in a pressure-temperature regime wherein the chemical properties of matter were at least as important as those of gravitational and magnetic fields. This was the principal theme of his 1952 book, "The Planets," which revolutionized our approach to this subject. In many subsequent papers, Urey strongly emphasized the importance of meteorites in providing critical evidence of chemical conditions in the primordial solar nebula, and of the chemical fractionation processes which occurred during formation of the terrestrial planets. This approach has been followed by most subsequent geochemists and cosmochemists.
The Search for Life's Origins Penguin
The Royal Society's Science Book of the Year "[A]n exuberant romp through evolution, like a modern-day Willy Wonka of genetic space. Gee’s grand tour enthusiastically details the narrative underlying life’s erratic and often whimsical exploration of biological form and function.” —Adrian Woolfson, The Washington Post In the tradition of Richard Dawkins, Bill Bryson, and Simon Winchester—An entertaining and uniquely informed narration of Life's life story. In the beginning, Earth was an inhospitably alien place—in constant chemical flux, covered with churning seas, crafting its landscape through incessant volcanic eruptions. Amid all this tumult and disaster, life began. The earliest living things were no more than membranes stretched across microscopic gaps in rocks, where boiling hot jets of mineral-rich water gushed out from cracks in the ocean floor. Although these membranes were leaky, the environment within them became different from the raging maelstrom beyond. These havens of order slowly refined the generation of energy, using it to form membrane-bound bubbles that were mostly-faithful copies of their parents—a foamy lather of soap-bubble cells standing as tiny clenched fists, defiant against the lifeless world. Life on this planet has continued in much the same way for millennia, adapting to literally every conceivable setback that living organisms could encounter and thriving, from these humblest beginnings to the thrilling and unlikely story of ourselves. In A (Very) Short History of Life on Earth, Henry Gee zips through the last 4.6 billion years with infectious enthusiasm and intellectual rigor. Drawing on the very latest scientific understanding and writing in a clear, accessible style, he tells an enlightening tale of survival and persistence that illuminates the delicate balance within which life has always existed.
Origin of the Earth and Moon Geological Society of America
Breathtaking illustrations bring billions of years of Earth’s fascinating history to life in this engaging and accessible book created in conjunction with Natural Science Museum of Barcelona. What did Earth look like 300 million years ago? Page through this gorgeous book and travel back in time to discover the days when Earth was a very different place than it is today. In this cleverly designed book, readers can peel back the layers of history by lifting the flaps and vellum pages inside, and compare the plants and animals that lived in prehistoric landscapes with the fossils they left behind. The constantly evolving face of our planet comes to life, while the science behind Earth’s geology and climate is clearly explained. Packed with fascinating illustrations, this is a wonderful introduction to the earliest single-celled life forms to the mighty dinosaurs and onward to the first human beings.
Origins of the Earth, Moon, and Life Cambridge University Press
This edition of Science and Creationism summarizes key aspects of several of the most important lines of evidence supporting evolution. It describes some of the positions taken by advocates of creation science and presents an analysis of these claims. This document lays out for a broader audience the case against presenting religious concepts in science classes. The document covers the origin of the universe, Earth, and life; evidence supporting biological evolution; and human evolution. (Contains 31 references.) (CCM)
The History of Creation National Academies Press
“Tells the story . . . of how ‘natural philosophers’ developed the ideas of geology accepted today . . . Fascinating.” —San Francisco

Book Review Earth has been witness to dinosaurs, global ice ages, continents colliding or splitting apart, and comets and asteroids crashing, as well as the birth of humans who are curious to understand it. But how was all this discovered? How was the evidence for it collected and interpreted? In this sweeping and accessible book, Martin J. S. Rudwick, the premier historian of the Earth sciences, tells the gripping human story of the gradual realization that the Earth’s history has not only been long but also astonishingly eventful. Rudwick begins in the seventeenth century with Archbishop James Ussher, who famously dated the creation of the cosmos to 4004 BC. His narrative later turns to the late eighteenth and early nineteenth centuries, when geological evidence was used—and is still being used—to reconstruct a history of the Earth that is as varied and unpredictable as human history. itself. Along the way, Rudwick rejects the popular view of this story as a conflict between science and religion and shows how the modern scientific account of the Earth’s deep history retains strong roots in Judeo-Christian ideas. Extensively illustrated, Earth’s Deep History is an engaging and impressive capstone to Rudwick’s distinguished career. “Deftly explains how ideas of natural history were embedded in cultural history.” —Nature “An engaging read for nonscientists and specialists alike.” —Library Journal “Wonderfully erudite and absorbing.” —Times Literary Supplement “Fascinating, well written, and novel . . . Essential.” —Choice “Thrilling.” —London Review of Books

Life's Engines Princeton University Press

Read the Sunday Times bestseller that reveals the Earth's awesome impact on the shape of human civilisations. 'Stands comparison with Sapiens... Thrilling' Sunday Times Human evolution in East Africa was driven by geological forces. Ancient Greece developed democracy because of its mountainous terrain. Voting behaviour in the United States today follows the bed of an ancient sea. Professor Lewis Dartnell takes us on an astonishing journey into our planet's past to tell the ultimate origin story. Blending science and history, Origins reveals the Earth's awesome impact on the shape of human civilisations - and helps us to see the challenges and opportunities of the future. 'A sweeping, brilliant overview of the history not only of our species but of the world' Peter Frankopan, author of The Silk Roads 'Absorbing... A first-class read - and an important one' Observer

Earth History and Palaeogeography St. Martin's Press

The broad sweep of environmental and ecological history has until now been written and understood in predominantly male terms. In Made From This Earth, Vera Norwood explores the relationship of women to the natural environment through the work of writers, illustrators, landscape and garden designers, ornithologists, botanists, biologists, and conservationists. Norwood begins by showing that the study and promotion of botany was an activity deemed appropriate for women in the early 1800s. After highlighting the work of nineteenth-century scientific illustrators and garden designers, she focuses on nature's advocates such as Rachel Carson and Dian Fossey who differed strongly with men on both women's "nature" and the value of the natural world. These women challenged the dominant, male-controlled ideologies, often framing their critique with reference to values arising from the female experience. Norwood concludes with an analysis of the utopian solutions posed by ecofeminists, the most recent group of women to contest men over the meaning and value of nature.

The Story of the Earth in 25 Rocks Columbia University Press

The stewards of Earth, these organisms transformed the chemistry of our planet to make it habitable for plants, animals, and us.

The Postwar Origins of the Global Environment Basic Books

This book provides a complete Phanerozoic story of palaeogeography, using new and detailed full-colour maps, to link surface and deep-Earth processes.

The Knowledge National Academies Press

Please visit www.drinkingwaterguide.com Did you know more than 99% of your amazing body's molecules are water molecules, and 55% to 60% of your body weight is water? You therefore should make sure that the water in your body is clean, healthy and nutritious, and more importantly one 100% free of contaminants. This book is designed to help you achieve that goal! This book shows, based on the scientific evidence gathered by astronomers, cosmologists, space scientists and researchers, where exactly our planet Earth is located in our Universe, and how exactly our planet Earth possessed that much liquid water that we drink to survive today. The story begins with the amazing descriptions about the formation of our Universe after the Big Bang, trillions of stars, our spiral-shaped Milky Way Galaxy, our Solar System, our Sun, our planet Earth and our Moon. Drinking Water Guide teaches that we should avoid tap water, well water or bottled water of any kind, and drink only "purified water" that is either neutralized or slightly alkalized, and remineralized up to a TDS (Total Dissolved Solids) level of 200 ppm. Drinking Water Guide also teaches how to purchase or make your own purified water, and how to remineralize and alkalize the purified water with sample experiments conducted at home. "The Origin of the Earth's Water" is the compacted version of the original book "Drinking Water Guide (ISBN # 9780973112061)", which has 20 chapters and 522 pages. "The Origin of the Earth's Water" is compiled with 5 important chapters of the original book "Drinking Water Guide." TABLE OF CONTENTS: DRINKING WATER GUIDE Drinking Water Guide book has 522 pages, 20 Chapters, 121 Figures & 38 Tables. The Origin of the Earth's Water book has 134 pages, 5 Chapters, 28 Figures & 1 Table. The Paperback for both books looks like a workbook (8" x 10" size). CHAPTER 1 THE ORIGIN OF THE EARTH'S WATER CHAPTER 2 DRINKING WATER FACTS & STATISTICS CHAPTER 3 IMPORTANCE OF DRINKING WATER CHAPTER 4 TYPES OF DRINKING WATER CHAPTER 5 TAP WATER CHAPTER 6 BOILED WATER CHAPTER 7 BOTTLED WATER CHAPTER 8 SPRING WATER CHAPTER 9 WELL WATER CHAPTER 10 DEMINERALIZED WATER OR DEIONIZED WATER CHAPTER 11 REVERSE OSMOSIS WATER CHAPTER 12 DESALINATED WATER CHAPTER 13 DISTILLED WATER CHAPTER 13 APPENDIX-13A, APPENDIX-13B, APPENDIX-13C CHAPTER 14 BRITA, ZERO WATER AND PUR FILTRATION UNITS CHAPTER 15 ATMOSPHERIC WATER GENERATORS CHAPTER 16 HOW TO SANITIZE REUSABLE WATER BOTTLES CHAPTER 17 REMINERALIZATION OF THE PURIFIED WATER (A very important chapter) CHAPTER 18 ALKALINE WATER (A very important chapter) CHAPTER 19 DRINKING WATER GUIDE IN A NUTSHELLCHAPTER 20 THE ORIGIN OF THE EARTH'S WATER(CONTINUATION OF CHAPTER 1) Drinking Water Guide book has 522 pages, 20 Chapters, 121 Figures & 38 Tables. The Origin of the Earth's Water book has 134 pages, 5 Chapters, 28 Figures & 1 Table. BOOK'S FINAL MESSAGE: The water we drink today is at least 4.54 billion years old? Our planet Earth inherited up to 50% of its water from the interstellar medium even before it was born, and the remaining water came from the bombardment of asteroids during the early stages of our solar system formation. Our ancestors' belief that comets brought water to our planet Earth was however proved by our scientists to be a myth. Please visit www.drinkingwaterguide.com, and click on "Table of

Contents". Read REVIEWS here: www.drinkingwaterguide.com/REVIEWS.pdf (copy and paste this URL onto your browser, and read REVIEWS)

Thinking about the Earth Columbia University Press

Building Plant Earth presents a description of Earth as a planet, commencing with its physical and chemical evolution out of the primordial solar nebula. The condensation of elements and their redistribution are described, leading into a section dealing with mapping, geophysical and geochemical studies. This establishes the gross structure of the Earth, following which basic principles and processes of plate tectonics are then described, leading to the elucidation of the working of geological cycles. The main thrust of the remainder of the book is a description of the geological evolution of the Earth. Volcanism and seismicity, ice ages and climate, isotopic techniques and age dating, are all treated. The impact of mass extinctions, global-warming and ozone holes are included. The book is illustrated profusely and closes with a number of useful appendices.

Revolutions that Made the Earth Arcade Publishing

I love it. Earle understands the big climate picture and paints it with exceptional clarity. — JAMES HANSEN, director, Climate Science, Awareness and Solutions, Columbia University Earth Institute What's natural, what's caused by humans, and why climate change is a disaster for all A Brief History of the Earth's Climate is an accessible myth-busting guide to the natural evolution of the Earth's climate over 4.6 billion years, and how and why human-caused global warming and climate change is different and much more dangerous. Richly illustrated chapters cover the major historical climate change processes including evolution of the sun, plate motions and continental collisions, volcanic eruptions, changes to major ocean currents, Earth's orbital variations, sunspot variations, and short-term ocean current cycles. As well as recent human-induced climate change and an overview of the implications of the COVID pandemic for climate change. Content includes: Understanding natural geological processes that shaped the climate How human impacts are now rapidly changing the climate Tipping points and the unfolding climate crisis What we can do to limit the damage to the planet and ecosystems Countering climate myths peddled by climate change science deniers. A Brief History of the Earth's Climate is essential reading for everyone who is looking to understand what drives climate change, counter skeptics and deniers, and take action on the climate emergency. AWARDS SILVER | 2022 IPPY Awards - Science

A (Very) Short History of Life on Earth New Society Publishers

1964 Dr. Bernard says this is the true home of the flying saucers. the epoch-making significance of Adm. Byrd's flight for 1,700 miles into the North Polar opening leading to the hollow interior of the earth, the home of a Super Race who are the Creators.

Origins Random House

Welcome to the Real History of Earth. You will not find this material in your high school or college history classes. In fact, the so-called “powers that be” who appear to control the educational process on this planet definitely DO NOT want you to have this information. It is said that knowledge is power. The purpose of this book is to empower you to live an awakened life, full of creativity and compassion. Knowing how and why things are the way they are on Earth gives each of us the power to make effective changes, both within ourselves and the world. If you are a physicist, biologist, archaeologist, anthropologist or economist, this material will likely challenge your deepest and most cherished ideas of reality. Due to the world of the Internet, the ideas presented herein can be researched and investigated thoroughly, and the author encourages you to do so. This book explores several deep questions that have plagued humanity since time began, including such timeless classics as “Why is there so much suffering on Earth?” and “How do we break out of our self-imposed prison of negative thoughts and beliefs?” We will also answer the question of how we came to be on this small planet at the edge of a rather average galaxy, with our racial and ethnic mix, languages and cultural habits. Also, we will tread on some “sacred cows,” including the belief that humanity evolved from the ape, and the idea that this is the most advanced civilization that has existed on Earth (both incorrect assumptions). We urge you to keep an open mind while reading this book. Do not blindly accept or reject anything that is being said. Unless a mind is open, there is no way to attain greater knowledge and wisdom. Have you ever tried pouring liquid into a closed container? So, dear readers, fasten your seat belt and open the book for a wonderful ride!

Earth's Deep History Bloomsbury Publishing

The field of planetary biology and chemical evolution draws together experts in astronomy, paleobiology, biochemistry, and space science who work together to understand the evolution of living systems. This field has made exciting discoveries that shed light on how organic compounds came together to form self-replicating molecules-the origin of life. This volume updates that progress and offers recommendations on research programs-including an ambitious effort centered on Mars-to advance the field over the next 10 to 15 years. The book presents a wide range of data and research results on these and other issues: The biogenic elements and their interaction in the interstellar clouds and in solar nebulae. Early planetary environments and the conditions that lead to the origin of life. The evolution of cellular and multicellular life. The search for life outside the solar system. This volume will become required reading for anyone involved in the search for life's beginnings-including exobiologists, geoscientists, planetary scientists, and U.S. space and science policymakers.

It Started with a Big Bang Elsevier

Origins of Life on the Earth and in the Cosmos, Second Edition, suggests answers to the age-old questions of how life arose in the universe and how it might arise elsewhere. This thorough revision of a very successful text describes key events in the evolution of living systems, starting with the creation of an environment suitable for the origins of life. Whereas one may never be able to reconstruct the precise pathway that led to the origin of life on earth, one can certainly make some plausible reconstructions of it. Such discussions have greatly expanded our understanding of the principles of chemical evolution and how they compare and contrast with the principles of biological evolution. The text is strong on biochemistry and its recent applications to origins' research. Provides an excellent review of basic biochemistry an evolution Written in a clear, concise style for scientists, students, and readers interested in a scientific inquiry into the origins of life Written by an authority in the field, and brought fully up-to-date in light of new research Pulls together valuable information not found in a single source Organized and presented in a manner conductive for use in a college course Heavily illustrated to make difficult concepts concrete

Clay OUP Oxford

In the wake of the Second World War, internationalists identified science as both the cause of and the solution to world crisis.

Unless civilization learned to control the unprecedented powers science had unleashed, global catastrophe was imminent. But the internationalists found hope in the idea of world government. In The Postwar Origins of the Global Environment, Perrin Selcer argues that the metaphor of “Spaceship Earth”—the idea of the planet as a single interconnected system—exemplifies this moment, when a mix of anxiety and hope inspired visions of world community and the proliferation of international institutions. Selcer tells the story of how the United Nations built the international knowledge infrastructure that made the global-scale environment visible. Experts affiliated with UN agencies helped make the “global”—as in global population, global climate, and global economy—an object in need of governance. Selcer traces how UN programs such as UNESCO’s Arid Lands Project, the production of a soil map of the world, and plans for a global environmental-monitoring system fell short of utopian ambitions to cultivate world citizens but did produce an international community of experts with influential connections to national governments. He shows how events and personalities, cultures and ecologies, bureaucracies and ideologies, decolonization and the Cold War interacted to make global knowledge. A major contribution to global history, environmental history, and the history of development, this book relocates the origins of planetary environmentalism in the postwar politics of scale.

Science and Creationism Penguin

Origins of the Earth, Moon, and Life in the Solar System: An Interdisciplinary Approach presents state-of-the-art knowledge that is based on theories, experiments, observations, calculations, and analytical data from five astro-sciences, astronomy, astrobiology, astrogeology, astrophysics, and cosmochemistry. Beginning with the origin of elements, and moving on to cover the formation of the early Solar System, the giant impact model of the Earth and Moon, the oldest records of life, and the possibility of life on other planets in the Solar System, this interdisciplinary reference provides a complex understanding of the planets and the formation of life. Synthesizing concepts from all branches of astro-sciences into one, the book is a valuable reference for researchers in astrogeology, astrophysics, cosmochemistry, astrobiology, astronomy, and other space science fields, helping users better understand the intersection of these sciences. Includes extensive figures and tables to enhance key concepts Uses callout boxes throughout to provide context and deeper explanations Presents up-to-date information on the universe, stars, planets, moons, and life in the solar system Combines knowledge from the fields of astrogeology, astrophysics, cosmochemistry, astrobiology, and astronomy, helping readers understand the origins of the Earth, the moon, and life in our solar system

Faith, Reason, & Earth History University of Chicago Press

How would you go about rebuilding a technological society from scratch? If our technological society collapsed tomorrow what would be the one book you would want to press into the hands of the postapocalyptic survivors? What crucial knowledge would they need to survive in the immediate aftermath and to rebuild civilization as quickly as possible? Human knowledge is collective, distributed across the population. It has built on itself for centuries, becoming vast and increasingly specialized. Most of us are ignorant about the fundamental principles of the civilization that supports us, happily utilizing the latest—or even the most basic—technology without having the slightest idea of why it works or how it came to be. If you had to go back to absolute basics, like some sort of postcataclysmic Robinson Crusoe, would you know how to re-create an internal combustion engine, put together a microscope, get metals out of rock, or even how to produce food for yourself? Lewis Dartnell proposes that the key to preserving civilization in an apocalyptic scenario is to provide a quickstart guide, adapted to cataclysmic circumstances. The Knowledge describes many of the modern technologies we employ, but first it explains the fundamentals upon which they are built. Every piece of technology rests on an enormous support network of other technologies, all interlinked and mutually dependent. You can’t hope to build a radio, for example, without understanding how to acquire the raw materials it requires, as well as generate the electricity needed to run it. But Dartnell doesn’t just provide specific information for starting over; he also reveals the greatest invention of them all—the phenomenal knowledge-generating machine that is the scientific method itself. The Knowledge is a brilliantly original guide to the fundamentals of science and how it built our modern world.