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The Ultimate Middle School Book Haul

All organisms and species are transitory, yet life endures. The origin, extinction, and evolution of species—interconnected in the web of life as "eternal ephemera"—are the concern of evolutionary biology. In this riveting work, renowned paleontologist Niles Eldredge follows leading thinkers as they have wrestled for more than two hundred years with the eternal skein of life composed of ephemeral beings, revitalizing evolutionary science with their own, more resilient findings. Eldredge begins in France with the naturalist Jean-Baptiste Lamarck, who in 1801 first framed the overarching question about the emergence of new species. The Italian geologist Giambattista Brocchi followed, bringing in geology and paleontology to expand the question. In 1825, at the University of Edinburgh, Robert Grant and Robert Jameson introduced the astounding ideas formulated by Lamarck and Brocchi to a young medical student named Charles Darwin. Who can doubt that Darwin left for his voyage on the Beagle in 1831 filled with thoughts about these daring new explanations for the "transmutation" of species. Eldredge revisits Darwin's early insights into evolution in South America and his later synthesis of knowledge into a theory of the origin of species. He then considers the ideas of more recent evolutionary thinkers, such as George Gaylord Simpson, Ernst Mayr, and Theodosius Dobzhansky, as well as the young and brash Niles Eldredge and Steven Jay Gould, who set science afire with their concept of punctuated equilibria. Filled with insights into evolutionary biology and told with a rich affection for the scientific arena, this book celebrates the organic, vital relationship between scientific thinking and its subjects.

The natural world is infinitely complex and hierarchically structured, with smaller units forming the components of larger systems: genes are components genomes, cells are building blocks of tissues and organs, individuals are members of populations, which, in turn, are parts of species. In the face of such awe inspiring complexity, scientists need tools like the hierarchy theory of evolution, which provides a theoretical framework and an interdisciplinary research program that aims to understand the way complex biological systems work and evolve. The multidisciplinary approach looks at the structure of the myriad intricate interactions across levels of organization that range from molecules to the biosphere. Evolutionary Theory: A Hierarchical Perspective provides an introduction to the theory, which is currently driving a great deal of research in bioinformatics and evolutionary theory. Written by a diverse and renowned group of contributors, and edited by the founder of Hierachy Theory Niles Eldredge, this work will help make transparent the fundamental patterns driving living sytems.

Ann's idea was simple. The information contained within the servers documented people's lives. Places they've been, things they've said and done. All stored as discrete data points in computer memory. Ann's work joined the dots between these data points a

Stephen Jay Gould (1941-2002) was one of the most prominent scientists of recent decades, a man whose expertise ranged from paleontology to evolutionary theory and the history of science. He was an unabashedly popular figure, attracting standing-room-only audiences to his lectures at Harvard and around the world. In his monthly Natural History columns and innumerable articles and books, Gould made evolution interesting in a way that hardly anyone—since the time of Darwin and Huxley—had been able to do. In Macroevolution, major themes of Gould's work are reassessed in light of new research by his contemporaries. The book includes original essays by such noted scholars as Niles Eldredge, Richard Forzey, and Lynn Margulis on heterochrony, disparity, and macroevolution, stasis and the dynamics of evolutionary change, and mass extinctions. Fourteen essays provide an expansive overview of contemporary evolutionary theory. Macroevolution is a unique tribute to Gould that will be a valuable educational resource for students, teachers, and anyone interested in the work of this scientific provocateur.

The literature of paleobiology is brimming with qualifiers and cautions about using species in the fossil record, or equating such species with those recognized among living organisms. Species and Speciation in the Fossil Record digs through this literature and surveys the recent research on species in paleobiology. In these pages, experts in the field examine what they think species are in their particular taxon of specialty or more generally in the fossil record. They also reflect on what the answers mean for thinking about species in macroevolution. The first step in this approach is an overview of the Modern Synthesis, and paleobiology s development of quantitative ways of documenting and analyzing variation with fossil assemblages. Following that, this volume s central chapters explore the challenges of recognizing and defining species from fossil specimens, and show how with careful interpretation and a clear species concept, fossil species may be sufficiently robust for meaningful paleobiological analyses. Tempo and mode of speciation over time are also explored, exhibiting how the concept of species, if more refined, can reveal enormous amounts about the interplay between species origins and extinction and local and global climate change."

Introduction: Why Extinction Matters -- The Meaning of Extinction: Catastrophe, Equilibrium, and Diversity -- Extinction in a Victorian Key -- Catastrophe and Modernity -- Extinction in the Shadow of the Bomb -- The Asteroid and the Dinosaur -- A Sixth Extinction? The Making of a Biodiversity Crisis -- Epilogue: Extinction in the Anthropocene.

Historical biogeography—the study of the history of species through both time and place—first convinced Charles Darwin of evolution. This field was so important to Darwin's initial theories and line of thinking that he said as much in the very first paragraph of On the Origin of Species (1859) and later in his autobiography. His methods included collecting mammalian fossils in South America clearly related to living forms, tracing the geographical distributions of living species across South America, and sampling peculiar fauna of the geologically young Galápagos Archipelago that showed evident affinities to South American forms. Over the years, Darwin collected other evidence in support of evolution, but his historical biogeographical arguments remained paramount, so much so that he devotes three full chapters to this topic in On the Origin of Species. Discussions of Darwin's landmark book too often give scant attention to this wealth of evidence, and we still do not fully appreciate its significance in Darwin's thinking. In Origins of Darwin's Evolution, J. David Archibald explores this lapse, showing how Darwin first came to the conclusion that, instead of various centers of creation, species had evolved in different regions throughout the world. He also shows that Darwin's other early passion—geology—proved a more elusive corroboration of evolution. On the Origin of Species has only one chapter dedicated to the rock and fossil record, as it then appeared too incomplete for Darwin's evidentiary standards. Carefully retracing Darwin's gathering of evidence and the evolution of his thinking, Origins of Darwin's Evolution achieves a new understanding of how Darwin crafted his transformative theory.

Charles Darwin: A Reference Guide to His Life and Works summarizes the life of Charles Darwin who is best known for his theory of evolution. He was a naturalist, a geologist, and a biologist and is one of the most influential figures in history.

Animal Locomotion: Physical Principles and Adaptations is a professional-level, state of the art review and reference summarizing the current understanding of macroscopic metazoan animal movement. The comparative biophysics, biomechanics and bioengineering of swimming, flying and terrestrial locomotion are placed in contemporary frameworks of biodiversity, evolutionary process, and modern research methods, including mathematical analysis. The intended primary audience is advanced-level students and researchers primarily interested in and trained in mathematics, physical sciences and engineering. Although not encyclopedic in its coverage, anyone interested in organismal biology, functional morphology, organ systems and ecological physiology, physiological ecology, molecular biology, molecular genetics and systems biology should find this book useful.

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