

RICHARD DAWKINS

THE EXTENDED PHENOTYPE

WITH AN AFTERWORD BY DANIEL DENNETT



THE LONG REACH OF THE GENE

The Extended Phenotype The Long Reach Of The Gene

**Andrea Altobrando, Pierfrancesco
Biasetti**



The Extended Phenotype The Long Reach Of The Gene:

The Extended Phenotype Richard Dawkins, 1999 In this influential and controversial book that has become a classic in popular science writing Dawkins furthers his fascinating look at the evolution of life and natural selection The Extended Phenotype Richard Dawkins, 1999 **The Extended Phenotype** Richard Dawkins, 2016-09-14 In *The Selfish Gene* Richard Dawkins crystallized the gene's eye view of evolution developed by W D Hamilton and others The book provoked widespread and heated debate Written in part as a response *The Extended Phenotype* gave a deeper clarification of the central concept of the gene as the unit of selection but it did much more besides In it Dawkins extended the gene's eye view to argue that the genes that sit within an organism have an influence that reaches out beyond the visible traits in that body the phenotype to the wider environment which can include other individuals So for instance the genes of the beaver drive it to gather twigs to produce the substantial physical structure of a dam and the genes of the cuckoo chick produce effects that manipulate the behaviour of the host bird making it nurture the intruder as one of its own This notion of the extended phenotype has proved to be highly influential in the way we understand evolution and the natural world It represents a key scientific contribution to evolutionary biology and it continues to play an important role in research in the life sciences *The Extended Phenotype* is a conceptually deep book that forms important reading for biologists and students But Dawkins' clear exposition is accessible to all who are prepared to put in a little effort Oxford Landmark Science books are must read classics of modern science writing which have crystallized big ideas and shaped the way we think **Being as Communion** William A. Dembski, 2016-04-15 For a thing to be real it must be able to communicate with other things If this is so then the problem of being receives a straightforward resolution to be is to be in communion So the fundamental science indeed the science that needs to underwrite all other sciences is a theory of communication Within such a theory of communication the proper object of study becomes not isolated particles but the information that passes between entities In *Being as Communion* philosopher and mathematician William Dembski provides a non technical overview of his work on information Dembski attempts to make good on the promise of John Wheeler Paul Davies and others that information is poised to replace matter as the primary stuff of reality With profound implications for theology and metaphysics *Being as Communion* develops a relational ontology that is at once congenial to science and open to teleology in nature All those interested in the intersections of theology philosophy and science should read this book **Social Bonding and Nurture Kinship** Maximilian Holland, 2012-10-26 Resolving a decades long divide between what are often held to be incommensurate paradigms *Social Bonding and Nurture Kinship* unites cultural and biological approaches to social life and kinship The synthesis is non reductive respecting the core tenets of both paradigms and also incorporates psychological attachment theory into the account Praised by adherents of both perspectives the work provides a thorough survey of the theoretical debates and empirical findings across a wide array of disciplines providing students of social behaviour and kinship with a rich and comprehensive resource This work is a

powerful example of how social and physical sciences can unite on equal terms without the danger of one being subsumed by the other Both approaches emerge stronger as a result Scholarly Reviews A landmark in the field of evolutionary biology which places genetic determinism in the correct perspective Folia Primatologica Journal I will be strongly recommending this book to all of my advanced undergraduates masters and PhD students as well as to my colleagues Not only does it help to resolve debates that have run for many years but it is also an outstanding example of what can be achieved by immersing oneself in literature from different fields while retaining an intellectual openness and exercising incisive analysis a shining example of what can be achieved when excellent scholars engage fully across disciplinary boundaries Acta Ethologica Journal Maximilian Holland gets to the heart of the matter If he had been in the debate in the 1980s then a lot of subsequent confusion could have been avoided Robin Fox Emeritus Professor of Anthropology Rutgers NAS Member Max Holland has demonstrated extraordinarily thorough scholarship in his exhaustive review of the often contentious discussions of kinship He has produced a balanced synthesis melding the two approaches exemplified in the biological and sociocultural behavioral positions This should be the definitive word on the subject Irwin Bernstein Distinguished Research Professor of Primatology Georgia A brilliant discussion of the relationship between kinship and social bonding as understood in evolutionary biology and in sociocultural anthropology Kirk Endicott Emeritus Professor of Anthropology Dartmouth His synthesis is lucid and effective Holland has produced a significant work of scholarship that will be of interest to a wide swath of the anthropological community Critique of Anthropology Journal A tremendously useful resource for students of kinship in anthropology psychology and biology who are interested in looking beyond the confines of their own discipline highly relevant for anyone interested in this exciting field Social Anthropology Journal Max Holland has provided a wide ranging and deeply probing analysis of the influence of genetic relatedness and social context on human kinship He argues that while genetic relatedness may play a role in the evolution of social behavior it does not determine the forms of such behavior His discussion is exemplary for its thoroughness and should inspire more nuanced ventures in applying Darwinian approaches to sociocultural anthropology Philip Kitcher John Dewey Professor of Philosophy Colombia Fellow of the American Academy of Arts and Sciences Unlike many commentators who have tackled kinship in the context of biology Holland takes culture seriously and deals fairly with Schneider s arguments This book helps to untangle a long standing disciplinary muddle Richard Feinberg Professor of Anthropology Kent State

Missing the Revolution Jerome H. Barkow, 2006 The naturalizing perspective of Darwinian thought has become one of the major intellectual currents of our time pervading contemporary understandings of human nature and society Unfortunately many social scientists in sociology psychology and sociocultural anthropology have failed to engage with it Barkow asks his fellow social scientists to put aside their all too common preconceptions and stereotypes of the biological and to consider a powerful argument that is far different from that of those who once invoked a vocabulary of genes and Darwin as a justification for genocide He argues that the theoretical perspective that has been so

successful when applied to the behavior of every other animal species can be applied just as successfully to our own and that the real debate is about how to apply it

BOOK JACKET *Organism and Environment* Sonia E. Sultan, 2015-09-10 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments *Organism and Environment* is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields Natural Born Monads Andrea Altobrando, Pierfrancesco Biasetti, 2020-10-12 We are still looking for a satisfactory definition of what makes an individual being a human individual The understanding of human beings in terms of organism does not seem to be satisfactory because of its reductionistic flavor It satisfies our need for autonomy and benefits our lives thanks to its medical applications but it disappoints our needs for conscious and free self determination For similar reasons i e because of its anti libertarian tone an organicistic understanding of the relationship between individual and society has also been rejected although no truly satisfactory alternative for harmonizing individual and social wellness has been put forth Thus a reassessment of the very concepts of individual and organism is needed In this book the authors present a specific line of thought which started with Leibniz concept of monad in 17th century continued through Kant and Hegel and as a result reached the first Eastern country to attempt to assimilate as well as confront with Western philosophy and sciences i e Japan The line of thought we are tracing has gone on to become one the main voices in current debates in the philosophy of biology as well as philosophical anthropology and social philosophy As a whole the volume offers a both historical and systematic account of one specific understanding of individuals and their environment which tries to put together its natural embedding as well as its dialectical nature Such a historical systematic map will also allow to better evaluate how life sciences impact our view of our individual lives of human activities of institutions politics and finally of humankind in general D. G. Leahy and the Thinking Now Occurring Lissa McCullough, Elliot R. Wolfson, 2021-09-01 This book offers a critical introduction to the work of American philosopher D G Leahy 1937 2014 Leahy s fundamental thinking can be characterized as an absolute creativity in which all creating is live a happening occurring now that manifests a supersaturated polyontological actuality that is essentially created by the logic that characterizes it Leahy leaves behind the categorial presuppositions of modern thought eclipsing both Cartesian and Hegelian subjectivities and introducing instead an essentially new form of thinking

founded in a nondual logic of creation The new thinking delineates the absolute unicity of existence as a creative interactivity beyond all traditional dichotomies such as one vs many unity vs plurality identity vs change a fully digitized actuality that is nothing but newness which inherently implies nothing but change Through this new form of thinking change itself is revealed to be the very essence of reality and mind Any reader looking for a quantum leap beyond the thrall of modern and postmodern fixations is invited to hear and apprehend this new thinking that refuses to be conditioned by paradigms categories species genera walls bridges boundaries or abstractions an essentially free thinking that embodies creative novelty itself

The Gene's-Eye View of Evolution J. Arvid Ågren, 2021 The central aim of this accessible book is to show how the gene's eye view differs from the traditional organismal account of evolution trace its historical origins clarify typical misunderstandings and by using examples from contemporary experimental work show why so many evolutionary biologists still consider it an indispensable heuristic

Darwinizing Gaia W. Ford Doolittle, 2024-12-03 A reinterpretation of James Lovelock's Gaia Hypothesis through the lens of Darwinian natural selection and multispecies community evolution First conceived in the 1970s James Lovelock's Gaia Hypothesis proposed that living organisms developed in tandem with their inorganic surroundings forming a complex self-regulating system Today most evolutionary biologists consider the theory problematic In *Darwinizing Gaia* W Ford Doolittle one of evolutionary and molecular biology's most prestigious thinkers reformulates what evolution by natural selection is while legitimizing the controversial Gaia Hypothesis As the first book attempting to reconcile Gaia with Darwinian thinking and the first on persistence based evolution Doolittle's clear innovative position broadens evolutionary theory by offering potential remedies for Gaia's theoretical challenges Unquestionably the current polycrisis is the most complex that *Homo sapiens* has ever faced and this book can help overcome the widespread belief that evolutionary biologists don't believe Lovelock Written in the tradition of Richard Dawkins's *The Selfish Gene* *Darwinizing Gaia* will appeal to students evolutionary scientists philosophers and microbiologists as well as environmentalists seeking to understand the Earth as a system at a time when climate change has drawn our planet's structure and function into sharp relief

God and Gaia Michael S Northcott, 2022-12-22 *God and Gaia* explores the overlap between traditional religious cosmologies and the scientific Gaia theory of James Lovelock It argues that a Gaian approach to the ecological crisis involves rebalancing human and more than human influences on Earth by reviving the ecological agency of local and indigenous human communities and of nonhuman beings Present day human ecological influences on Earth have been growing at pace since the Scientific and Industrial Revolutions when modern humans adopted a machine cosmology in which humans are the sole intelligent agency The resultant imbalance between human and earthly agencies is degrading the species diversity of ecosystems causing local climate changes and threatens to destabilise the Earth as a system Across eight chapters this ambitious text engages with traditional cosmologies from the Indian Vedas and classical Greece to Medieval Christianity with case material from Southeast Asia Southern Africa and Great Britain It discusses concepts such as deep

time and ancestral time the ethics of genetic engineering of foods and viruses and holistic ecological management Northcott argues that an ontological turn that honours the differential agency of indigenous humans and other kind and that draws on sacred traditions will make it is possible to repair the destabilising impacts of contemporary human activities on the Earth System and its constituent ecosystems This book will be of considerable interest to students and scholars of the environmental humanities history and cultural and religious studies The New Celebrity Scientists Declan Fahy,2015-03-06 A new cultural icon strode the world stage at the turn of the twenty first century the celebrity scientist as comfortable in Vanity Fair and Vogue as Smithsonian Declan Fahy profiles eight of these eloquent controversial and compelling sellers of science to investigate how they achieved celebrity in the United States and internationally and explores how their ideas influence our understanding of the world Fahy traces the career trajectories of Richard Dawkins Stephen Hawking Steven Pinker Neil deGrasse Tyson Brian Greene Stephen Jay Gould Susan Greenfield and James Lovelock He demonstrates how each scientist embraced the power of promotion and popularization to stimulate thinking impact policy influence research drive controversies and mobilize social movements He also considers critical claims that they speak beyond their expertise and for personal gain The result is a fascinating look into how celebrity scientists help determine what it means to be human the nature of reality and how to prepare for society s uncertain future *Cultural Evolution* Kate Distin,2011 Expounds a theory of cultural evolution and shows how it can help us to understand the development of human culture *The Genetic Lottery* Kathryn Paige Harden,2022-10-11 A provocative and timely case for how the science of genetics can help create a more just and equal society In recent years scientists like Kathryn Paige Harden have shown that DNA makes us different in our personalities and in our health and in ways that matter for educational and economic success in our current society In *The Genetic Lottery* Harden introduces readers to the latest genetic science dismantling dangerous ideas about racial superiority and challenging us to grapple with what equality really means in a world where people are born different Weaving together personal stories with scientific evidence Harden shows why our refusal to recognize the power of DNA perpetuates the myth of meritocracy and argues that we must acknowledge the role of genetic luck if we are ever to create a fair society Reclaiming genetic science from the legacy of eugenics this groundbreaking book offers a bold new vision of society where everyone thrives regardless of how one fares in the genetic lottery **The New Atheism** Victor J. Stenger,2009-12-04 In recent years a number of bestselling books have forcefully argued that belief in God can no longer be defended on rational or empirical grounds and that the scientific worldview has rendered obsolete the traditional beliefs held by Christianity Judaism and Islam The authors of these books Richard Dawkins Daniel Dennett Sam Harris Christopher Hitchens and Victor J Stenger have come to be known as the New Atheists Predictably their works have been controversial and attracted a good deal of critical reaction In this new book Victor J Stenger whose *God The Failed Hypothesis* was on the New York Times bestseller list in 2007 reviews and expands upon the principles of New Atheism and answers many of its

critics He demonstrates in detail that naturalism the view that all of reality is reducible to matter and nothing else is sufficient to explain everything we observe in the universe from the most distant galaxies to the inner workings of the brain that result in the phenomenon of mind Stenger disputes the claim of many critics that the question of whether God exists is beyond the ken of science On the contrary he argues that absence of evidence for God is indeed evidence of absence when the evidence should be there and is not Turning from scientific to historical evidence Stenger then points out the many examples of evil perpetrated in the name of religion He also notes that the Bible which is still taken to be divine revelation by millions fails as a basis for morality and is unable to account for the problem of unnecessary suffering throughout the world Finally he discusses the teachings of ancient nontheist sages such as Buddha Lao Tzu and Confucius whose guidelines for coping with the problems of life and death did not depend upon a supernatural metaphysics Stenger argues that this way of nature is far superior to the traditional supernatural monotheisms which history shows can lead to a host of evils The New Atheism is a well argued defense of the atheist position and a strong rebuttal of its critics

The Cambridge Handbook of Evolutionary Perspectives on Sexual Psychology: Volume 1, Foundations Todd K. Shackelford, 2022-07-21 The interface of sexual behavior and evolutionary psychology is a rapidly growing domain rich in psychological theories and data as well as controversies and applications With nearly eighty chapters by leading researchers from around the world and combining theoretical and empirical perspectives The Cambridge Handbook of Evolutionary Perspectives on Sexual Psychology is the most comprehensive and up to date reference work in the field Providing a broad yet in depth overview of the various evolutionary principles that influence all types of sexual behaviors the handbook takes an inclusive approach that draws on a number of disciplines and covers nonhuman and human psychology It is an essential resource for both established researchers and students in psychology biology anthropology medicine and criminology among other fields Volume 1 Foundations of Evolutionary Perspectives on Sexual Psychology addresses foundational theories and methodological approaches

Memetics and Evolutionary Economics Michael P. Schlaile, 2020-12-21 This book explores the question of whether and how meme theory or memetics can be fruitfully utilized in evolutionary economics and proposes an approach known as economemetics which is a combination of meme theory and complexity theory that has the potential to combat the fragmentation of evolutionary economics while re connecting the field with cultural evolutionary theory By studying the intersection of cultural and economic evolution complexity economics computational economics and network science the authors establish a connection between memetics and evolutionary economics at different levels of investigation The book first demonstrates how a memetic approach to economic evolution can help to reveal links and build bridges between different but complementary concepts in evolutionary economics Secondly it shows how organizational memetics can help to capture the complexity of organizational culture using meme mapping Thirdly it presents an agent based simulation model of knowledge diffusion and assimilation in innovation networks from a memetic perspective The authors then use agent based

modeling and social network analysis to evaluate the diffusion pattern of the Ice Bucket Challenge as an example of a viral meme Lastly the book discusses the central issues of agency creativity and normativity in the context of econometrics and suggests promising avenues for further research *Homesickness* Carlos Rojas,2015-04-06 Carlos Rojas focuses on the trope of homesickness in China discomfort caused not by a longing for home but by excessive proximity to it This inverse homesickness marks a process of movement away from the home conceived of as spaces associated with the nation family and individual body and gives rise to the possibility of long term health **Shakespeare and Ecocritical Theory** Gabriel Egan,2015-10-22 Combining the latest scientific and philosophical understanding of humankind s place in the world with interpretative methods derived from other politically inflected literary criticism ecocriticism is providing new insights into literary works both ancient and modern With case study analyses of the tragedies comedies histories and late romances this book is a wide ranging introduction to reading Shakespeare in the light of contemporary ecocritical theory

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