

Simon Conway Morris

*The*  
**RUINES**  
*of*  
**EVOLUTION**

*How the Universe Became Self-Aware*

# The Runes Of Evolution How The Universe Became Self Aware

**Celia E. Deane-Drummond**



## **The Runes Of Evolution How The Universe Became Self Aware:**

*The Runes of Evolution* Simon Conway Morris, 2015-06-30 How did human beings acquire imaginations that can conjure up untrue possibilities How did the Universe become self aware In *The Runes of Evolution* Simon Conway Morris revitalizes the study of evolution from the perspective of convergence providing us with compelling new evidence to support the mounting scientific view that the history of life is far more predictable than once thought A leading evolutionary biologist at the University of Cambridge Conway Morris came into international prominence for his work on the Cambrian explosion especially fossils of the Burgess Shale and evolutionary convergence which is the process whereby organisms not closely related not monophyletic independently evolve similar traits as a result of having to adapt to similar environments or ecological niches In *The Runes of Evolution* he illustrates how the ubiquity of convergence hints at an underlying framework whereby many outcomes not least brains and intelligence are virtually guaranteed on any Earth like planet Conway Morris also emphasizes how much of the complexity of advanced biological systems is inherent in microbial forms By casting a wider net *The Runes of Evolution* explores many neglected evolutionary questions Some are remarkably general Why for example are convergences such as parasitism carnivory and nitrogen fixation in plants concentrated in particular taxonomic hot spots Why do certain groups have a particular propensity to evolve toward particular states Some questions lead to unexpected evolutionary insights If bees sleep as they do do they dream Why is that insect copulating with an orchid Why have sponges evolved a system of fiber optics What do mantis shrimps and submarines have in common If dinosaurs had not gone extinct what would have happened next Will a saber toothed cat ever re evolve Conway Morris observes Even amongst the mammals let alone the entire tree of life humans represent one minute twig of a vast and largely fossilized arborecence Every living species is a linear descendant of an immense string of now vanished ancestors but evolution itself is the very reverse of linear Rather it is endlessly exploratory probing the vast spaces of biological hyperspace Indeed this book is a celebration of how our world is and was populated by a riot of forms a coruscating tapestry of life *The Runes of Evolution* is the most definitive synthesis of evolutionary convergence to be published to date

## **Extraterrestrials in the Catholic Imagination**

Jennifer Rosato, Alan Vincelette, 2021-02-10 What do scientists know about the possibility of life outside our solar system How does Catholic science fiction imagine such worlds What are the implications for Catholic thought This collection brings together leading scientists philosophers theologians and science fiction authors in the Catholic tradition to examine these issues In the first section Christian scientists detail the latest scientific findings regarding the possibility of life on exoplanets The second part brings together leading Catholic science fiction authors who describe how alien life forms have been prevalent in the Catholic imagination from the Middle Ages right up to the present day In the final section Catholic philosophers and theologians examine the implications of discovering intelligent life elsewhere in the universe Rather than worrying that the discovery of intelligent extraterrestrials might threaten the dignity of humans or their existence the contributors here

maintain that such creatures should be welcomed as fellow creatures of God and potential subjects of divine salvation *Is There Purpose in Biology?* Denis Alexander, 2018-06-22 Atheists assert that the natural world has no meaning or purpose Dr Denis Alexander Emeritus Director of The Faraday Institute for Science and Religion at St Edmunds College Cambridge draws a different conclusion Not only do recent evolutionary biological data appear inconsistent with the claim that the world is purposeless but the Christian doctrine of creation has provided and continues to provide both context and stimulus for the study of the natural world Christians started biology However is a belief in an omnipotent benign Creator consistent with a world of pain and suffering From a lifetime study in the biological sciences Denis Alexander believes that whilst the cost of existence is extremely high it can nonetheless be squared with the idea of a God of love whose ultimate purposes for humankind render that cost more comprehensible *It Keeps Me Seeking* Andrew Briggs, Hans Halvorson, Andrew M. Steane, 2018 An exposition on the common phrase science and religion Science has something to say about every aspect of human experience and religion is broadly speaking the attempt by people to find and assert meaningfulness *Conjunctive Explanations in Science and Religion* Diarmid A. Finnegan, David H. Glass, Mikael Leidenhag, David N. Livingstone, 2023-02-28 This book investigates the nature and relevance of conjunctive explanations in the context of science and religion It explores questions concerning how scientific and religious explanations for features of the world or phenomena within it relate to each other and whether they might work together in mutually enriching ways The chapters address topics including the relationship between Darwinian and teleological explanations non reductive explanations of mind and consciousness and explanations of Christian faith and religious experience while others explore theological and philosophical issues concerning the nature and feasibility of conjunctive explanations Overall the contributions help to provide conceptual clarity on how scientific and religious explanations might or might not work together conjunctively as well as exploring how these ideas relate to specific topics in science and religion more generally **A Skeptic's Investigation into Jesus** J. P. Hannah, 2020-04-27 Does human life have any significance The statements below have become widely accepted in the Western world Life is the accidental product of random events The laws of physics are totally deterministic Science does not accept a connection between physical matter and human consciousness Atheism is a conclusion from evidence while faith is speculation Science and faith are incompatible Suffering contradicts the existence of a loving omnipotent God Jesus was a compilation of pagan mythologies or a human teacher who was deified But do these statements represent eternal truths Are they logical conclusions based on established facts or merely opinions What is the evidence To investigate these and other questions of existence and faith a skeptical academic objectively explored relevant aspects of philosophy mythology history archaeology cosmology quantum physics biochemistry and various faiths that finally led to investigation of the Judeo Christian Scriptures including the Dead Sea Scrolls and the gnostic gospels The findings of this research not only challenge many modern assumptions but also have significant implications for our understanding of reality Written with minimum

technicality for general readership this book presents a wide range of interesting and carefully confirmed facts relevant to the above questions Whether you are an atheist or an agnostic a Christian or a follower of another faith or have simply not been interested this investigation provides valuable and surprising insights into the nature of the universe and our place in it

Issues in Science and Theology: Are We Special? Michael Fuller, Dirk Evers, Anne Runehov, Knut-Willy Sæther, 2017-10-23 This book offers a penetrating analysis of issues raised by the perennial question Are We Special It brings together scholars from a variety of disciplines from astronomy and palaeontology to philosophy and theology to explore this question Contributors cover a wide variety of issues including what makes humans distinct from other animals the possibilities of artificial life and artificial intelligence the likelihood of life on other planets and the role of religious behavior A variety of religious and scientific perspectives are brought to bear on these matters As a whole the book addresses whether the issue of human uniqueness is one to which sciences and religions necessarily offer differing responses **Improbable Destinies**

Jonathan B. Losos, 2018-08-07 A major new book overturning our assumptions about how evolution works Earth's natural history is full of fascinating instances of convergence phenomena like eyes and wings and tree climbing lizards that have evolved independently multiple times But evolutionary biologists also point out many examples of contingency cases where the tiniest change a random mutation or an ancient butterfly sneeze caused evolution to take a completely different course What role does each force really play in the constantly changing natural world Are the plants and animals that exist today and we humans ourselves inevitabilities or evolutionary flukes And what does that say about life on other planets Jonathan Losos reveals what the latest breakthroughs in evolutionary biology can tell us about one of the greatest ongoing debates in science He takes us around the globe to meet the researchers who are solving the deepest mysteries of life on Earth through their work in experimental evolutionary science Losos himself is one of the leaders in this exciting new field and he illustrates how experiments with guppies fruit flies bacteria foxes and field mice along with his own work with anole lizards on Caribbean islands are rewinding the tape of life to reveal just how rapid and predictable evolution can be Improbable Destinies will change the way we think and talk about evolution Losos's insights into natural selection and evolutionary change have far reaching applications for protecting ecosystems securing our food supply and fighting off harmful viruses and bacteria This compelling narrative offers a new understanding of ourselves and our role in the natural world and the cosmos The Image of the Unseen God Hosinski, Thomas E., 2017-08-17 Physics Of Cancer, The: Research Advances

Bernard S Gerstman, 2020-12-03 Cancer deaths per capita have decreased in recent years but the improvement is attributed to prevention not treatment The difficulty in treating cancer may be due to its complexity in the mathematical physics sense of the word Tumors evolve and spread in response to internal and external factors that involve feedback mechanisms and nonlinear behavior Investigations of the nonlinear interactions among cells and between cells and their environment are crucial for developing a sufficiently detailed understanding of the system's emergent phenomenology to be able to control the

behavior In the case of cancer controlling the system's behavior will mean the ability to treat and cure the disease Physicists have been studying various complex nonlinear systems for many years using a variety of techniques These investigations have provided insights that allow physicists to make unique contributions towards the treatment of cancer This interdisciplinary book presents recent advancements in physicists research on cancer The work presented in this volume uses a variety of physical biochemical mathematical theoretical and computational techniques to gain a deeper molecular and cellular understanding of the horrific disease that is cancer

**Flat Earths and Fake Footnotes** Derrick

Peterson, 2021-02-17 We are all haunted by histories They shape our presuppositions and ballast our judgments In terms of science and religion this means most of us walk about haunted by rumors of a long war However there is no such thing as the history of the conflict of science and Christianity and this is a book about it In the last half of the twentieth century a sea change in the history of science and religion occurred revealing not only that the perception of protracted warfare between religion and science was a curious set of mythologies that had been combined together into a sort of supermyth in need of debunking It was also seen that this collective mythology arose in the nineteenth and twentieth centuries by historians involved in many sides of the debates over Darwin's discoveries and from there latched onto the public imagination at large Flat Earths and Fake Footnotes takes the reader on a journey showing how these myths were constructed collected together and eventually debunked Join us for a story of flat earths and fake footnotes to uncover the strange tale of how the conflict of science and Christianity was written into history

**From Extraterrestrials to Animal Minds** Simon Conway

Morris, 2022-03-28 In this learned romp of science writing Cambridge professor Simon Conway Morris cheerfully challenges six assumptions what he calls myths that too often pass as unquestioned truths amongst the evolutionary orthodox His convivial tour begins with the idea that evolution is boundless in the kinds of biological systems it can produce Not true he says The process is highly circumscribed and delimited Nor is it random This popular notion holds that evolution proceeds blindly with no endgame But Conway Morris suggests otherwise pointing to evidence that the processes of evolution are seeded with inevitabilities If that is so then what about mass extinctions Don't they steer the development of life in radically new directions Rather the reverse claims Conway Morris Such cataclysms accelerate evolutionary developments that were going to happen anyway And what about that other evolutionary canard the missing link There is plenty to choose from in the fossil record but persistently overlooked is that in any group there is not one but a phalanx of missing links Once again we under score the near inevitability of evolutionary outcomes Turning from fossils to minds Conway Morris critically examines the popular tenet that the intelligence of humans and animals are the same thing a difference of degree not kind A closer scrutiny of our minds shows that in reality an unbridgeable gulf separates us from even the chimpanzees so begging questions of consciousness and Mind Finally Conway Morris tackles the question of extraterrestrials Undoubtedly the size and scale of the universe suggest that alien life must exist somewhere beyond Earth and our tiny siloed solar system After all

evolutionary convergence more than hints that human like forms are universal But Dr Conway Morris has serious doubts The famous Fermi Paradox Where are they appears to hold Alone in the cosmos and unique but not quite in the way one might expect A Modern Relation of Theology and Science Assisted by Emergence and Kenosis Bradford McCall,2018-02-28 How should we attempt to understand the relationship between theology and science in the twenty first century In this book I will attempt to answer this question by examining several previous attempts to classify this relationship I also develop my personal view of the relation thereafter discussing some Catholic contributions to this project and then revisit some of my previously published material highlighting the role of panentheism therein and noting an emergent implication from the literature the resultant possibilities for God an implication that creates space for a broadly relational perspective of the process of emergence These movements allow me to argue that kenosis and emergence can add to the discussion of understanding the theology and science relationship Herein I advocate a monistic process based view of the overlapping relationship between theology and science A Strange Goodness? Stephen Ames,2024-04-01 This book is about all the suffering and death produced by natural processes like tsunamis genetic disorders extreme weather events even before climate change and the whole evolutionary process leading to all living things on the planet The book is not about the violence men and women wilfully do to each other and to the planet Many people find all this suffering and death due to natural processes hard to reconcile with the belief that these natural processes are created by a God who is all powerful all knowing and wholly good They expect such a God to create a different kind of universe without such suffering and death The actual universe contradicts the universe expected This is good enough reason for many people to decide to give up believing in God who is the creator of these natural processes The book is an invitation for people to revisit that decision The book comes from the author co designing and co lecturing with his atheist colleagues in History and Philosophy of Science at The University of Melbourne a second year subject God and the Natural Sciences This took place over twenty years Students with a wide variety of beliefs enrolled in the subject from across the university The book has three chapters The first clarifies the problem in the problem of natural evil to ensure we are not talking past each other The second chapter gives my answer to the problem of natural evil I argue from this idea of God to the kind of universe we should expect God to create The expected universe is found not to contradict the actual universe The third chapter is Reality Checks nine ways of testing the account of the kind of universe we should expect God to create The book has an appendix where I discuss alternative ideas of God that are in circulation and address several other criticisms of the idea of God besides the problem of natural evil

**Contingency and Convergence** Russell Powell,2020-02-25 Can we can use the patterns and processes of convergent evolution to make inferences about universal laws of life on Earth and elsewhere In this book Russell Powell investigates whether we can use the patterns and processes of convergent evolution to make inferences about universal laws of life on Earth and elsewhere Weaving together disparate philosophical and empirical threads Powell offers the first detailed analysis

of the interplay between contingency and convergence in macroevolution as it relates to both complex life in general and cognitively complex life in particular. If the evolution of mind is not a historical accident, the product of convergence rather than contingency, then Powell asks, is mind likely to be an evolutionarily important feature of any living world? Stephen Jay Gould argued for the primacy of contingency in evolution. Gould's radical contingency thesis, RCT, has been challenged, but critics have largely failed to engage with its core claims and theoretical commitments. Powell fills this gap. He first examines convergent regularities at both temporal and phylogenetic depths, finding evidence that both vindicates and rebuffs Gould's argument for contingency. Powell follows this partial defense of the RCT with a substantive critique. Among the evolutionary outcomes that might defy the RCT, he argues, cognition is particularly important, not only for human-specific issues of the evolution of intelligence and consciousness but also for the large-scale ecological organization of macroscopic living worlds. Turning his attention to complex cognitive life, Powell considers what patterns of cognitive convergence tell us about the nature of mind, its evolution, and its place in the universe. If complex bodies are common in the universe, might complex minds be common as well?

**Human Flourishing** Andrew Briggs, Michael J. Reiss, 2021. Drawing on scientific insights and spiritual wisdom, *Human Flourishing* uses evidence from psychology, sociology, philosophy, theology, and other disciplines to encourage the reader to reflect on what constitutes a good life and the choices that can help achieve it. Book jacket

**Theological Ethics through a Multispecies Lens** Celia E. Deane-Drummond, 2019-11-05. There are two driving questions informing this book. The first is where does our moral life come from? It presupposes that considering morality broadly is inadequate. Instead, different aspects need to be teased apart. It is not sufficient to assume that different virtues are bolted onto a vicious animality, red in tooth and claw. Nature and culture have interlaced histories. By weaving in evolutionary theories and debates on the evolution of compassion, justice, and wisdom, it shows a richer account of who we are as moral agents. The second driving question concerns our relationships with animals. Deane Drummond argues for a complex, community-based multispecies approach. Hence, rather than extending rights, a more radical approach is a holistic multispecies framework for moral action. This need not weaken individual responsibility. She intends not to develop a manual of practice but rather to build towards an alternative, philosophically informed approach to theological ethics, including animal ethics. The theological thread weaving through this account is wisdom. Wisdom has many different levels and, in the broadest sense, is connected with the flow of life, understood in its interconnectedness and sociality. It is profoundly theological and practical. In naming the project, the evolution of wisdom, Deane Drummond makes a statement about where wisdom may have come from and its future orientation. But justice, compassion, and conscience are not far behind, especially in so far as they are relevant to both individual decision-making and institutions.

**Soul Making** Douglas M. Gillette, 2024-11-19. Explains how to embrace the paradox of the spiritual path: that we are already reflections of the Divine and manifest our soul's transcendent nature in everyday life. Provides contemplative and philosophical tools to support the



journey to experience the Sacred Explores mythic stories of soul development and intuition found in Maya and Pythagorean traditions ancient Egyptian thought and Zoroastrianism In the mind of the Divine every person has Infinite Eternal and Absolute Worth But how do we manifest our transcendent nature in everyday life How can we construct our lives in the material world so they reflect the Divine nature of our souls Through his own story of spiritual self realization Douglas M Gillette explores the paradox that lies at the heart of the quest for union with the Divine As the author explains those of us on the mystical path are each working on our souls to better reflect their Divine nature yet we are already reflections of the Divine To help you embrace this paradox the author provides mythic stories of soul development and intuition from Maya and Pythagorean traditions ancient Egyptian thought and Zoroastrianism He shows how embracing the power of emotions like wonder dread and awe provide a mirror that allows us to see ourselves as infinite and immortal persons on finite and mortal adventures In addition to myth the author s synthesis of Neoplatonism and Panentheism provides readers with contemplative tools to fulfill their mystical journey Bringing together a wide range of contrasting worldviews and ideas assumed to be in opposition the author shows how unifying views that are often considered polar opposites is a primary vehicle for actualizing our core purpose as souls in the physical world He deeply investigates the emergence of personhood as we build our material lives and he reveals the thrill of actually entering into the Sacred through the paradoxical journey of soul making becoming in the physical world what we already are in the infinity and eternity of the Divine Psyche **Earthling** Dean

Wallraff,2023-11-25 Climate Change is the most important ethical problem humanity is facing right now We are in the process of harming the Earth in ways that will diminish the quality of life for many future generations Our old human centrism our national tribalism and our short term perspectives must give way to new ways of thinking that give moral standing to other animals and that take global and long term perspectives In the year 3000 humankind will look back to the present century which dramatically altered the planet s climate and ecosystems Will they curse us as destroyers of the earthly paradise humankind enjoyed until now To avoid this we need to change our approach to ethics economics sustainability politics and law **Earthling A New Ethics for the Anthropocene** addresses sustainability economics politics and law as important factors in climate ethics It aims to both help with understanding these issues and present potential solutions for the problem **Dictionary of Christianity and Science** Zondervan,2017-04-25 The definitive reference work on

science and Christian belief How does Christian theology relate to scientific inquiry What are the competing philosophies of science and do they work with a Christian faith based on the Bible No reference work has covered this terrain sufficiently until now Featuring entries from over 140 international contributors the Dictionary of Christianity and Science is a deeply researched peer reviewed fair minded work that illuminates the intersection of science and Christian belief In one volume you get reliable summaries and critical analyses of over 450 relevant concepts theories terms movements individuals and debates You will find answers to your toughest questions about faith and science from the existence of Adam and Eve to the

age of the earth evolution and string theory FEATURES INCLUDE Over 450 entries that will help you think through some of today s most challenging scientific topics including climate change evolution bioethics and much more Essays from over 140 leading international scholars including Francis Beckwith Michael Behe Darrell Bock William Lane Craig Hugh Ross Craig Keener Davis Young John Walton and many more Multiple view essays on controversial topics allow you to understand and compare differing Christian viewpoints Learn about flesh and blood figures who have shaped the interaction of science and religion Augustine Aquinas Bacon Darwin and Stephen Hawking are just the beginning Fully cross referenced entries include references and recommendations for further reading Advance Praise Every Christian studying science will want a copy within arm s reach Scot McKnight Northern Seminary This is an invaluable resource that belongs in every Christian s library I will be keeping my copy close by when I m writing Lee Strobel Elizabeth and John Gibson chair of apologetics Houston Baptist University Sparkles with passion controversy and diverse perspectives Karl Giberson professor of science and religion Stonehill College An impressive resource that presents a broad range of topics from a broad tent of evangelical scholars Michael R Licona Houston Baptist University I am certain that this dictionary will serve the church for many years in leading many to demonstrate that modern science can glorify our Creator and honor his creation Denis O Lamoureux University of Alberta Dictionary is too humble a label for what this is I anticipate that this will offer valuable guidance for Christian faithfulness C John Collins Covenant Theological Seminary Get answers to the difficult questions surround faith and science Adam and Eve the Age of the Earth Climate Change Evolution Fossil Record Genesis Flood Miracles Cosmology Big Bang theory Bioethics Darwinism Death Extraterrestrial Life Multiverse String theory and much much more

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