

Mikhail V. Volkenstein

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# Physical Approaches to Biological Evolution

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# Physical Approaches To Biological Evolution

**Shigeki Mitaku, Ryusuke Sawada**



## **Physical Approaches To Biological Evolution:**

**Physical Approaches to Biological Evolution** Mikhail V. Volkenstein, 2012-12-06 Mr Volkenstein's Physical Approaches to Biological Evolution whether or not it proves to give the ultimate truth on the matters with which it deals certainly deserves by its breadth and scope and profundity to be considered an important event in the philosophical world This is a quotation from an introduction written by Bertrand Russell for Ludwig Wittgenstein's Tractatus Logico Philosophicus I exchanged only name and subject As for the rest I could continue quoting Russell but I would rather say something myself As Wittgenstein did with formal logic Volkenstein rectifies our views on how to approach the logic of life from a formal theoretical basis Many biologists do not believe that their subject lends itself to the scrutiny of physical theory They certainly admit that one can simulate biological phenomena by models that can be expressed in a mathematical form However they do not believe that biology can be given a theoretical foundation that is defined within the general framework of physics Rather they insist on a holistic approach banning any reduction to fundamental principles subject to physical theory

**Physics of Self-Organization and Evolution** Werner Ebeling, Rainer Feistel, 2011-10-17 This thoroughly updated version of the German authoritative work on self organization has been completely rewritten by internationally renowned experts and experienced book authors to also include a review of more recent literature It retains the original enthusiasm and fascination surrounding thermodynamic systems far from equilibrium synergetics and the origin of life representing an easily readable book and tutorial on this exciting field The book is unique in covering in detail the experimental and theoretical fundamentals of self organizing systems as well as such selected features as random processes structural networks and multistable systems while focusing on the physical and theoretical modeling of natural selection and evolution processes The authors take examples from physics chemistry biology and social systems and include results hitherto unpublished in English The result is a one stop resource relevant for students and scientists in physics or related interdisciplinary fields including mathematical physics biophysics information science and nanotechnology

**Stochastic Dynamics Of Reacting Biomolecules** Werner Ebeling, Yuri M Romanovsky, Lutz Schimansky-geier, 2003-01-29 This is a book about the physical processes in reacting complex molecules particularly biomolecules In the past decade scientists from different fields such as medicine biology chemistry and physics have collected a huge amount of data about the structure dynamics and functioning of biomolecules Great progress has been achieved in exploring the structure of complex molecules However there is still a lack of understanding of the dynamics and functioning of biological macromolecules In particular this refers to enzymes which are the basic molecular machines working in living systems This book contributes to the exploration of the physical mechanisms of these processes focusing on critical aspects such as the role of nonlinear excitations and of stochastic effects An extensive range of original results has been obtained in the last few years by the authors and these results are presented together with a comprehensive survey of the state of the art in the field

*The Routledge Handbook of*

*Evolutionary Approaches to Religion* Yair Lior, Justin Lane, 2022-11-30 The past two decades have seen a growing interest in evolutionary and scientific approaches to religion The Routledge Handbook of Evolutionary Approaches to Religion is an outstanding reference source to the key topics problems and debates in this exciting and emerging field Comprising over thirty chapters by a team of international contributors the handbook pulls together scholarship in the following areas evolutionary psychology and the cognitive science of religion CSR cultural evolution the complementarity of evolutionary psychology cognitive science and cultural evolution Within these sections central issues debates and problems are examined including Cliodynamics cultural group selection costly signaling dual inheritance theory literacy transmitting narratives prosociality supernatural punishment cognition and ritual meme theory fusion theory sexual selection agency detection evoked culture social brain hypothesis theory of mind developmental psychology emergence theory social learning cultural cybernetics cultural epidemiology evolutionary and cultural psychology memetics by product and adaptationist theories of religion systems and information theory and computer modeling This Handbook is essential reading for students and researchers in religious studies and anthropology It will also be very useful to those in related fields such as psychology sociology of religion cognitive biology and evolutionary biology

*Concepts and Methods in Evolutionary Biology* Robert N. Brandon, 1996 This collection of Professor Brandon's recent essays covers all the traditional topics in the philosophy of evolutionary biology

*Quasispecies: From Theory to Experimental Systems* Esteban Domingo, Peter Schuster, 2016-03-18 This volume brings together recent developments in quasispecies theory extended to variable environments and practical applications in elucidating viral dynamics and treatment designs In particular the existence of an error threshold in rugged fitness landscapes has opened the way to a new antiviral strategy termed lethal mutagenesis which is now under intensive theoretical experimental and clinical investigation As such the book explains how an understanding of quasispecies dynamics within infected organisms has increased our knowledge of viral disease events From a clinical perspective population dynamics highlights important problems for viral disease control such as the selection of drug resistant mutants that often accompanies treatment failures and suggests means of increasing the effectiveness of antiviral treatments The book is intended for students and scientists interested in basic and applied aspects of biophysics chemistry biology evolution and medical virology

*Giant Molecules: Here, There, And Everywhere (2nd Edition)* Alexander Y Grosberg, Alexei R Khokhlov, 2010-09-24 Giant molecules are important in our everyday life But as pointed out by the authors they are also associated with a culture What Bach did with the harpsichord Kuhn and Flory did with polymers We owe a lot of thanks to those who now make this music accessible Pierre Gilles de Gennes Nobel Prize laureate in Physics Foreword for the 1st Edition March 1996 This book describes the basic facts concepts and ideas of polymer physics in simple yet scientifically accurate terms In both scientific and historic contexts the book shows how the subject of polymers is fascinating as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials No mathematics is used

in the book beyond modest high school algebra and a bit of freshman calculus yet very sophisticated concepts are introduced and explained ranging from scaling and reptations to protein folding and evolution The new edition includes an extended section on polymer preparation methods discusses knots formed by molecular filaments and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution

*Molecular Modeling and Theory in Chemical Engineering* James Wei, Morton M. Denn, John H. Seinfeld, Arup Chakraborty, Jackie Ying, Nicholas Peppas, George Stephanopoulos, 2001-12-18 In recent years chemical engineers have become increasingly involved in the design and synthesis of new materials and products as well as the development of biological processes and biomaterials Such applications often demand that product properties be controlled with precision Molecular modeling simulating chemical and molecular structures or processes by computer aids scientists in this endeavor Volume 28 of *Advances in Chemical Engineering* presents discussions of theoretical and computational methods as well as their applications to specific technologies

Artificial Evolution Jin-Kao Hao, 1998-02-18 The volume presents a survey of the state of the art in artificial evolution covering theoretical issues methodologies and applications in various areas including genetic algorithm operators and evolvable hardware and robotics

Biophysics Roland Glaser, 2013-12-20 Biophysics the science of physical principles of life itself of biological systems is presented here not merely as physics for biologists but as an entirely independent subject with its own innate network of ideas and approaches From the microscopic forces that constitute life the intramolecular bonds and ionic interactions to the macroscopic forces of the environment temperature and pressure the author presents and explains all aspects of life from a Biophysicist's point of view Exciting biological themes such as neuronal processing and differentiation as well as current medical and environmental topics are introduced from a surprising perspective in this imaginative new textbook

Annual Reviews of Computational Physics III Dietrich Stauffer, 1995-10-01 This series of books covers all areas of computational physics collecting together reviews where a newcomer can learn about the state of the art regarding methods and results Articles are submitted by e mail before deadlines which are kept by the editor Biologically motivated simulations glasses world record molecular dynamics deposition on surfaces and hydrodynamics are discussed in this volume which ends with an explanation of elementary particle physics QCD and their phase transitions

**Advances in Methods and Applications of Quantum Systems in Chemistry, Physics, and Biology** Alexander V. Glushkov, Olga Yu. Khetselius, Jean Maruani, Erkki Brändas, 2021-06-29 This book reviews the most significant advances in concepts methods and applications of quantum systems in a broad variety of problems in modern chemistry physics and biology In particular it discusses atomic molecular and solid structure dynamics and spectroscopy relativistic and correlation effects in quantum chemistry topics of computational chemistry physics and biology as well as applications of theoretical chemistry and physics in advanced molecular and nano materials and biochemical systems The book contains peer reviewed contributions written by leading

experts in the fields and based on the presentations given at the Twenty Fourth International Workshop on Quantum Systems in Chemistry Physics and Biology held in Odessa Ukraine in August 2019 This book is aimed at advanced graduate students academics and researchers both in university and corporation laboratories interested in state of the art and novel trends in quantum chemistry physics biology and their applications Dynamics Of Complex Systems Yaneer Bar-yam,2019-03-04

This book aims to develop models and modeling techniques that are useful when applied to all complex systems It adopts both analytic tools and computer simulation The book is intended for students and researchers with a variety of backgrounds

**Fractals, Applied Synergetics and Structure Design** V. S. Ivanova,V. U. Novikov,A. A. Oksogoev,2005 Non linear systems behaviours are discussed in this book from the point of new scientific approaches to the interdisciplinary nature of the fractal geometry and synergetics Fractal analysis synergetics methods and mathematical design are considered according to actual problems of condensed media physics mechanics material science and geology **Evolution Seen from the Phase**

**Diagram of Life** Shigeki Mitaku,Ryusuke Sawada,2024-02-20 This book aims to understand biological evolution through a physical approach focusing on the macroscopic aspects of the biological genome Readers will discover the connection between genomic information and the harmony of biological systems a relationship that remains elusive to many researchers in biological sciences The most common approach to understanding living organisms with physics is to begin with a single molecule of an organism In contrast to this bottom up approach building from each molecule to the whole this book takes a coarse grained approach at the amino acid level to physically understand the macroscopic aspects of the organism The book presents a system developed by the authors to predict membrane proteins with high accuracy using only physical parameters Another distinctive perspective of this book is that it proposes the idea of a physical mechanism other than natural selection that orchestrates the emergence of order from random processes The study of macroscopic aspects of living organisms based on this concept has parallels with thermostatistical mechanics for states of matter Just as random processes create order in matter there are physical random processes that form order in living organisms This analogy is the central theme of the book Using terms and analogies familiar to physicists the book bridges the gap between biological and physical sciences The book focuses on simple principles and is aimed primarily at researchers While the content of this book is at the boundary area of biophysics soft matter physics and bioinformatics it will also be of interest to researchers and graduate students working on any biological topics Quasispecies: Concept and Implications for Virology Esteban Domingo,2006-02-19 Continuous

genetic variation and selection of virus subpopulations in the course of RNA virus replications are intimately related to viral disease mechanisms The central topics of this volume are the origins of the quasispecies concept and the implications of quasispecies dynamics for viral populations Theory and Implementation of Economic Models for Sustainable Development J.C. van den Bergh,M.W. Hofkes,2013-03-09 There is widespread concern for long term environmental issues in relation to economic processes and developments Among the concerned scientists are economists who have taken up the

challenge to apply economic insights and tools for the study of long term environment economy interactions and to give the concept of sustainable development economic hands and feet This book presents a pluralistic perspective on efforts problems and successes in this area This collection of papers was originally prepared for an international symposium titled Economic Modelling of Sustainable Development Between Theory and Practice which was hosted by the Vrije Universiteit in Amsterdam on December 20th 1996 The main motivation for this symposium was that the usefulness of the concept of sustainable development for theoretical and applied modelling is still being debated growth theorists resource economists ecological economists policy makers and many others are trying to deal with the concept in various and sometimes conflicting ways The aim of the symposium was to bring together different theoretical and implementational perspectives on modelling for sustainable development We hope that this volume will inform a wide audience about the perspectives and progress in this important area of research as well as stimulate further research notably on applied modelling and practical methods for the analysis of sustainable development at various spatial scales The papers have in due course been revised several times based on comments made by discussants referees and the editors

**Methods and Applications of Geochronology** Gregory Shellnutt, Steve Denyszyn, Kenshi Suga, 2024-03-12 Methods and Applications of Geochronology provides a comprehensive practical guide to the rapidly developing field of geochronology Chapters are written by leading experts in their specific field of geochronology and discuss practical information and rules of thumb for establishing laboratories and using analytical equipment Methods and Applications of Geochronology is an authoritative guide not only for the foundational principles of geochronological research but also descriptions of analytical methods guidance for sample selection all the way to data reduction and presentation Features the latest techniques and recommended tools for each of the most common geochronological methods Includes perspectives from a variety of well respected researchers in the field each representing different specialties of geochronology Bridges the gap between theory and application offering best practices and relevant case studies throughout

**Proteins** David Whitford, 2013-04-25 Proteins Structure and Function is a comprehensive introduction to the study of proteins and their importance to modern biochemistry Each chapter addresses the structure and function of proteins with a definitive theme designed to enhance student understanding Opening with a brief historical overview of the subject the book moves on to discuss the building blocks of proteins and their respective chemical and physical properties Later chapters explore experimental and computational methods of comparing proteins methods of protein purification and protein folding and stability The latest developments in the field are included and key concepts introduced in a user friendly way to ensure that students are able to grasp the essentials before moving on to more advanced study and analysis of proteins An invaluable resource for students of Biochemistry Molecular Biology Medicine and Chemistry providing a modern approach to the subject of Proteins

**The Third Law of Evolution and The Future of Life** Gerard A. J. M. Jagers op Akkerhuis, 2024-11-25 This book offers a step by step introduction to an integrated theory of

physical and biological evolution from the early universe to the world we know today To this end the well known laws of variation and selection are supplemented by a third law This law describes the increase in complexity based on the transitions from quarks to hadrons to atoms to molecules to bacteria to eukaryotic cells and so on These insights revolutionize existing theoretical frameworks for analyzing organization in nature accelerating developments in natural philosophy In this way the author develops a basic framework for thinking about evolution which can be applied to current debates in various research fields For example the new approach finally helps to find the systems based definitions of organism and life that have been sought for so long By extrapolating the framework one can even hypothesize about future evolution and our place as humans in it An exciting read for both philosophers and scientists

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