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NICK LANE

THE VITAL QUESTION



Energy, Evolution, and the
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The Vital Question Energy Evolution And The Origins Of Complex Life

Nick Lane



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The Vital Question Nick Lane, 2015 A biochemist building on the pillars of evolutionary theory and drawing on cutting edge research into the link between energy and genes argues that the evolution of multicellular life was the result of a single event

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The Vital Question: Energy, Evolution, and the Origins of Complex Life Bridgette O. Robles, 2024-10-24 Explore the fascinating journey of life s origins from the formation of Earth to the emergence of complex cells and the search for extraterrestrial life Delve into prebiotic chemistry the RNA world and the evolution of prokaryotic and eukaryotic cells Learn about extinction events survival strategies and the possibilities of life beyond Earth Discover how synthetic biology and bioengineering are shaping the future of origin of life research Embark on an enlightening exploration of the mysteries of life with this insightful book

Planet of Microbes Ted Anton, 2017-10-31 We live in a time of unprecedented scientific knowledge about the origins of life on Earth But if we want to grasp the big picture we have to start small very small That s because the real heroes of the story of life on Earth are microbes the tiny living organisms we cannot see with the naked eye Microbes were Earth s first lifeforms early anaerobic inhabitants that created the air we breathe Today they live invisible and seemingly invincible in every corner of the planet from Yellowstone s scalding hot springs to Antarctic mountaintops to inside our very bodies more than a hundred trillion of them Don t be alarmed though many microbes are allies in achieving our to say nothing of our planet s health In *Planet of Microbes* Ted Anton takes readers through the most recent discoveries about microbes revealing their unexpected potential to reshape the future of the planet For years we knew little about these

invisible invaders considering them as little more than our enemies in our fight against infectious disease But the more we learn about microbes the more it s become clear that our very lives depend on them They may also hold the answers to some of science s most pressing problems including how to combat a warming planet clean up the environment and help the body fight off a wide variety of diseases Anton has spent years interviewing and working with the determined scientists who hope to harness the work of microbes and he breaks down the science while also sharing incredible behind the scenes stories of the research taking place everywhere from microbreweries to Mars The world s tiniest organisms were here more than three billion years before us We live in their world and Planet of Microbes at last gives these unsung heroes the recognition they deserve

The Sentient Cell Arthur S. Reber,Frantisek Baluska,William Miller,2023 In this book Arthur Reber s theory the Cellular Basis of Consciousness CBC is outlined and distinguished from those models that argue that minds could be instantiated on artificial entities and those that maintain consciousness requires a nervous system

Lessons in Environmental Microbiology Roger Tim Haug,2019-07-17 Lessons in Environmental Microbiology provides an understanding of the microbial processes used in the environmental engineering and science fields It examines both basic theory as well as the latest advancements in practical applications including nutrient removal and recovery methanogenesis suspended growth bioreactors and more The information is presented in a very user friendly manner it is not assumed that readers are already experts in the field It also offers a brief history of how microbiology relates to sanitary practice and examines the lessons learned from the great epidemics of the past Numerous worked example problems are presented in every chapter

Structural Dynamics of Membrane Proteins Xuejun Cai Zhang,2025-03-05 This book takes a comprehensive approach to exploring the connection between Membrane proteins MPs structures and functions employing the principles of chemical kinetics It systematically presents the physical properties and biological significance of electrostatic membrane potential while also analyzing the structure function relationships within various MP families based on the principle of membrane potential driving force among other novel concepts To enhance understanding the functional mechanisms of MPs are explained in accessible language and illustrated with simplified models Whether utilized as a supplementary textbook for undergraduate and postgraduate students specializing in molecular biology and physics or as a reference guide for researchers in related fields this book offers valuable insights into the intricate world of structural biology

Modern Humans John F. Hoffecker,2017-10-31 Modern Humans is a vivid account of the most recent and perhaps the most important phase of human evolution the appearance of anatomically modern people Homo sapiens in Africa less than half a million years ago and their later spread throughout the world Leaving no stone unturned John F Hoffecker demonstrates that Homo sapiens represents a major transition in the evolution of living systems in terms of fundamental changes in the role of non genetic information Modern Humans synthesizes recent findings from genetics including the rapidly growing body of ancient DNA the human fossil record and archaeology relating to the African origin and global dispersal of anatomically

modern people Hoffecker places humans in the broad context of the evolution of life emphasizing the critical role of genetic and non genetic forms of information in living systems as well as how changes in the storage transmission and translation of information underlie major transitions in evolution He also draws on information and complexity theory to explain the emergence of Homo sapiens in Africa several hundred thousand years ago and the rapid and unprecedented spread of our species into a variety of environments in Australia and Eurasia including the Arctic and Beringia beginning between 75 000 and 60 000 years ago This magisterial work will appeal to all with an interest in the ever fascinating field of human evolution

Functional Integration Guglielmo Militello,2025-07-01 This book explores the main biological dimensions underlying functional integration and examines how they contribute to defining a biological individual as both a physiological and evolutionary unit Functional integration lies at the heart of most definitions of both organisms and biological individuals making it explanatorily relevant to biology as well as to the philosophy of biology However the notion typically referring to any causal interdependence among biological functions remains broad and lacks a coherent theoretical framework This work addresses that gap by focusing on functional integration at the cellular level which presents both a minimal degree of complexity relative to multicellular organisms and maximal conceptual significance for this inquiry By analysing the transition from prokaryotes to eukaryotes the book sheds light on how spatial constraints system level regulatory mechanisms spatio temporal coordination and system level reproduction contribute to characterizing biological organization as a functionally integrated physiological unit This study opens the way for a fresh reflection on the foundations of biological individuality offering insights not only for researchers but also for students and non specialist readers

Constructive Pneumatological Hermeneutics in Pentecostal Christianity Kenneth J. Archer,L. William Oliverio, Jr.,2016-12-21 This book presents the work of leading hermeneutical theorists alongside emerging thinkers examining the current state of hermeneutics within the Pentecostal tradition The volume s contributors present constructive ideas about the future of hermeneutics at the intersection of theology of the Spirit Pentecostal Christianity and other disciplines This collection offers cutting edge scholarship that engages with and pulls from a broad range of fields and points toward the future of Pneumatological hermeneutics The volume s interdisciplinary essays are broken up into four sections philosophical hermeneutics biblical theological hermeneutics social and cultural hermeneutics and hermeneutics in the social and physical sciences

Whitehead and Continental Philosophy in the Twenty-First Century Jeremy D. Fackenthal,2019-04-29 This book examines how the philosophy of Alfred North Whitehead a speculative philosopher from the first half of the twentieth century converses and entangles itself with continental philosophers of the twentieth and twenty first centuries around the question of a sustainable civilization in the present Chapters are focused around economic and environmental sustainability questions of how technology and systems relate to this sustainability relationships between human and nonhuman entities relationships among humans and how larger philosophical questions lead one to think differently about what the terms sustainable and

civilization mean The book aims to uncover and explore ways in which the combination of these philosophies might provide the dislocations within thought that lead to novel ways of being and acting in the world

The Boy Without A Soul K Duncan Deaton, MD, 2021-02-10 The Boy Without a Soul By K Duncan Deaton MD The Boy Without a Soul is a thought provoking novel about the rude confrontation between biblical inerrancy and the strange supernatural beliefs of some Christians with science and modern morality Because there is no one fundamentalist position K Duncan Deaton creates a hybrid sect named the Roman Baptists The story begins with an atheist oncologist Tom Tanner whose compassion confronts the church s fundamentalist dogma It continues with the possibility of cloning Jesus from the communion service s transubstantiated flesh and blood And the story ends as it must with the enactment of the perfect justice of God as described in the inerrant Bible

Nature Strange and Beautiful Egbert Giles Leigh, Christian Ziegler, 2019-08-20 A beautifully written exploration of how cooperation shaped life on earth from its single celled beginnings to complex human societies In this rich wide ranging beautifully illustrated volume Egbert Leigh explores the results of billions of years of evolution at work Leigh who has spent five decades on Panama s Barro Colorado Island reflecting on the organization of various amazingly diverse tropical ecosystems now shows how selection on selfish genes gives rise to complex modes of cooperation and interdependence With the help of such artists as the celebrated nature photographer Christian Ziegler natural history illustrator Deborah Miriam Kaspari and Damond Kylo Leigh explains basic concepts of evolutionary biology ranging from life s single celled beginnings to the complex societies humans have formed today The book covers a range of topics focusing on adaptation competition mutualism heredity natural selection sexual selection genetics and language Leigh s reflections on evolution competition and cooperation show how the natural world becomes even more beautiful when viewed in the light of evolution

Reinventing SETI John Gertz, 2025 Reinventing SETI clears out the cobwebs of outdated or wrongheaded SETI paradigms such as Fermi s Paradox the Drake Equation and METI i e proactively sending signals from Earth to putative aliens It argues that scientists should approach the pursuit of extraterrestrials ETs in a more effective manner Author John Gertz states that ETs as biological lifeforms themselves cannot accomplish interstellar travel but have instead placed robotic probes throughout the universe perhaps even in our own Solar System Humorous and deeply informative this book takes the reader through the universe conventional SETI methods and ideas on future ET exploration

The Matter of Evil Drew M. Dalton, 2023-10-15 A provocative and entirely new account of ethical reasoning that reconceives the traditional understanding of ethical action negatively In this radical reconsideration of ethical reasoning in contemporary European philosophy Drew M Dalton makes the case for an absolutely grounded account of ethical normativity developed from a scientifically informed and purely materialistic metaphysics Expanding on speculative realist arguments Dalton argues that the limits placed on the nature of ethical judgments by Kant s critique can be overcome through a moral evaluation of the laws of nature specifically the entropic principle that undergirds the laws of physics chemistry and biology In order to extract

a moral meaning from this simple material fact Dalton scrutinizes the presumptions of classical accounts and traditional understandings of good and evil within the history of Western philosophy and ultimately asserts that ethical normativity can be reestablished absolutely without reverting to dogmatism By overturning our assumptions about the nature and value of reality The Matter of Evil From Speculative Realism to Ethical Pessimism presents a provocative new model of ethical responsibility that is both logically justifiable and scientifically sound Dalton argues for ethical pessimism a position previously marginalized in the West as a means to cultivate an account of ethical responsibility and political activism that takes seriously the unbecoming of being and the moral horror of existence **The Song of the Cell** Siddhartha

Mukherjee, 2022-10-30 From Pulitzer Prize winning and 1 New York Times bestselling author of The Emperor of All Maladies and The Gene The Song of The Cell is the third book in this extraordinary writer's exploration of what it means to be human rich with Siddhartha Mukherjee's revelatory and exhilarating stories of scientists doctors and all the patients whose lives may be saved by their work In the late 1600s a distinguished English polymath Robert Hooke and an eccentric Dutch cloth merchant Antonie van Leeuwenhoek look down their handmade microscopes What they see introduces a radical concept that sweeps through biology and medicine touching virtually every aspect of the two sciences and altering both forever It is the fact that complex living organisms are assemblages of tiny self contained self regulating units Our organs our physiology our selves hearts blood brains are built from these compartments Hooke christens them cells The discovery of cells and the reframing of the human body as a cellular ecosystem announced the birth of a new kind of medicine based on the therapeutic manipulations of cells A hip fracture a cardiac arrest Alzheimer's dementia AIDS pneumonia lung cancer kidney failure arthritis COVID all could be viewed as the results of cells or systems of cells functioning abnormally And all could be perceived as loci of cellular therapies In The Song of the Cell Mukherjee tells the story of how scientists discovered cells began to understand them and are now using that knowledge to create new humans He seduces readers with writing so vivid lucid and suspenseful that complex science becomes thrilling Told in six parts laced with Mukherjee's own experience as a researcher doctor and prolific reader The Song of the Cell is both panoramic and intimate a masterpiece Health Care in the Information Society David Ingram, 2023-11-17 In this fascinating book David Ingram traces the history of information technology and health informatics from its pioneers in the middle of the twentieth century to its latest developments The book is distinctive in its broad scope and coverage and as the eyewitness account of an author who became the first UK professor appointed with the mission to bridge information technology with everyday medicine health and care In this role he has been a co founder and leader of two rapidly growing initiatives openEHR and OpenEyes which stem from international collaborations of universities health services and industries These open source and open platform technologies have struck a widely resonant chord worldwide through their focus on community interest endeavours and open access to their methods and outputs Set against the history of extremely costly burdensome and serially unsuccessful top down attempts of

governments to tackle the domain the book argues for a greater focus on shared endeavours of this kind contributing towards a standardized care information utility that incorporates methods and resources evolved shared and sustained in the public domain As information technologies are now at the very core of health care shaping the relationship between medical services and communities professions organisations and industries this book is important reading for politicians health care academics administrators and providers and to anybody interested in the future of health services in the digital age

Systemic Semiotics Piotr Sadowski, 2022-09-08 Against the background of often esoteric literature in semiotics this book offers a fresh and rigorous new interpretation of how to approach the study of communication signs and meaning Grounded in a deductive theory of interacting systems Piotr Sadowski's book provides an accessible account of the hierarchy of communication Divided into two parts this book argues in the first section that a deductive semiotic theory generates communication situations of increasing complexity from contiguous communication to indirect referential forms based on indexical iconic and symbolic signs Within this system Sadowski explains how key concepts of the semiotic model such as information parainformation and metainformation can account for degrees of cognitive complexity of communication processes including the perception and interpretation of signs on literal and figurative levels After this clear step by step exposition of the theory of interacting systems Systemic Semiotics then explores various applications of this theory providing new insights into problems subsumed under communication studies cultural theory literary and film studies and psychology

Mindsponge Theory Quan-Hoang Vuong, 2023-01-13 Despite the remarkable cognitive power humans are not alien beings living in their isolated universe but part of the Earth's biosphere a dynamic intelligent system The working of the human mind and society is built upon and follows the principles of the natural world In today's modern society where technological advancement has significantly increased information accessibility to new knowledge social sciences can greatly benefit from discoveries in natural sciences In this book the latest findings in life sciences are used as evidence to demonstrate and explain the mechanisms of psychological and social information processes Mindsponge is a novel theory of information processing in the human mind The mechanisms of information processing are present in all levels of the natural world from ecological and physiological down to cellular and molecular As a subset of nature humans express these patterns in the way we think believe behave and establish social constructs By looking at the intelligent minds of nature a more accurate framework for human cognition can be logically derived The mindsponge theory reflects the physical chemical and biological laws upon the mental world not the other way around Throughout the book readers will find interesting often hilarious stories of both the natural and social world accompanied by clear scientific explanations and evidence Each story brings to the table yet another angle to look at the unified principle of information processing within the biosphere survive and thrive The book also provides original quantitative findings employing the Bayesian Mindsponge Framework BMF to demonstrate the consistency and applicability of the theory in studying psychological and social phenomena

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