
Naturalist Edward O Wilson

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A Window on Eternity National Academies Press

Drawn from fragments of historical fact, Matthiessen's masterpiece brilliantly depicts the fortunes and misfortunes of Edgar J. Watson, a real-life entrepreneur and outlaw who appeared in the lawless Florida Everglades around the turn of the century.

The Poetic Species Vintage

"The Creation is a timely book about the survival of life on this planet, which E. O. Wilson demonstrates is more endangered than ever before. Drawing on his own personal experiences as a world-leading biologist,

he prophesies that at least half the species of plants and animals on Earth could either be gone or fated for early extinction by the end of our present century. Written in the form of an impassioned letter to a Southern Baptist pastor, The Creation demonstrates that science and religion need not be warring antagonists."--BOOK JACKET.

Killing Mister Watson JHU Press

Forming a twenty-first-century statement on Darwinian evolution, one shorn of "religious and political dogma," Edward O. Wilson offers a bold work of scientific thought and synthesis. Asserting that religious creeds and philosophical questions can be reduced to purely genetic and evolutionary components, and that the human body and mind have a physical base obedient to the laws of physics and chemistry, Genesis demonstrates that the only way for us to fully understand human behavior is to study the evolutionary histories of nonhuman species. Of these, Wilson demonstrates that at least seventeen—among them the African naked mole rat and the sponge-dwelling shrimp—have been found to have advanced societies based on altruism and cooperation. Whether writing about midges who "dance about like acrobats" or schools of anchovies who protectively

huddle “to appear like a gigantic fish,” or proposing that human society owes a debt of gratitude to “postmenopausal grandmothers” and “childless homosexuals,” *Genesis* is a pithy yet path-breaking work of evolutionary theory, braiding twenty-first-century scientific theory with the lyrical biological and humanistic observations for which Wilson is known.

Tales from the Ant World W. W. Norton & Company
CD-ROM contains high resolution digital images of most of the type species.

Sociobiology W. W. Norton & Company

Long considered one of the most provocative and demanding major works on human sociobiology, *Genes, Mind, and Culture* introduces the concept of gene-culture coevolution. It has been out of print for several years, and in this volume Lumsden and Wilson provide a much needed facsimile edition of their original work, together with a major review of progress in the discipline during the ensuing quarter century. They argue compellingly that human nature is neither arbitrary nor predetermined, and identify mechanisms that energize the upward translation from genes to culture. The authors also assess the properties of genetic evolution of mind within emergent cultural patterns. Lumsden and Wilson explore the rich and sophisticated data of developmental psychology and cognitive science in a fashion that, for the first time, aligns these disciplines with human sociobiology. The authors also draw on population genetics, cultural anthropology, and mathematical physics to set human sociobiology on a predictive base, and so trace the main steps that lead from the genes through human consciousness to culture. Contents: The Next Synthesis: 25 Years of Genes, Mind, and Culture The Primary Epigenetic Rules The Secondary Epigenetic Rules Gene-Culture Translation The Gene-Culture Adaptive Landscape The Coevolutionary Circuit The Biogeography of the Mind Gene-Culture Coevolution and

Social Theory Readership: For the biological and social scientists, as well as applied mathematicians, philosophers, and historians of science, the book will indeed interest and be accessible to researchers, academics and lecturers. Keywords: Genes; Genome; Mind; Culture; Sociobiology; Meme; Consilience; Holism; Consciousness; Development; Epigenesis; Epigenetic; Emergence; Social Physics; Evolution; Darwin; Nonlinear

Key Features: Presents a richly multidisciplinary subject matter that appeal to academic readers in the biological, social, and mathematical sciences, as well as in philosophy and the history of science Each chapter is organized in a way that non-mathematical readers can assess the key arguments and results while reserving the mathematical sections for future study Extensive use of diagrams and graphics supplement each chapter's text and mathematical developments A Glossary section makes the book's technical vocabulary instantly accessible at any point in the text

The Future of Life Harvard University Press

The remarkable story of how one of the most biologically diverse habitats in the world was destroyed, restored, and continues to evolve—with stunning, full-color photographs by two of the world’s best wildlife photographers. *A Window on Eternity* is a stunning book of splendid prose and gorgeous photography about one of the biologically richest places in Africa and perhaps in the world. Gorongosa National Park in Mozambique was nearly destroyed in a brutal civil war, then was reborn and is now evolving back to its original state. Edward O. Wilson’s personal, luminous description of the wonders of Gorongosa is beautifully complemented by Piotr Naskrecki’s extraordinary photographs of the park’s exquisite natural beauty. A bonus DVD of Academy Award – winning director Jessica Yu’s documentary, *The Guide*, is also included with the book. Wilson takes readers to the summit of Mount Gorongosa, sacred to the local people and the park’s vital watershed. From the forests of the mountain he brings us to the deep gorges on the edge of the Rift Valley, previously unexplored by biologists, to search for new species and assess

their ancient origins. He describes amazing animal encounters from huge colonies of agricultural termites to specialized raider ants that feed on them to giant spiders, a battle between an eagle and a black mamba, “ conversations ” with traumatized elephants that survived the slaughter of the park ’ s large animals, and more. He pleads for Gorongosa—and other wild places—to be allowed to exist and evolve in its timeless way uninterrupted into the future. As he examines the near destruction and rebirth of Gorongosa, Wilson analyzes the balance of nature, which, he observes, teeters on a razor ’ s edge. Loss of even a single species can have serious ramifications throughout an ecosystem, and yet we are carelessly destroying complex biodiverse ecosystems with unknown consequences. The wildlands in which these ecosystems flourish gave birth to humanity, and it is this natural world, still evolving, that may outlast us and become our legacy, our window on eternity.

Consilience National Geographic Books

It is widely understood that Charles Darwin ’ s theory of evolution completely revolutionized the study of biology. Yet, according to David Sloan Wilson, the Darwinian revolution won ’ t be truly complete until it is applied more broadly—to everything associated with the words “ human, ” “ culture, ” and “ policy. ” In a series of engaging and insightful examples—from the breeding of hens to the timing of cataract surgeries to the organization of an automobile plant—Wilson shows how an evolutionary worldview provides a practical tool kit for understanding not only genetic evolution but also the fast-paced changes that are having an impact on our world and ourselves. What emerges is an incredibly empowering argument: If we can become wise managers of evolutionary processes, we can solve the problems of our age at all scales—from the efficacy of our groups to our well-being as individuals to our stewardship of the planet Earth.

Half-Earth: Our Planet's Fight for Life Vintage

Featuring beautiful full-color photographs by two of the world's best wildlife photographers, a world-renowned biologist and Pulitzer

Prize-winner tells the extraordinary story of how Gorongosa National Park in Mozambique was destroyed, restored and continues to evolve.

Why We Are Here Liveright Publishing

This classic by the distinguished Harvard entomologist tells how life on earth evolved and became diverse, and now, how diversity and life are endangered by us, truly. While Wilson contributed a great deal to environmental ethics by calling for the preservation of whole ecosystems rather than individual species, his environmentalism appears too anthropocentric: "We should judge every scrap of biodiversity as priceless while we learn to use it and come to understand what it means to humanity." And: "Signals abound that the loss of life's diversity endangers not just the body but the spirit." This reprint of the 1992 Belknap Press publication contains a new foreword. Annotation copyrighted by Book News, Inc., Portland, OR

Caste and Ecology in the Social Insects Harvard University Press

The two-time Pulitzer Prize – winning biologist delivers "an astonishing literary achievement" (Anthony Gottlieb, *The Economist*). Winner of the 2010 Heartland Prize, Anthill follows the thrilling adventures of a modern-day Huck Finn, enthralled with the "strange, beautiful, and elegant" world of his native Nokobee County. But as developers begin to threaten the endangered marshlands around which he lives, the book ’ s hero decides to take decisive action. Edward O. Wilson—the world ’ s greatest living biologist—elegantly balances glimpses of science with the gripping saga of a boy determined to save the world from its most savage ecological predator: man himself.

A Natural History of Love Island Press

In this pathbreaking and far-reaching work George Oster and Edward Wilson provide the first fully developed theory of caste evolution among the social insects. Furthermore, in studying the effects of natural selection in generally increasing the insects' ergonomic efficiency, they go beyond the concentration of previous researchers on the physiological mechanisms of the insects and turn our attention instead to the scale and efficiency of the insects' division of labor. Recognizing that the efficiency of the insect colony is based on a complex fitting

of the division of labor to many simultaneous needs, including those imposed by the distribution of resources and enemies around the nest, Professors Oster and Wilson are able to construct a series of mathematical models to characterize the agents of natural selection that promote particular caste systems. The social insects play a key role in the subject of sociobiology because their social organization is so rigid and can be related to genetic evolution. Because of this important consideration, the authors' work has consequences not only for entomology but also for general evolutionary theory.

Scientist Liveright Publishing

From the Arctic to South Africa - one finds them everywhere: Ants.

Making up nearly 15% of the entire terrestrial animal biomass, ants are impressive not only in quantitative terms, they also fascinate by their highly organized and complex social system. Their caste system, the division of labor, the origin of altruistic behavior and the complex forms of chemical communication makes them the most interesting group of social organisms and the main subject for sociobiologists. Not least is their ecological importance: Ants are the premier soil turners, channelers of energy and dominatrices of the insect fauna. TOC: The importance of ants.- Classification and origins.- The colony life cycle.- Altruism and the origin of the worker caste.- Colony odor and kin recognition.- Queen numbers and domination.- Communication.- Caste and division of labor.- Social homeostasis and flexibility.- Foraging and territorial strategies.- The organization of species communities.- Symbioses among ant species.- Symbioses with other animals.- Interaction with plants.- The specialized predators.- The army ants.- The fungus growers.- The harvesters.- The weaver ants.- Collecting and culturing ants.- Glossary.- Bibliography.- Index.

The Origins of Creativity Harvard University Press

"A dazzling journey across the sciences and humanities in search of deep laws to unite them." --The Wall Street Journal One of our

greatest living scientists--and the winner of two Pulitzer Prizes for *On Human Nature* and *The Ants*--gives us a work of visionary importance that may be the crowning achievement of his career. In *Consilience* (a word that originally meant "jumping together"), Edward O. Wilson renews the Enlightenment's search for a unified theory of knowledge in disciplines that range from physics to biology, the social sciences and the humanities. Using the natural sciences as his model, Wilson forges dramatic links between fields. He explores the chemistry of the mind and the genetic bases of culture. He postulates the biological principles underlying works of art from cave-drawings to *Lolita*. Presenting the latest findings in prose of wonderful clarity and oratorical eloquence, and synthesizing it into a dazzling whole, *Consilience* is science in the path-clearing traditions of Newton, Einstein, and Richard Feynman.

The Meaning of Human Existence Island Press

Edward O. Wilson—winner of two Pulitzer prizes, champion of biodiversity, and Faculty Emeritus at Harvard University—is arguably one of the most important thinkers of the twentieth century. Yet his celebrated career began not with an elite education but from an insatiable curiosity about the natural world and drive to explore its mysteries. Called “one of the finest scientific memoirs ever written” by the *Los Angeles Times*, *Naturalist* is a wise and personal account of Wilson’s growth as a scientist and the evolution of the fields he helped define. This 25th Anniversary Edition celebrates *Naturalist* as a modern classic. Wilson traces the trajectory of his life—from a childhood spent exploring the Gulf Coast of Alabama and Florida to life as a tenured professor at Harvard—detailing how his youthful fascination with nature blossomed into a lifelong calling. With humor and insight, Wilson recounts his days as a student at the University of Alabama and decades at Harvard

University, where he has achieved renown as both teacher and researcher. As the narrative of Wilson's life unfolds, the reader is treated to an inside look at the origin and development of ideas that guide today's biological research. Theories that are now widely accepted in the scientific world were once untested hypotheses emerging from one man's wide-ranging studies. At once practical and lyric, *Naturalist* provides fascinating insights into the making of a scientist, and a valuable look at some of the most thought-provoking ideas of our time. As relevant today as when it was first published, *Naturalist* is a poignant reminder of the deeply human side of science and an inspiring call to celebrate the little things of the world

Anthill: A Novel W. W. Norton & Company

The bestselling author of *A Natural History of the Senses* now explores the allure of adultery, the appeal of aphrodisiacs, and the cult of the kiss. Enchantingly written and stunningly informed, this "audaciously brilliant romp through the world of romantic love" (*Washington Post Book World*) is the next best thing to love itself.

Conserving Earth's Biodiversity Vintage

New York Times Bestseller and Notable Book of the Year A Kirkus Reviews Book of the Year (Nonfiction) Longlisted for the Andrew Carnegie Medal for Excellence (Nonfiction) From the most celebrated heir to Darwin comes a groundbreaking book on evolution, the summa work of Edward O. Wilson's legendary career. Sparking vigorous debate in the sciences, *The Social Conquest of Earth* upends "the famous theory that evolution naturally encourages creatures to put family first" (*Discover*). Refashioning the story of human evolution, Wilson draws on his remarkable knowledge of biology and social behavior to demonstrate that group selection, not kin selection, is the premier driving force of human evolution. In a work that James D. Watson calls "a monumental exploration of the biological origins of the human condition," Wilson explains how our innate drive to belong to a group is both a "great

blessing and a terrible curse" (*Smithsonian*). Demonstrating that the sources of morality, religion, and the creative arts are fundamentally biological in nature, the renowned Harvard University biologist presents us with the clearest explanation ever produced as to the origin of the human condition and why it resulted in our domination of the Earth's biosphere.

This View of Life Island Press

National Book Award Finalist. How did humanity originate and why does a species like ours exist on this planet? Do we have a special place, even a destiny in the universe? Where are we going, and perhaps, the most difficult question of all, "Why?" In *The Meaning of Human Existence*, his most philosophical work to date, Pulitzer Prize – winning biologist Edward O. Wilson grapples with these and other existential questions, examining what makes human beings supremely different from all other species. Searching for meaning in what Nietzsche once called "the rainbow colors" around the outer edges of knowledge and imagination, Wilson takes his readers on a journey, in the process bridging science and philosophy to create a twenty-first-century treatise on human existence—from our earliest inception to a provocative look at what the future of mankind portends. Continuing his groundbreaking examination of our "Anthropocene Epoch," which he began with *The Social Conquest of Earth*, described by the *New York Times* as "a sweeping account of the human rise to domination of the biosphere," here Wilson posits that we, as a species, now know enough about the universe and ourselves that we can begin to approach questions about our place in the cosmos and the meaning of intelligent life in a systematic, indeed, in a testable way. Once criticized for a purely mechanistic view of human life and an overreliance on genetic predetermination, Wilson presents in *The Meaning of Human Existence* his most expansive and advanced theories on the sovereignty of human life, recognizing that, even though the human and the spider

evolved similarly, the poet's sonnet is wholly different from the spider's web. Whether attempting to explicate "The Riddle of the Human Species," "Free Will," or "Religion"; warning of "The Collapse of Biodiversity"; or even creating a plausible "Portrait of E.T.," Wilson does indeed believe that humanity holds a special position in the known universe. The human epoch that began in biological evolution and passed into pre-, then recorded, history is now more than ever before in our hands. Yet alarmed that we are about to abandon natural selection by redesigning biology and human nature as we wish them, Wilson soberly concludes that advances in science and technology bring us our greatest moral dilemma since God stayed the hand of Abraham.

The Ants Vintage

A landmark collected edition of the Pulitzer Prize-winning author and world-renowned biologist, illuminating the marvels of biodiversity in a time of climate crisis and mass extinction. Library of America presents three environmental classics from two-time Pulitzer Prize-winner E. O. Wilson, a masterful writer-scientist whose graceful prose is equal to his groundbreaking discoveries. These books illuminate the evolution and complex beauty of our imperiled ecosystems and the flora, fauna, and civilization they sustain, even as they reveal the personal evolution of one of the greatest scientific minds of our age. Here are the lyrical, thought-provoking essays of *Biophilia*, a field biologist's reflections on the manifold meanings of wilderness. Here too is his magisterial, dazzlingly informative *Diversity of Life*: a sweeping tour of global biodiversity and a prophetic call to preserve the planet, filled on every page with little-known creatures, unique habitats, and fascinating ecological detail. Also included is Wilson's moving autobiography, *Naturalist*. Following him from his outdoor boyhood in Alabama and the Florida panhandle to the rainforests of Surinam and New Guinea--from his first discoveries as a young ant specialist to his emergence as a champion of conservation and rewilding--it rounds out a collection that will inspire wonder, curiosity, and love for a natural world now rapidly disappearing. Thirty-two pages of photographs and numerous illustrations accompany these works, which are introduced by David Quammen,

one of America's leading science and nature writers.

Biodiversity W. W. Norton & Company

Forgotten Grasslands of the South is the study of one of the biologically richest and most endangered ecosystems in North America. In a seamless blend of science and personal observation, renowned ecologist Reed Noss explains the natural history of southern grasslands, their origin and history, and the physical determinants of grassland distribution, including ecology, soils, landform, and hydrology. In addition to offering fascinating new information about these little-studied ecosystems, Noss demonstrates how natural history is central to the practice of conservation. Although theory and experimentation have recently dominated the field of ecology, ecologists are coming to realize how these distinct approaches are not divergent but complementary, and that pursuing them together can bring greater knowledge and understanding of how the natural world works and how we can best conserve it. This long-awaited work sets a new standard for scientific literature and is essential reading for those who study and work to conserve the grasslands of the South as well as for everyone who is fascinated by the natural world.

Biophilia National Geographic Books

Edward O. Wilson -- University Professor at Harvard, winner of two Pulitzer prizes, eloquent champion of biodiversity -- is arguably one of the most important thinkers of the twentieth century. His career represents both a blueprint and a challenge to those who seek to explore the frontiers of scientific understanding. Yet, until now, little has been told of his life and of the important events that have shaped his thought. In *Naturalist*, Wilson describes for the first time both his

growth as a scientist and the evolution of the science he has helped define. He traces the trajectory of his life -- from a childhood spent exploring the Gulf Coast of Alabama and Florida to life as a tenured professor at Harvard -- detailing how his youthful fascination with nature blossomed into a lifelong calling. He recounts with drama and wit the adventures of his days as a student at the University of Alabama and his four decades at Harvard University, where he has achieved renown as both teacher and researcher. As the narrative of Wilson's life unfolds, the reader is treated to an inside look at the origin and development of ideas that guide today's biological research. Theories that are now widely accepted in the scientific world were once untested hypotheses emerging from one man's broad-gauged studies. Throughout *Naturalist*, we see Wilson's mind and energies constantly striving to help establish many of the central principles of the field of evolutionary biology. The story of Wilson's life provides fascinating insights into the making of a scientist, and a valuable look at some of the most thought-provoking ideas of our time.