

Did Darwin Get It Right Essays On Games Sex And Evolution

Civilization's Crisis: A Set Of Linked Challenges - Avery John Scales
2017-04-20

Modern civilization faces a broad spectrum of daunting problems, but rational solutions are available for them all. This book explores the following issues: (1) Threats to the environment and climate change; (2) a growing population and vanishing resources; (3) the global food and refugee crisis; (4) intolerable economic inequality; (5) the threat of nuclear war; (6) the military-industrial complex; and (7) limits to growth. These problems are closely interlinked, and their possible solutions are discussed in this book. Contents: Economics, Ethics and Ecology Threats to the Environment and Climate Change Growing Population, Vanishing Resources The Global Food and Refugee Crisis Intolerable Economic Inequality The Threat of Nuclear War Facing a Set of Linked Problems Outlawing War The Evolution of Cooperation Education for Peace The Future of International Law The Choice is Ours to Make Readership: Readers interested in an overview of world issues and a brief history of their origins.

Encyclopedia of Evolution - Stanley A. Rice 2009

Evolutionary science is not only one of the greatest breakthroughs of modern science, but also one of the most controversial. Perhaps more than any other scientific area, evolutionary science has caused us all to question what we are, where we came from, and how we relate to the rest of the universe. Encyclopedia of Evolution contains more than 200 entries that span modern evolutionary science and the history of its development. This comprehensive volume clarifies many common misconceptions about evolution. For example, many people have grown up being told that the fossil record does not demonstrate an evolutionary pattern, and that there are many missing links. In fact, most of these

missing links have been found, and their modern representatives are often still alive today. The biographical entries represent evolutionary scientists within the United States who have had and continue to have a major impact on the broad outline of evolutionary science. The biographies chosen reflect the viewpoints of scientists working within the United States. Five essays that explore interesting questions resulting from studies in evolutionary science are included as well. The appendix consists of a summary of Charles Darwin's Origin of Species, which is widely considered to be the foundational work of evolutionary science and one of the most important books in human history. The five essays include: How much do genes control human behavior? What are the ghosts of evolution? Can an evolutionary scientist be religious? Why do humans die? Are humans alone in the universe

Did Darwin Get It Right? - John Maynard Smith 2012-12-06

Now in paperback, Did Darwin Get It Right discusses some of the hottest issues in biology today. Its author, the eminently quotable John Maynard Smith, discusses such fascinating conundrums as how life began, whether the brain works like a computer, why most animals and plants reproduce sexually, and how social behavior evolved out of the context of natural selection--a process which would seem to favor selfishness. A humorous and insightful writer, John Maynard Smith has the special ability to convey the excitement of science, its complexity and fascination, without baffling or boring his readers. In these 28 brief and accessible essays, Maynard ranges widely over such issues as science and the media, the birth of sociobiology, the evolution of animal intelligence and the limitations of evolutionary theory. For his work on the evolution of sex, Smith won the Darwin medal from the Royal Society, and he has pioneered the application of game theory to animal

behavior.

Did Darwin Get It Right? - John Maynard Smith 1998-01-31

Now in paperback, *Did Darwin Get It Right* discusses some of the hottest issues in biology today. Its author, the eminently quotable John Maynard Smith, discusses such fascinating conundrums as how life began, whether the brain works like a computer, why most animals and plants reproduce sexually, and how social behavior evolved out of the context of natural selection--a process which would seem to favor selfishness. A humorous and insightful writer, John Maynard Smith has the special ability to convey the excitement of science, its complexity and fascination, without baffling or boring his readers. In these 28 brief and accessible essays, Maynard ranges widely over such issues as science and the media, the birth of sociobiology, the evolution of animal intelligence and the limitations of evolutionary theory. For his work on the evolution of sex, Smith won the Darwin medal from the Royal Society, and he has pioneered the application of game theory to animal behavior.

On the Origin of Species - Charles Darwin 2003-03-28

Charles Darwin's *On The Origin of Species*, in which he writes of his theories of evolution by natural selection, is one of the most important works of scientific study ever published. This unabridged edition also includes a rich selection of primary source material: substantial selections from Darwin's other works (Autobiography, notebooks, letters, Voyage of the Beagle, and *The Descent of Man*) and selections from Darwin's sources and contemporaries (excerpts from Genesis, Paley, Lamarck, Spencer, Lyell, Malthus, Huxley, and Wallace).

Darwinism and Evolutionary Economics - John Laurent 2001-01-01

This outstanding collection of essays by leading scholars helps explain how evolutionary economics has come of age. They show how evolutionary economics offers a progressive and diverse research agenda built on strong foundations. These are essays of lasting value. J. Stanley Metcalfe, University of Manchester, UK Darwinism is fast becoming an orthodoxy of modern thought, a framework within which a wide range of knowledge communities conduct their discourse. Ever since its

formation, Darwinian theory has experienced a close, though not always comfortable, association with economics. Evolutionary economists now appear to show little concern for the consistency of knowledge in their embrace of Darwinism. *Darwinism and Evolutionary Economics* brings together contributions from eminent authors who, building on Darwin's own insights and on developments in evolutionary theory, offer challenging views on how economics can use evolutionary ideas effectively. This collection of critical essays provides a thorough examination of the application of Darwinian theory to economic thought, and will appeal to evolutionary economists and all those with an interest in Darwin, innovation and evolutionary science.

Human Freedom After Darwin - John W. N. Watkins 1999

Argues that philosophy of human freedom has been transformed by developments in science, especially evolution. The author accounts for freedom and creativity, and tests his theory with examples from drug addiction, hypnosis, slavery, brainwashing, and creative leaps in thought.

Literary Darwinism - Joseph Carroll 2004

First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

Social Darwinism in European and American Thought, 1860-1945 - Mike Hawkins 1997-03-13

An analysis of the ideological influence of Social Darwinists in Europe and America.

Science, Evolution and Schooling in South Africa - Jeffrey Lever 2002

This first research project deals with the Human Genome Project, the genetic sequencing exercise of humanity.

New Perspectives on Adam Smith's The Theory of Moral Sentiments -

Geoff Cockfield 2007-11-27

'New Perspectives on Adam Smith's "The Theory of Moral Sentiments"' is a comprehensive study of Smith's ideas. It brings together themes and methodologies from a variety of fields including politics, sociology, intellectual history, history of science and evolutionary psychology.

Games, Sex and Evolution - John Maynard Smith 1988

Information Theory And Evolution (Third Edition) - John Scales Avery 2021-11-24

This highly interdisciplinary book discusses the phenomenon of life, including its origin and evolution, against the background of thermodynamics, statistical mechanics, and information theory. Among the central themes is the seeming contradiction between the second law of thermodynamics and the high degree of order and complexity produced by living systems. As the author shows, this paradox has its resolution in the information content of the Gibbs free energy that enters the biosphere from outside sources. Another focus of the book is the role of information in human cultural evolution, which is also discussed with the origin of human linguistic abilities. One of the final chapters addresses the merging of information technology and biotechnology into a new discipline — bioinformation technology. This third edition has been updated to reflect the latest scientific and technological advances. Professor Avery makes use of the perspectives of famous scholars such as Professor Noam Chomsky and Nobel Laureates John O'Keefe, May-Britt Moser and Edward Moser to cast light on the evolution of human languages. The mechanism of cell differentiation, and the rapid acceleration of information technology in the 21st century are also discussed. With various research disciplines becoming increasingly interrelated today, Information Theory and Evolution provides nuance to the conversation between bioinformatics, information technology, and pertinent social-political issues. This book is a welcome voice in working on the future challenges that humanity will face as a result of scientific and technological progress.

The Modern Synthesis - Thomas E. Dickins 2021-11-12

This book is about evolutionary theory. It deals with aspects of its history to focus upon explanatory structures at work in the various forms of evolutionary theory - as such this is also a work of philosophy. Its focus lies on recent debates about the Modern Synthesis and what might be lacking in that synthesis. These claims have been most clearly made by those calling for an Extended Evolutionary Synthesis. The author argues that the difference between these two positions is the consequence of

two things. First, whether evolution is considered as solely a population level phenomenon or also a theory of form. Second, the use of information concepts. In this book Darwinian evolution is positioned as a general theory of evolution, a theory that gave evolution a technical meaning as the statistical outcome of variation, competition, and inheritance. The Modern Synthesis (MS) within biology, has a particular focus, a particular architecture to its explanations that renders it a special theory of evolution. After providing a history of Darwinian theory and the MS, recent claims and exhortations for an Extended Evolutionary Synthesis (EES) are examined that see the need for the inclusion of non-genetic modes of inheritance and also developmental processes. Much of this argument is based around claims that the MS adopts a particular view of information that has privileged the gene as an instructional unit in the emergence of form. The author analyses the uses of information and claims that neither side of the debate explicitly and formally deals with this concept. A more formal view of information is provided which challenges the EES claims about the role of genes in MS explanations of form whilst being consistent with their own interests in developmental biology. It is concluded that the MS implicitly assumed this formal view of information whilst using information terms in a colloquial manner. In the final chapter the idea that the MS is an informational theory that acts to corral more specific phenomenal accounts, is mooted. As such the book argues for a constrained pluralism within biology, where the MS describes those constraints.

Darwin and International Relations - Bradley A. Thayer 2021-03-17

“Shows a mastery of research and theory in both biology and international relations and weaves the two fields together in a compelling fashion.” —Dr. Steven A. Peterson, Director, School of Public Affairs, Penn State Pathbreaking and controversial, Darwin and International Relations offers the first comprehensive analysis of international affairs of state through the lens of evolutionary theory. Using ethnological and statistical studies of warfare among tribal societies, Bradley A. Thayer argues that humans wage war for reasons predicted by evolutionary theory?to gain and protect vital resources but

also for the physically and emotionally stimulating effects of combat. Thayer demonstrates that an evolutionary understanding of disease will become a more important part of the study of international relations as new strains of diseases emerge and advances in genetics make biological warfare a more effective weapon for states and terrorists. He also explains the deep causes of ethnic conflict by illuminating how xenophobia and ethnocentrism evolved in humans. He notes that these behaviors once contributed to our ancestors' success in radically different environments, but they remain a part of us. Darwin and International Relations makes a major contribution to our understanding of human history and the future of international relations. "Obligatory reading for social and life scientists alike, and deserves to become a standard work in political science." —International History Review "A thoughtful book that can challenge some of our comfortable assumptions." —Journal of Military History "Outstanding! This book will become a standard work in political science." —Roger D. Masters, Dartmouth College

The Evolution of Intelligence - Robert J. Sternberg 2013-06-17

How is one to understand the nature of intelligence? One approach is through psychometric testing, but such an approach often puts the "cart before the horse"—the test before the theory. Another approach is to use evolutionary theory. This criterion has been suggested by a number of individuals in the past, from Charles Darwin in the more distant past to Howard Gardner, Stephen Gould, Steven Pinker, Carl Sagan, David Stenhouse, and many others. The chapters in this book address three major questions: 1. Does evolutionary theory help us understand the nature of human intelligence? 2. If so, what does it tell us about the nature of human intelligence? 3. And if so, how has intelligence evolved? The goal of this book is to present diverse points of view on the evolution of intelligence as offered by leading experts in the field. In particular, it may be possible to better understand the nature and societal implications

of intelligence by understanding how and why it has evolved as it has. This book is unique in offering a diversity of points of view on the topic of the evolution of human intelligence.

Retrieving Darwin's Revolutionary Idea - Samuel Grove 2021-07-12

This study examines the development of Darwin's theory of natural selection. The author analyzes how the theory was rejected by the scientific community and argues that his radical thought anticipated Nietzsche's Godless philosophy, Marx's class-based economics, and Freud's psychological theories of the unconscious.

[Encyclopedia of Genetics](#) - Eric C.R. Reeve 2014-01-14

First Published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Origins - Ariel Adrean Roth 1998

Are the worlds of science and religion irreconcilable? Has modern science with its theory of evolution disproved the biblical account of the origin of life? If one accepts the biblical account of origins, does one then have to reject science? Scientist and Christian believer Ariel A. Roth argues that taken together, science and religion give us a more complete and sensible understanding of the world around us, our place in it, and our ultimate meaning and fate. Roth examines such topics as the evidence for evolution and creation, the Flood, the strengths and limitations of the scientific method, and the reliability of Scripture. He concludes that the biblical model of a recent creation by God leaves fewer unanswered questions than either science's evolutionary model or any view between the two positions, such as progressive creation or theistic evolution. - Back cover.

Darwin's Conjecture - Geoffrey M. Hodgson 2010-12

A theoretical study dealing chiefly with matters of definition and clarification of terms and concepts involved in using Darwinian notions to model social phenomena.

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