

Evolution as Entropy: Toward a Unified Theory of Biology (Science & Its Conceptual Foundations)

Brooks

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Evolution As Entropy Toward A Unified Theory Of Biology

Benjamin B. Lichtenstein



Evolution As Entropy Toward A Unified Theory Of Biology:

Evolution As Entropy Daniel R. Brooks, E. O. Wiley, 1988-10-15 This second edition in just two years offers a considerably revised second chapter in which information behavior replaces analogies to purely physical systems as well as practical applications of the authors theory Attention is also given to a hierarchical theory of ecosystem behavior taking note of constraints on local ecosystem members result

Agricultural Biocatalysis Peter Jeschke, Evgeni B. Starikov, 2022-12-22 Compiles the recent agricultural biocatalysis research results by interdisciplinary teams from international institutes for chemistry biochemistry biotechnology and materials and chemical engineering Investigating important agricultural biocatalytic topics related to biochemical conversions or bioremediation modern biological and chemical applications Covers the research on biosynthesis biocatalysis and photosynthesis aspects for use in agro chemistry including nano biocatalytic processing atrazine toxicity and theoretical studies in biocatalysis and biological processes

The Major Metaphors of Evolution Salvatore J. Agosta, Daniel R. Brooks, 2020-08-29 This book presents a unified evolutionary framework based on three sets of metaphors that will help to consolidate discussions on evolutionary transitions Evolution is the unifying principle of life making identifying ways to apply evolutionary principles to tackle existence threatening crises such as climate change crucial A more cohesive evolutionary framework will further the discussions in this regard and also accelerate the process itself This book lays out a framework based on three dualistic classes of metaphors time space and conflict resolution Evolutionary transitions theory shows how metaphors can help us understand selective diversification as Darwin described with his tree of life Moreover the recently proposed Stockholm paradigm demonstrates how metaphors can help shed light on the emergence of complex ecosystems that Darwin highlighted with his tangled bank metaphor Taken together these ideas offer proactive measures for coping with existential crises for humanity such as climate change The book will appeal to biologists philosophers and historians alike

Evolutionary Systems G. Vijver, Stanley N. Salthe, M. Delpo, 2013-04-17 The three well known revolutions of the past centuries the Copernican the Darwinian and the Freudian each in their own way had a deflating and mechanizing effect on the position of humans in nature They opened up a richness of disillusion earth acquired a more modest place in the universe the human body and mind became products of a long material evolutionary history and human reason instead of being the central immaterial locus of understanding was admitted into the theater of discourse only as a materialized and frequently out of control actor Is there something objectionable to this picture Formulated as such probably not Why should we resist the idea that we are in certain ways and to some degree physically biologically or psychically determined Why refuse to acknowledge the fact that we are materially situated in an ever evolving world Why deny that the ways of inscription traces of past events and processes are co determinative of further evolutionary pathways Why minimize the idea that each intervention of each natural being is temporally and materially situated and has as such the inevitable consequence of changing the world The point is however that there are many more or less radically

different ways to consider the mechanization of man and nature There are in particular many ways to get the message of material and evolutionary determination as well as many levels at which this determination can be thought of as relevant or irrelevant

Evolutionary Theory Niles Eldredge, Telmo Pievani, Emanuele Serrelli, Ilya Tëmkin, 2016-09-23 The natural world is infinitely complex and hierarchically structured with smaller units forming the components of progressively larger systems molecules make up cells cells comprise tissues and organs that are in turn parts of individual organisms which are united into populations and integrated into yet more encompassing ecosystems In the face of such awe inspiring complexity there is a need for a comprehensive non reductionist evolutionary theory Having emerged at the crossroads of paleobiology genetics and developmental biology the hierarchical approach to evolution provides a unifying perspective on the natural world and offers an operational framework for scientists seeking to understand the way complex biological systems work and evolve Coedited by one of the founders of hierarchy theory and featuring a diverse and renowned group of contributors this volume provides an integrated comprehensive cutting edge introduction to the hierarchy theory of evolution From sweeping historical reviews to philosophical pieces theoretical essays and strictly empirical chapters it reveals hierarchy theory as a vibrant field of scientific enterprise that holds promise for unification across the life sciences and offers new venues of empirical and theoretical research Stretching from molecules to the biosphere hierarchy theory aims to provide an all encompassing understanding of evolution and with this first collection devoted entirely to the concept will help make transparent the fundamental patterns that propel living systems

Unifying Biology Vassiliki Betty Smocovitis, 2020-11-10 Unifying Biology offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science the evolutionary synthesis of the 1930s and 1940s For more than seventy years after Darwin proposed his theory of evolution it was hotly debated by biological scientists It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists Using methods gleaned from a variety of disciplines Vassiliki Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics they were according to the author also working together to establish an autonomous community of evolutionists Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge In developing her argument she pays close attention to the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science Drawing from some of the most exciting recent approaches in science studies and cultural studies she argues that science is a culture complete with language rituals texts and practices Unifying Biology offers not only its own new synthesis of the history of modern evolution but also a new way of doing history

Evolution, the Extended Synthesis Massimo Pigliucci, Gerd B. Muller, 2010-03-26 Prominent evolutionary biologists and philosophers of science

survey recent work that expands the core theoretical framework underlying the biological sciences In the six decades since the publication of Julian Huxley's *Evolution: The Modern Synthesis* the spectacular empirical advances in the biological sciences have been accompanied by equally significant developments within the core theoretical framework of the discipline As a result evolutionary theory today includes concepts and even entire new fields that were not part of the foundational structure of the Modern Synthesis In this volume sixteen leading evolutionary biologists and philosophers of science survey the conceptual changes that have emerged since Huxley's landmark publication not only in such traditional domains of evolutionary biology as quantitative genetics and paleontology but also in such new fields of research as genomics and EvoDevo Most of the contributors to *Evolution: The Extended Synthesis* accept many of the tenets of the classical framework but want to relax some of its assumptions and introduce significant conceptual augmentations of the basic Modern Synthesis structure just as the architects of the Modern Synthesis themselves expanded and modulated previous versions of Darwinism This continuing revision of a theoretical edifice the foundations of which were laid in the middle of the nineteenth century the reexamination of old ideas proposals of new ones and the synthesis of the most suitable shows us how science works and how scientists have painstakingly built a solid set of explanations for what Darwin called the grandeur of life Contributors John Beatty Werner Callebaut Jeremy Draghi Chrisantha Fernando Sergey Gavrilets John C Gerhart Eva Jablonka David Jablonski Marc W Kirschner Marion J Lamb Alan C Love Gerd B M Mller Stuart A Newman John Odling Smee Massimo Pigliucci Michael Purugganan E rs Szathm ry G nter P Wagner David Sloan Wilson Gregory A Wray

The Darwinian Tradition in Context
Richard G. Delisle, 2017-12-29 The main goal of this book is to put the Darwinian tradition in context by raising questions such as How should it be defined Did it interact with other research programs Were there any research programs that developed largely independently of the Darwinian tradition Accordingly the contributing authors explicitly explore the nature of the relationship between the Darwinian tradition and other research programs running in parallel In the wake of the Synthetic Theory of Evolution which was established throughout the 1930s 1940s and 1950s historians and philosophers of biology devoted considerable attention to the Darwinian tradition i e linking Charles Darwin to mid Twentieth Century developments in evolutionary biology Since then more recent developments in evolutionary biology have challenged in part or entirely the heritage of the Darwinian tradition Not surprisingly this has in turn been followed by a historiographical recalibration on the part of historians and philosophers regarding other research programs and traditions in evolutionary biology In order to acknowledge this shift the papers in this book have been arranged on the basis of two main threads Part I A perspective that views Darwinism as either being originally pluralistic or having acquired such a pluralistic nature through modifications and borrowings over time Part II A perspective blurring the boundaries between non Darwinian and Darwinian traditions either by contending that Darwinism itself was never quite as Darwinian as previously assumed or that non Darwinian traditions took on board various Darwinian components when not fertilizing Darwinism directly Between a

Darwinism reaching out to other research programs and non Darwinian programs reaching out to Darwinism the least that can be said is that this interweaving of intellectual threads blurs the historiographical field This volume aims to open vital new avenues for approaching and reflecting on the development of evolutionary biology *Hierarchical Genome And Differentiation Waves, The: Novel Unification Of Development, Genetics And Evolution (In 2 Volumes)* Richard Gordon,1999-07-12 Over the past few decades numerous scientists have called for a unification of the fields of embryo development genetics and evolution Each field has glaring holes in its ability to explain the fundamental phenomena of life In this book the author shows how the phenomenon of cell differentiation considered in its temporal and spatial aspects during embryogenesis provides a starting point for a unified theory of multicellular organisms plants fungi and animals including their evolution and genetics This unification is based on the recent discovery of differentiation waves by the author and his colleagues described in the appendices and illustrated by a flip movie prepared by a medical artist To help the reader through the many fields covered a glossary is included This book will be of great value to the researcher and practicing doctors scientists alike The research students will receive an in depth tutorial on the topics covered The seasoned researcher will appreciate the applications and the gold mine of other possibilities for novel research topics *Viroid Life* Keith Ansell Pearson,2012-10-12 Nietzsche s vision of the overman continues to haunt the postmodern imagination His call that man is something that must be overcome can no longer be seen as simple rhetoric Our experiences of the hybrid realities of artificial life have made the transhuman a figure that looks over us all Inspired by this vision Keith Ansell Pearson sets out to examine if evolution is out of control and machines are taking over In a series of six fascinating perspectives he links Nietzsche s thought with the issues at stake in contemporary conceptions of evolution from the biological to the technological *Viroid Life Perspectives on Nietzsche and the Transhuman Condition* considers the hybrid inhuman character of our future with the aid of Nietzsche s philosophy Keith Ansell Pearson contrasts Nietzsche and Darwin before introducing the more recent figures such as Giles Deleuze and Guy Debord to sketch a new thinking of technics and machines and stress the ambiguous character of our machine enslavement *Routledge Library Editions: Philosophy of Time* Various Authors,2021-03-05 Reissuing five works originally published between 1937 and 1991 this collection contains books addressing the subject of time from a mostly philosophic point of view but also of interest to those in the science and mathematics worlds These texts are brought back into print in this small set of works addressing how we think about time the history of the philosophy of time the measurement of time theories of relativity and discussions of the wider thinking about time and space among other aspects One volume is a thorough bibliography collating references on the subject of time across many disciplines **Time: A Bibliographic Guide** Samuel L. Macey,2018-10-10 Originally published in 1991 A multidisciplinary guide in the form of a bibliography of selected time related books and articles divided into 25 existing academic disciplines and about 100 subdisciplines which have a wide application to time studies **Generative Emergence** Benyamin B. Lichtenstein,2014

Generative Emergence provides insight into the non linear dynamics that lead to organizational emergence through the use of complexity sciences The book explores how the model of Generative Emergence could be applied to enact emergence within and across organizations Intelligence Emerging Keith L. Downing,2015-05-29 An investigation of intelligence as an emergent phenomenon integrating the perspectives of evolutionary biology neuroscience and artificial intelligence Emergence the formation of global patterns from solely local interactions is a frequent and fascinating theme in the scientific literature both popular and academic In this book Keith Downing undertakes a systematic investigation of the widespread if often vague claim that intelligence is an emergent phenomenon Downing focuses on neural networks both natural and artificial and how their adaptability in three time frames phylogenetic evolutionary ontogenetic developmental and epigenetic lifetime learning underlie the emergence of cognition Integrating the perspectives of evolutionary biology neuroscience and artificial intelligence Downing provides a series of concrete examples of neurocognitive emergence Doing so he offers a new motivation for the expanded use of bio inspired concepts in artificial intelligence AI in the subfield known as Bio AI One of Downing s central claims is that two key concepts from traditional AI search and representation are key to understanding emergent intelligence as well He first offers introductory chapters on five core concepts emergent phenomena formal search processes representational issues in Bio AI artificial neural networks ANNs and evolutionary algorithms EAs Intermediate chapters delve deeper into search representation and emergence in ANNs EAs and evolving brains Finally advanced chapters on evolving artificial neural networks and information theoretic approaches to assessing emergence in neural systems synthesize earlier topics to provide some perspective predictions and pointers for the future of Bio AI Science as a Process David L. Hull,2010-12-15 Legend is overdue for replacement and an adequate replacement must attend to the process of science as carefully as Hull has done I share his vision of a serious account of the social and intellectual dynamics of science that will avoid both the rosy blur of Legend and the facile charms of relativism Because of Hull s deep concern with the ways in which research is actually done Science as a Process begins an important project in the study of science It is one of a distinguished series of books which Hull himself edits Philip Kitcher Nature In Science as a Process David Hull argues that the tension between cooperation and competition is exactly what makes science so successful Hull takes an unusual approach to his subject He applies the rules of evolution in nature to the evolution of science arguing that the same kinds of forces responsible for shaping the rise and demise of species also act on the development of scientific ideas Natalie Angier New York Times Book Review By far the most professional and thorough case in favour of an evolutionary philosophy of science ever to have been made It contains excellent short histories of evolutionary biology and of systematics the science of classifying living things an important and original account of modern systematic controversy a counter attack against the philosophical critics of evolutionary philosophy social psychological evidence collected by Hull himself to show that science does have the character demanded by his philosophy and a philosophical analysis of evolution which is general enough to

apply to both biological and historical change Mark Ridley Times Literary Supplement Hull is primarily interested in how social interactions within the scientific community can help or hinder the process by which new theories and techniques get accepted The claim that science is a process for selecting out the best new ideas is not a new one but Hull tells us exactly how scientists go about it and he is prepared to accept that at least to some extent the social activities of the scientists promoting a new idea can affect its chances of being accepted Peter J Bowler Archives of Natural History I have been doing philosophy of science now for twenty five years and whilst I would never have claimed that I knew everything I felt that I had a really good handle on the nature of science Again and again Hull was able to show me just how incomplete my understanding was Moreover Science as a Process is one of the most compulsively readable books that I have ever encountered Michael Ruse Biology and Philosophy

The Evolutionary Imperative: Why Change Happens, Where It Leads, and How We Might Survive Charles H. M. Beck, Louis Neal Irwin, 2016-12-24 *Evolutionary Paleoecology* Warren D. Allmon, David J. Bottjer, 2001-02-14 One of the most important questions we can ask about life is Does ecology matter Most biologists and paleontologists are trained to answer yes but the exact mechanisms by which ecology matters in the context of patterns that play out over millions of years have never been entirely clear This book examines these mechanisms and looks at how ancient environments affected evolution focusing on long term macroevolutionary changes as seen in the fossil record Evolutionary paleoecology is not a new discipline Beginning with Darwin researchers have attempted to understand how the environment has affected evolutionary history But as we learn more about these patterns the search for a new synthetic view of the evolutionary process that integrates species evolution ecology and mass extinctions becomes ever more pressing The present volume is a benchmark sampler of active research in this ever more active field Foundations of Economic Evolution Carsten Herrmann-Pillath, 2013-01-01 This book is an ambitious intellectual enterprise to build a naturalistic foundation for economics with amazingly vast knowledge of physical biological social sciences and philosophy Readers will discover that approaches and insights emergent in institutional studies social neuroscience network theory ecological economics bio culture dualistic evolution etc are persuasively placed in a grand unified frame It is written in a good Hayekian tradition I recommend this book particularly to young readers who aspire to go beyond a narrowly specified discipline in the age of expanding communicability of knowledge and ideas Masahiko Aoki Stanford University US Carsten Herrmann Pillath s new book is an in depth application of natural philosophy to economics that draws up an entirely new framework for economic analysis It offers path breaking insights on the interactions between human economic activity and nature and outlines a convincing solution to the long standing reductionism controversy A must read for everyone interested in the philosophical underpinnings of economics as a science Ulrich Witt Max Planck Institute of Economics Jena Germany Big picture philosophy of economics drifted into a dull cul de sac as it became obsessively focused on falsifiability and rationality In this book Carsten Herrmann Pillath pushes the field back onto the open highway by locating economics in the larger

frameworks of metaphysics evolutionary dynamics and information theory This is large scale ambitious synthesis of ideas of the kind we expect from time to time to see devoted to physics and biology Why should economics merit anything less But of course this kind of intellectual tapestry must await the appearance of an unusually devoted scholar with special patience and eccentric independence from the pressure for quick returns that characterizes academic life In the person of Hermann Pillath this scholar has appeared No one who wants to examine economics whole and in its richest context should miss his virtuoso performance in this book Don Ross University of Cape Town South Africa and Georgia State University US Hermann Pillath's work attempts to bring to bear upon the discipline of economics perspectives from other discourses which have been burgeoning recently namely thermodynamics evolutionary biology and semiotics aiming at a consilience contextualized by economic activity and problems This marks the work as a contemporary example of natural philosophy which is now at the doorstep of a revival The overall perspective is that human economic activity is an aspect of the ecology of the earth's surface viewing it as an evolving physical system mediated through distributed mentality as expressed in technology evolution Knowledge is taken to be physical with a performative function as in Peirce's pragmatism Thus the social meanings of expectations prices and credit are found to be rooted in energy flows The work draws its foundation from Hegel and C S Peirce and its immediate guidance from Hayek Veblen and Georescu Roegen The author generates an energetic theory of economic growth guided by Odum's maximum power principle Economic discourse itself is reworked in the final chapter in light of the examinations of the previous chapters naturalizing economics within an extremely powerful contemporary framework Stanley N Salthe Binghamton University US An Oscar winning performance in the theatre of consilience It's hard to know which to praise first Carsten Herrmann Pillath's humility or his ambition He says his book is not a great intellectual feat because he pursues the humble task of putting together the ideas of others When he finally gets to economics he tries to be as simple as possible and to conceive of economics in terms of the basics at undergraduate level so to say On the other hand the scale of his ambition is to rethink the foundations of economics from first principles while at the same time holding a running dialogue between contemporary sciences and classic philosophy He's much too modest of course because Foundations is a major achievement but his modesty points to what makes it such a powerful treatise the book is not about his preferences or prejudices it is a scientific approach that aims at establishing truthful propositions about reality That is much harder to achieve than grand theories or complicated mathematics because it amounts to a new modern synthesis of the field an achievement on a par with Julian Huxley's whose own modern synthesis of evolutionary theories in the 1940s allowed for the explosive growth of the biosciences over the next decades The structure of the book is simple enough providing a framework for the naturalistic turn in economics Starting from material existence causation and evolution Hermann Pillath takes us through four fundamental concepts individuals networks institutions and technology before coming finally to the realm of economics proper i.e. markets However Hermann Pillath believes that the foundations of

economics cannot be found within economics but only in dialogue with other sciences or what he calls the theatre of consilience It s a theatre in which various characters come and go where dialogue ebbs and flows conflicts arise and are resolved and where individual actions can be seen as concepts as leading to higher levels of meaning as the plot unfolds The magic of theatre of course is that the point of intelligibility where the characters actions and narrative resolve into meaningfulness is projected out of the drama itself into the spectator That s you dear reader So it is with economics as a discipline Economics is a player in a much larger performance about what constitutes knowledge and how we know that It is also a player in the economy it seeks to explain To understand why money firms growth prices markets and other staples of economic thought emerge and function the way they do it is necessary situate the analysis beyond economics and the economy and to engage with developments across the human evolutionary and complexity sciences This is what Herrmann Pillath does analyzing a breathtaking range of illuminating and sometimes challenging work along the way We are treated to new ideas about the externalized brain the evolution of knowledge in the Earth System i e not just among humans the role of signs and performativity in these processes as well as that of energetic transformations But Herrmann Pillath is not satisfied with the modest task of bringing the best of modern scientific thought to bear on economic concepts and performances he really does harbor a deeper purpose The clue is in his apparently quixotic desire to hang on to philosophical insights associated with pre evolutionary thinkers like Aristotle and Hegel and his apparently eccentric desire to place the semiotic philosophy of C S Pierce at center stage But the patient observer will see that he is not seeking to change the facts by imposing idealist notions on them after the event Instead he is arguing for a change in the way we perform ourselves in the face of these facts He is looking for a modern day equivalent of Confucius or Socrates one who can imagine values and beliefs that define the human species in a new way For those who have eyes to see as the drama unfolds it may be that we have found such a figure in Carsten Herrmann Pillath himself modesty ambition and all This is Cultural Science as it should be done John Hartley Curtin University Australia and Cardiff University UK

NEITHER MIND NOR BRAIN CJ

ROY,2020-12-12 This book is an interdisciplinary theoretical effort to explain the mind body problem Conscious mind is the hard problem to be explained and is the utmost existential question for any scientific mind Neither a reductionist identity theory nor a commonsense religious dualism can answer the problem Human cognitive system can have a natural explanation rather than a religious description To reduce the mind as what the brain does is too premature and to separate the mind and brain as two independent realities is too trivial The hypothesis of the book identifies the conscious mind with the emergent functionality of the human brain And this is definitely an approximate guess This informed guess is a challenge to many previously established theories and is an invitation for further research It demystifies the age old homunculus mind and does not explains it away To elaborate the theme the author has incorporated themes such as complex system dynamics evolution cosmology thermodynamics information and emergence The philosophical discussion on the first three chapters

govern as an intuitive background for the theoretical development in further chapters It affirms that the mind and brain are neither two dichotomized substances nor are they one and same substance Chapters from four to eight deal with various themes from natural science with respect to the theme of mind brain they involve system dynamics cosmology thermodynamics evolutionary theory and information model Last chapter assimilates the discussions of previous chapters to propose the key hypothesis of the book viz mind brain is the emergent functionality of the human brain which is the matter energy information complex system The universe which itself is a matter energy information system at least in one occasion becomes conscious of itself through humans

The Evolutionary Imperative Charles H. M. Beck, Louis Neal Irwin, 2021-09-03 The Evolutionary Imperative provides a unifying perspective on the evolution of the universe in all its physical and biological detail with a call to action for redirecting the evolutionary trajectory of human society The book's thesis is that change is inevitable driven by resolution of energy gradients through the Principle of Least Action and the Second Law of Thermodynamics This energy dissipation model of the evolutionary imperative accounts for all the organization of matter and energy that has ever come about and offers a transcendent view of the world and the place and fate of the human species within it

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Evolution As Entropy Toward A Unified Theory Of Biology Introduction

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