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A Little Life Ice The Path to the Double Helix Who Wrote the Book of Life? On the Physical Basis of Life biochemical predestination Information and the Origin of Life Genesis and Evolutionary Development of Life Information Theory and Molecular Biology The Emergence of Biological Organization Blueprint for a Cell Clay Minerals and the Origin of Life The Touchstone of Life Evolution from Space Essays on Nucleic Acids Energy Flow in Biology The Life Puzzle: on Crystals and Organisms and on the Possibility of a Crystal as an Ancestor Origins The Wonders of Life: A Popular Study of Biological Philosophy The probabilistic revolution What is Life? Life Itself The Origins of Life

A Little Life 2015-03-10

new york times bestseller a stunning portrait of the enduring grace of friendship npr about the families we are born into and those that we make for ourselves a masterful depiction of love in the twenty first century national book award finalist man Booker prize finalist winner of the kirkus prize a little life follows four college classmates broke adrift and buoyed only by their friendship and ambition as they move to new york in search of fame and fortune while their relationships which are tinged by addiction success and pride deepen over the decades the men are held together by their devotion to the brilliant enigmatic jude a man scarred by an unspeakable childhood trauma a hymn to brotherly bonds and a masterful depiction of love in the twenty first century hanya yanagihara s stunning novel is about the families we are born into and those that we make for ourselves look for hanya yanagihara s latest bestselling novel to paradise

Ice 1983

the best of mcbain s acclaimed 87th precinct series

The Path to the Double Helix 2013-05-13

written by a noted historian of science this in depth account traces how watson and crick achieved one of science s most dramatic feats their 1953 discovery of the molecular structure of dna

Who Wrote the Book of Life? 2000

this is a detailed history of one of the most important and dramatic episodes in modern science recounted from the novel vantage point of the dawn of the information age and its impact on representations of nature heredity and society drawing on archives published sources and interviews the author situates work on the genetic code 1953 70 within the history of life science the rise of communication technosciences cybernetics information theory and computers the intersection of molecular biology with cryptanalysis and linguistics and the social history of postwar europe and the united states kay draws out the historical specificity in the process by which the central biological problem of dna based protein synthesis came to be metaphorically represented as an information code and a writing technology and consequently as a book of life this molecular writing and reading is part of the cultural production of the nuclear age its power amplified by the centuries old theistic resonance of the book of life metaphor yet as the author points out these are just metaphors analogies not ontologies necessary and productive as they have been they have their epistemological limitations deploying analyses of language cryptology and information theory the author persuasively argues that technically speaking the genetic code is not a code dna is not a language and the genome is not an information system objections voiced by experts as early as the 1950s thus her historical reconstruction and analyses also

serve as a critique of the new genomic biopower genomic textuality has become a fact of life a metaphor literalized she claims as human genome projects promise new levels of control over life through the meta level of information control of the word the dna sequences and its editing and rewriting but the author shows how the humbling limits of these scriptural metaphors also pose a challenge to the textual and material mastery of the genomic book of life

On the Physical Basis of Life 1870

the relationship between law and chance in the early evolution of life is the guiding theme of this provocative study the author explores modern ideas about the origin of life from the standpoint of philosophy of science emphasizing the contribution made by information theory küppers asserts that all life phenomena are steered by information and that this information is already defined materially in a universal form at the level of the biological macromolecule the question of the origin of life turns out to be the question of the origin of biological information information and the origin of life takes up the fundamental problems of whether and if so to what extent the origin of semantic information during evolution can be explained as a general phenomenon within the framework of physics and chemistry the results could have far reaching consequences for such fields as the philosophy of mind and artificial intelligence bernd olaf küppers has long focused his attention on basic questions of natural science and the philosophy of science at the borders of physics chemistry and biology he has been engaged since 1971 in research at the max planck institute for biophysical chemistry and from 1979 to 1984 he held lecture courses in philosophy at the university of göttingen

biochemical predestination 1969

genesis and evolutionary development of life discusses the present state of thought on the origin and development of life the book contains six chapters and begins with a brief history of attempts to solve the problem of the origin of life this is followed by separate chapters that discuss the following events the initial stages in the evolution of carbon compounds formation of the primitive soup origin of prebiological systems evolution of protobionts and the origin of the first organisms and the further evolution of the first organisms

Information and the Origin of Life 1990

dr yockey presents an introduction to the use of information theory in molecular biology the book lends to molecular biology a well developed mathematical foundation and provides mathematical definitions for the vocabulary with which basic questions in molecular biology are debated information complexity order uncertainty randomness and similarity

Genesis and Evolutionary Development of Life

2017-01-19

this volume is the edited proceedings of a conference seeking to clarify the possible role of clays in the origin of life on earth at the heart of the problem of the origin of life lie fundamental questions such as what kind of properties is a model of a primitive living system required to exhibit and what would its most plausible chemical and molecular makeup be answers to these questions have traditionally been sought in terms of properties that are held to be common to all contemporary organisms however there are a number of different ideas both on the nature and on the evolutionary priority of common vital properties notably those based on protoplasmic biochemical and genetic theories of life this is therefore the first area for consideration in this volume and the contributors then examine to what extent the properties of clay match those required by the substance which acted as the template for life

Information Theory and Molecular Biology

1992-10-22

no one can escape a sense of wonder when looking at an organism from within from the humblest amoeba to man from the smallest cell organelle to the amazing human brain life presents us with example after example of highly ordered cellular matter precisely organized and shaped to perform coordinated functions but where does this order spring from how does a living organism manage to do what nonliving things cannot do bring forth and maintain all that order against the unrelenting disordering pressures of the universe in the touchstone of life world renowned biophysicist werner loewenstein seeks answers to these ancient riddles by applying information theory to recent discoveries in molecular biology taking us into a fascinating microscopic world he lays bare an all pervading communication network inside and between our cells a web of extraordinary beauty where molecular information flows in gracefully interlaced circles loewenstein then takes us on an exhilarating journey along that web and we meet its leading actors the macromolecules and see how they extract order out of the erratic quantum world and through the powerful lens of information theory we are let in on their trick the most dazzling of magician s acts whereby they steal form out of formlessness the touchstone of life flashes with fresh insights into the mystery of life boldly straddling the line between biology and physics the book offers a breathtaking view of that hidden world where molecular information turns the wheels of life loewenstein makes these complex scientific subjects lucid and fascinating as he sheds light on the most fundamental aspects of our existence

The Emergence of Biological Organization 1964

from simon schuster evolution from space is sir fred hoyle and chandra wickramasinghe s theory of cosmic creationism in this daring and fascinating sequel

to lifecloud and diseases from space evolution from space presents the revolutionary theory that mathematics can establish the probable existence of god and suggests that life began in space under the direction of a great intelligence

Blueprint for a Cell 1991

this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public to ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Clay Minerals and the Origin of Life 1986-12-18

the wonders of life is a book on the philosophy of biology by the world famous scientist ernst haeckel in this book haeckel further experiments with applying the philosophy of monism to the science of biology an effort he started in his book the riddle of the universe monism teaches that all the existing things have a common origin and are just different aspects of a uniform source the book regards different unities and forms of life how life is created and which laws it abides by

The Touchstone of Life 1999-01-07

what is life is nobel laureate erwin schrödinger s exploration of the question which lies at the heart of biology his essay mind and matter investigates what place consciousness occupies in the evolution of life and what part the state of development of the human mind plays in moral questions autobiographical sketches offers a fascinating fragmentary account of his life as a background to his scientific writings

***Evolution from Space* 1984-01-12**

Essays on Nucleic Acids 2018-10-15

Energy Flow in Biology 1968

The Life Puzzle: on Crystals and Organisms and on the Possibility of a Crystal as an Ancestor 1971

Origins 1987

The Wonders of Life: A Popular Study of Biological Philosophy 2022-05-29

The probabilistic revolution 1987

What is Life? 2012-03-26

Life Itself 1981

The Origins of Life 1973

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