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Physics of Life Reviews is a quarterly peer-reviewed scientific journal covering research on living systems. It was established in 2004 and is published by Elsevier. The editor-in-chief is Leonid Perlovsky (Harvard University).

Physics of Life Reviews - Wikipedia

Physics of Life Reviews ranks as #4 out of 84 journals in the Biophysics category in Journal Citation Reports 2013 (Thomson Reuters). About Elsevier Elsevier is a global information analytics business that helps scientists and clinicians to find new answers, reshape human knowledge, and tackle the most urgent human crises.

The purpose of the book is to give a survey of the physics that is relevant for biological applications, and also to discuss what kind of biology needs physics. The book gives a broad account of basic physics, relevant for the applications and various applications from properties of proteins to processes in the cell to wider themes such as the brain, the origin of life and evolution. It also considers general questions of common interest such as reductionism, determinism and randomness, where the physics view often is misunderstood. The subtle balance between order and disorder is a repeated theme appearing in many contexts. There are descriptive parts which shall be sufficient for the comprehension of general ideas, and more detailed, formalistic parts for those who want to go deeper, and see the ideas expressed in terms of mathematical formulas. - Describes how physics is needed for understanding basic principles of biology - Discusses the delicate balance between order and disorder in living systems - Explores how physics play a role high biological functions, such as learning and thinking

Reveals how recurring patterns in nature are accounted for by a single governing principle of physics, explaining how all designs in the world from biological life to inanimate systems evolve in a sequence of ever-improving designs that facilitate flow.

This work describes a mathematical concept of modelling field theory and its applications to a variety of problems, while offering a view of the relationships among mathematics, computational concepts in neural networks, semiotics, and concepts of mind in psychology and philosophy.

This book focuses on information literacy for the younger generation of learners and library readers. It is divided into four sections: 1. Information Literacy for Life; 2. Searching Strategies, Disciplines and Special Topics; 3. Information Literacy Tools for Evaluating and Utilizing Resources; 4. Assessment of Learning Outcomes. Written by librarians with wide experience in research and services, and a strong academic background in disciplines such as the humanities, social sciences, information technology, and library science, this valuable reference resource combines both theory and practice. In today's ever-changing era of information, it offers students of library and information studies insights into information literacy as well as learning tips they can use for life.

Galileo Galilei, His Life and His Works is a biographic of Galileo Galilei. The text accounts some of the most important moments of Galileo's life, along with his contribution in physics. The first part of the text covers the major aspects of Galileo's. Part I details Galileo's life as a student, professor, courtier, and author. Part II covers the major works of Galileo, such as magnetism, weight of air, alloy analysis, materials strength, falling bodies, and natural oscillations. The book will be of great interest to readers who have a keen interest in the history of physics.

Current students of philosophy or armchair philosophers... Want the answer to the Primordial Existential Question: Why is there something rather than nothing? While history has produced no shortage of attempted answers, clearly none is the answer. Now comes the unique perspective of acosmism to provide a complete and plausible answer. After a lifetime of reflection, acosmist Sherman O'Brien offers this analysis of the issues and a thoughtful, reasoned answer to philosophy's most vexing question. The acosmic answer requires no faith whatsoever, either in supernatural or unexplained causes; in fact, it discourages it. Acosmism rejects both traditional religion and philosophically neglectful science. As a metaphysical system, it is based on an epistemological insight, with implications for immortality, determinism, ethics, and ultimate purpose. Reasoned wholly from the ground up, its conclusion is the very meaning of existence. The solution to the Omniscience Riddle becomes the key to understanding how the question is best stated and understood. This book represents one person's effort to make sense of what is true and what only seems to be so. Why is there something rather than nothing? What is your potential role in the entirety of experience? This foray into acosmism offers a path to the genuine understanding of both existence and reality.

Natural computing brings together nature and computing to develop new computational tools for problem solving; to synthesize natural patterns and behaviors in computers; and to potentially design novel types of computers. Fundamentals of Natural Computing: Basic Concepts, Algorithms, and Applications presents a wide-ranging survey of novel techniques and important applications of nature-based computing. This book presents theoretical and philosophical discussions, pseudocodes for algorithms, and computing paradigms that illustrate how computational techniques can be used to solve complex problems, simulate nature, explain natural phenomena, and possibly allow the development of new computing technologies. The author features a consistent and approachable, textbook-style format that includes lucid figures, tables, real-world examples, and different types of exercises that complement the concepts while encouraging readers to apply the computational tools in each chapter. Building progressively upon core concepts of nature-inspired techniques, the topics include evolutionary computing, neurocomputing, swarm intelligence, immunocomputing, fractal geometry, artificial life, quantum computing, and DNA computing. Fundamentals of Natural Computing is a self-contained introduction and a practical guide to nature-based computational approaches that will find numerous applications in a variety of growing fields including engineering, computer science, biological modeling, and bioinformatics.

Advances in Quantum Chemistry presents surveys of current topics in this rapidly developing field one that has emerged at the cross section of the historically established areas of mathematics, physics, chemistry, and biology. It features detailed reviews written by leading international researchers. In this volume the readers are presented with an exciting combination of themes. Presents surveys of current topics in this rapidly-developing field that has emerged at the cross section of the historically established areas of mathematics, physics, chemistry and biology Features detailed reviews written by leading international researchers Topics include: New advances in Quantum Chemical Physics; Original theory and a contemporary overview of the field of Theoretical Chemical Physics; State-of-the-Art calculations in Theoretical Chemistry

Thermal Physics of the Atmosphere offers a concise and thorough introduction on how basic thermodynamics naturally leads on to advanced topics in atmospheric physics. The book starts by covering the basics of thermodynamics and its applications in atmospheric science. The later chapters describe major applications, specific to more specialized areas of atmospheric physics, including vertical structure and stability, cloud formation, and radiative processes. The book concludes with a discussion of non-equilibrium thermodynamics as applied to the atmosphere. This book provides a thorough introduction and invaluable grounding for specialised literature on the subject. Introduces a wide range of areas associated with atmospheric physics Starts from basic level thermal physics Ideally suited for readers with a general physics background Self-assessment questions included for each chapter Supplementary website to accompany the book

It seems to be a strange enterprise to attempt write a physics book about a single number. It was not my idea to do so, but why not. In mathematics, maybe, one would write a book about π . Certainly, the moon's anomalous magnetic moment is a very special number and today reflects almost the full spectrum of effects incorporated in today's Standard Model (SM) of fundamental interactions, including the electromagnetic, the weak and the strong forces. The moon g_2 , how it is also called, is a truly fascinating theme both from an experimental and from a theoretical point of view and it has played a crucial role in the development of QED which finally developed into the SM by successive inclusion of the weak and the strong interactions. The topic has fascinated a large number of particle physicists, last but not least it was always a benchmark for theory as a monitor for effects beyond what was known at the time. As an example, nobody could believe that a muon is just a heavy version of an electron; why should nature repeat itself, it hardly can make sense.