

Introduction To Paleobiology And The Fossil Record

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Introduction to Paleobiology and the Fossil Record ...

Michael J. Benton University of Bristol, UK David A. T. Harper University of Copenhagen, Denmark

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Introduction to Paleobiology and the Fossil Record EPUB by Benton Michael J. Benton, Harper David A. T. Harper. Download - Immediately Available. Share. Description. This book presents a comprehensive overview of the science of the history of life. Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the ...

This book presents a comprehensive overview of the science of the history of life. Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the book introduces the latest techniques, from multivariate investigations of biogeography and biostratigraphy to engineering analysis of dinosaur skulls, and from homeobox genes to cladistics. All the well-known fossil groups are included, including microfossils and invertebrates, but an important feature is the thorough coverage of plants, vertebrates and trace fossils together with discussion of the origins of both life and the metazoans. All key related subjects are introduced, such as systematics, ecology, evolution and development, stratigraphy and their roles in understanding where life came from and how it evolved and diversified. Unique features of the book are the numerous case studies from current research that lead students to the primary literature, analytical and mathematical explanations and tools, together with associated problem sets and practical schedules for instructors and students. New to this edition The text and figures have been updated throughout to reflect current opinion on all aspects New case studies illustrate the chapters, drawn from a broad distribution internationally Chapters on Macroevolution, Form and Function, Mass extinctions, Origin of Life, and Origin of Metazoans have been entirely rewritten to reflect substantial advances in these topics There is a new focus on careers in paleobiology

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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

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

In the wake of the paleobiological revolution of the 1970s and 1980s, paleontologists continue to investigate far-reaching questions about how evolution works. Many of those questions have a philosophical dimension. How is macroevolution related to evolutionary changes within populations? Is evolutionary history contingent? How much can we know about the causes of evolutionary trends? How do paleontologists read the patterns in the fossil record to learn about the underlying evolutionary processes? Derek Turner explores these and other questions, introducing the reader to exciting recent work in the philosophy of paleontology and to theoretical issues including punctuated equilibria and species selection. He also critically examines some of the major accomplishments and arguments of paleontologists of the last 40 years.

The study of dinosaurs has been experiencing a remarkable renaissance over the past few decades. Scientific understanding of dinosaur anatomy, biology, and evolution has advanced to such a degree that paleontologists often know more about 100-million-year-old dinosaurs than many species of living organisms. This book provides a contemporary review of dinosaur science intended for students, researchers, and dinosaur enthusiasts. It reviews the latest knowledge on dinosaur anatomy and phylogeny, how dinosaurs functioned as living animals, and the grand narrative of dinosaur evolution across the Mesozoic. A particular focus is on the fossil evidence and explicit methods that allow paleontologists to study dinosaurs in rigorous detail. Scientific knowledge of dinosaur biology and evolution is shifting fast, and this book aims to summarize current understanding of dinosaur science in a technical, but accessible, style, supplemented with vivid photographs and illustrations. The Topics in Paleobiology Series is published in collaboration with the Palaeontological Association, and is edited by Professor Mike Benton, University of Bristol. Books in the series provide a summary of the current state of knowledge, a trusted route into the primary literature, and will act as pointers for future directions for research. As well as volumes on individual groups, the series will also deal with topics that have a cross-cutting relevance, such as the evolution of significant ecosystems, particular key times and events in the history of life, climate change, and the application of a new techniques such as molecular palaeontology. The books are written by leading international experts and will be pitched at a level suitable for advanced undergraduates, postgraduates, and researchers in both the paleontological and biological sciences. Additional resources for this book can be found at: <http://www.wiley.com/go/brusatte/dinosaurpaleobiology>.

Whether the fossil record should be read at face value or whether it presents a distorted view of the history of life is an argument seemingly as old as many fossils themselves. In the late 1700s, Georges Cuvier argued for a literal interpretation, but in the early 1800s, Charles Lyell's gradualist view of the earth's history required a more nuanced interpretation of that same record. To this day, the tension between literal and interpretive readings lies at the heart of paleontological research, influencing the way scientists view extinction patterns and their causes, ecosystem persistence and turnover, and the pattern of morphologic change and mode of speciation. With Stratigraphic Paleobiology, Mark E. Patzkowsky and Steven M. Holland present a critical framework for assessing the fossil record, one based on a modern understanding of the principles of sediment accumulation. Patzkowsky and Holland argue that the distribution of fossil taxa in time and space is controlled not only by processes of ecology, evolution, and environmental change, but also by the stratigraphic processes that govern where and when sediment that might contain fossils is deposited and preserved. The authors explore the exciting possibilities of stratigraphic paleobiology, and along the way demonstrate its great potential to answer some of the most critical questions about the history

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of life: How and why do environmental niches change over time? What is the tempo and mode of evolutionary change and what processes drive this change? How has the diversity of life changed through time, and what processes control this change? And, finally, what is the tempo and mode of change in ecosystems over time?

Palaeontology, a fundamental topic in geology and evolutionary biology, has undergone exciting and rapid change in recent years. Contemporary debates on mass extinctions and the origin of life have had profound implications for our understanding of how life evolved. Basic Palaeontology is a comprehensive and accessible introduction to palaeontology. With in-depth analysis of basic principles and all the main fossil groups, this fully illustrated text presents new and exciting research on the origin and history of life. The text focuses on traditional topics such as marine invertebrate palaeontology and biostratigraphy, but also provides unique and unparalleled taxonomic coverage from microfossils to plants and vertebrates. Key Features include: - Covers important recent developments in macroevolution and mass extinctions - A strong focus on a statistical and quantitative approach, emphasising the vital importance of both applications and theory - Full coverage of the evolution of vertebrates and plants - Over 600 highly detailed illustrations - An accessible format with extensive boxed material and bullet points Basic Palaeontology is essential reading for undergraduate students of geology, environmental science and biology, taking courses in palaeontology, palaeobiology, palaeoecology or evolution, and will also be of interest to all those who have an interest in the origin of life and human evolution. Michael J Benton is a Reader in the Department of Geology, University of Bristol, UK. David A T Harper is a Lecturer in Geology at the Department of Geology, University College Galway, Ireland.

Explains in a clear and concise manner the factors involved in the description and classification of fossils and the practical applications of paleontologic data

Bryozoa are among the most abundant yet least understood of phyla in the fossil record. These exclusively colonial animals can be traced back to the Ordovician as fossils and are common elements of sediments deposited in shallow marine environments. On occasion their calcareous skeletons are sufficiently numerous to produce bryozoan limestones. The potential of bryozoans in facies analysis, and their use in macroevolutionary studies, have both been widely recognised, but to date have been incompletely exploited. Bryozoan Paleobiology brings together the scattered research on living and fossil bryozoans in broad and profusely illustrated overview that will help students and researchers alike in understanding this fascinating group of animals. Beginning with the basics of bryozoan morphology, ecology and classification, the book progresses from the smallest scale of skeletal ultrastructure, to the largest of bryozoan distributions in time and space. On the way, topics such as the origin of zooidal polymorphism and macroevolutionary trends in colony forms are covered. Case studies illuminate these topics, and areas in which further research is particularly required are highlighted.

The fossil record of giant flightless birds extends back to the Late Cretaceous, more than 70 million years ago, but our understanding of these extinct birds is still incomplete. This is partly because the number of specimens available is sometimes limited, but also because widely different approaches have been used to study them, with sometimes contradictory results. This book summarizes the current knowledge of the paleobiology of seven groups of giant flightless birds: Dinornithiformes, Aepyornithiformes, Dromornithidae, Phorusrhacidae, Brontornithidae, Gastornithidae and Gargantuavis. The first chapter presents the global diversity of these birds and reviews the tools and methods used to study their paleobiology. Chapters 2 to 8 are each dedicated to one of the seven groups of extinct birds. Finally, a conclusion offers a global synthesis of the information presented in the book in an attempt to define a

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common evolutionary model. Focuses on the giant flightless birds that evolved independently in different parts of the world since the Cretaceous period
Covers a number of different families with different evolutionary histories, providing a source of interesting comparisons Provides emphasis on the palaeobiology of these birds, including their evolution, adaptations, mode of life, ecology and extinction

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