



Evolving Hierarchical Systems

Stanley N. Salthe

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Evolving Hierarchical Systems Stanley N. Salthe, 2010-06-01 *Evolving Hierarchical Systems* Stanley N. Salthe, 1985 **Memory Evolutive Systems; Hierarchy, Emergence, Cognition** A C Ehresmann, J.P. Vanbremersch, 2007-05-25 *Memory Evolutive Systems Hierarchy Emergence Cognition* provides comprehensive and comprehensible coverage of Memory Evolutive Systems MEM Written by the developers of the MEM the book proposes a mathematical model for autonomous evolutionary systems based on the Category Theory of mathematics It describes a framework to study and possibly simulate the structure of living systems and their dynamic behavior This book contributes to understanding the multidisciplinary interfaces between mathematics cognition consciousness biology and the study of complexity It is organized into three parts Part A deals with hierarchy and emergence and covers such topics as net of interactions and categories the binding problem and complexifications and emergence Part B is about MEM while Part C discusses MEM applications to cognition and consciousness The book explores the characteristics of a complex evolutionary system its differences from inanimate physical systems and its functioning and evolution in time from its birth to its death This book is an ideal reference for researchers teachers and students in pure mathematics computer science cognitive science study of complexity and systems theory Category Theory biological systems theory and consciousness theory It would also be of interest to both individuals and institutional libraries Comprehensive and comprehensible coverage of Memory Evolutive System Written by the developers of the Memory Evolutive Systems Designed to explore the common language between sciences Evolutionary Systems G. Vijver, Stanley N. Salthe, M. Delpo, 2013-04-17 The three well known revolutions of the past centuries the Copernican the Darwinian and the Freudian each in their own way had a deflating and mechanizing effect on the position of humans in nature They opened up a richness of disillusion earth acquired a more modest place in the universe the human body and mind became products of a long material evolutionary history and human reason instead of being the central immaterial locus of understanding was admitted into the theater of discourse only as a materialized and frequently out of control actor Is there something objectionable to this picture Formulated as such probably not Why should we resist the idea that we are in certain ways and to some degree physically biologically or psychically determined Why refuse to acknowledge the fact that we are materially situated in an ever evolving world Why deny that the ways of inscription traces of past events and processes are co determinative of further evolutionary pathways Why minimize the idea that each intervention of each natural being is temporally and materially situated and has as such the inevitable consequence of changing the world The point is however that there are many more or less radically different ways to consider the mechanization of man and nature There are in particular many ways to get the message of material and evolutionary determination as well as many levels at which this determination can be thought of as relevant or irrelevant

The Multilevel Design Harry Jm Huttner, Pieter van den Eeden, 1995-01-30 In the social sciences phenomena tend to be

hierarchically structured so that individuals belong to groups and groups belong to larger organizations and societies. Multilevel research stresses this hierarchical structure of social life and necessarily assumes the existence of a particular organization of the procedures of investigation. This organization which is fundamental to the research is called a research design. Because the research is hierarchical it uses a multilevel design. This book provides a detailed overview of the theoretical and methodological aspects of multilevel research based on the multilevel definition of social structure. Six chapters discuss the foundations of multilevel research and the applications of its research in the social sciences. An annotated bibliography follows which is divided into eight sections on theoretical and methodological issues and on applications of multilevel research. Included are books and articles published from 1980 through 1993. **Biological**

Complexity and Integrative Pluralism Sandra D. Mitchell, 2003-09-15. This fine collection of essays by a leading philosopher of science presents a defense of integrative pluralism as the best description for the complexity of scientific inquiry today. The tendency of some scientists to unify science by reducing all theories to a few fundamental laws of the most basic particles that populate our universe is ill suited to the biological sciences which study multi component multi level evolved complex systems. This book will be of interest to students and professionals in the philosophy of science.

Introduction to Aquifer Analysis Michael Kasenow, 1997. *Complexity in Chemistry, Biology, and Ecology* Danail D. Bonchev, Dennis Rouvray, 2007-05-03. As we were at pains to point out in the companion volume to this monograph entitled *Complexity in Chemistry: Introduction and Fundamentals* complexity is to be encountered just about everywhere. All that is needed for us to see it is as suitably trained an eye and it then appears almost magically in all manner of guises. Because of its ubiquity complexity has been and currently still is being defined in a number of different ways. Some of these definitions have led us to major and powerful new insights. Thus even in the present monograph the important distinction is drawn between the interpretations of the concepts of complexity and complication and this is shown to have a significant bearing on how systems are modeled. Having said this however we should not fail to mention that the broad consensus that now gained acceptance is that all of the definitions of complexity are in the last analysis to be understood in essentially intuitive terms. Such definitions will therefore always have a certain degree of fuzziness associated with them. But this latter desideratum should in no way be viewed as diminishing the great usefulness of the concept in any of the many scientific disciplines to which it can be applied. In the chapters that are included in this monograph the fact that differing concepts of complexity can be utilized in a variety of disciplines is made explicit. The specific disciplines that we embrace herein are chemistry, biochemistry, biology and ecology. Chapter 1, *On the Complexity of Fullerenes and Nanotubes* is written by an international team of scientists led by Milan Randić. **Bioregionalism and Global Ethics** Richard Evanoff, 2010-09-13. While a number of schools of environmental thought including social ecology, ecofeminism, ecological Marxism, ecoanarchism and bioregionalism have attempted to link social issues to a concern for the environment, environmental ethics as an academic discipline has tended to focus more

narrowly on ethics related either to changes in personal values or behavior or to the various ways in which nature might be valued What is lacking is a framework in which individual social and environmental concerns can be looked at not in isolation from each other but rather in terms of their interrelationships In this book Evanoff aims to develop just such a philosophical framework one in which ethical questions related to interactions between self society and nature can be discussed across disciplines and from a variety of different perspectives The central problem his study investigates is the extent to which a dichotomized view of the relationship between nature and culture perpetuated in ongoing debates over anthropocentric vs ecocentric approaches to environmental ethics might be overcome through the adoption of a transactional perspective which offers a more dynamic and coevolutionary understanding of how humans interact with their natural environments Unlike anthropocentric approaches to environmental ethics which often privilege human concerns over ecological preservation and some ecocentric approaches which place more emphasis on preserving natural environments than on meeting human needs a transactional approach attempts to create more symbiotic and less conflictual modes of interaction between human cultures and natural environments which allow for the flourishing of both

Collective Beings Gianfranco Minati, Eliano Pessa, 2006-12-26 Microscopic models 226 The intrinsic limitations of the theory of phase transitions 229 5 3 Quantum Field Theory 230 5 4 Spontaneous Symmetry Breaking 239 5 5 Non ideal models of emergence 249 5 5 1 Neural networks 250 5 5 2 Cellular Automata 261 5 5 3 Artificial Life 265 5 6 The role of noise 273 5 7 The relationships between traditional and non traditional models 279 Chapter 6 The Role of Ergodicity 291 6 1 Some definitions related to ergodicity 293 6 1 1 Ergodic 293 6 1 2 Disciplinary definitions 293 6 2 Ergodicity and stationarity 300 6 3 Ergodicity in Collective Beings 302 6 4 Emergence Collective Beings and Ergodicity 306 6 5 Further considerations 309 6 6 Some remarks and possible lines of research 313 Chapter 7 Applications to Social Systems 1 growth development sustainable development and ethics 321 7 1 Growth Development and Sustainable Development 323 7 1 1 Representing Growth 324 7 1 2 Development 326 7 1 3 Managing for development 334 7 2 Ethics 336 7 2 1 Ethics and Quality 340 7 2 2 Effectiveness and advantages of Ethics 342 7 2 3 Ethics for quality and effectiveness 343 7 2 4 Ethics and Globalization 346 viii Contents Chapter 8 Applications to Social Systems 2 systems archetypes virtual systems knowledge management organizational learning industrial districts 353 8 1 Systems archetypes and collective beings 353 8 2 Virtual systems 359 8 2

Scaling in Integrated Assessment D.S. Rothman, J. Rotmans, 2005-08-09 A collection of papers prepared for the European Forum on Integrated Environmental Assessment s EFIEA Policy Workshop on Scaling Issues in Integrated Assessment held from 12 19 July 2000

Unfinished Synthesis Niles Eldredge, 1985-11-21 This study provides a stimulating critique of contemporary evolutionary thought analyzing the Modern Synthesis first developed by Theodosius Dobzhansky Ernst Mayr and George Gaylord Simpson The author argues that although only genes and organisms are taken as historic individuals in conventional theory species higher taxa and ecological entities such as populations and communities should also be construed as individuals an approach that yields the

ecological and genealogical hierarchies that interact to produce evolution This clearly stated controversial work will provoke much debate among evolutionary biologists systematists paleontologists and ecologists as well as a wide range of educated lay readers

Macroecology James H. Brown, 1995-06 In *Macroecology* James H Brown proposes a radical new research agenda designed to broaden the scope of ecology to encompass vast geographical areas and very long time spans While much ecological research is narrowly focused and experimental providing detailed information that cannot be used to generalize from one ecological community or time period to another macroecology draws on data from many disciplines to create a less detailed but much broader picture with greater potential for generalization Integrating data from ecology systematics evolutionary biology paleobiology and biogeography to investigate problems that could only be addressed on a much smaller scale by traditional approaches macroecology provides a richer more complete understanding of how patterns of life have moved across the earth over time Brown also demonstrates the advantages of macroecology for conservation showing how it allows scientists to look beyond endangered species and ecological communities to consider the long history and large geographic scale of human impacts An important reassessment of the direction of ecology by one of the most influential thinkers in the field this work will shape future research in ecology and other disciplines This approach may well mark a major new turn in the road in the history of ecology and I find it extremely exciting The scope of *Macroecology* is tremendous and the book makes use of its author's exceptionally broad experience and knowledge An excellent and important book Lawrence R Heaney Center for Environmental and Evolutionary Biology the Field Museum

Ecology Revisited Astrid Schwarz, Kurt Jax, 2011-03-18 As concerns about humankind's relationship with the environment move inexorably up the agenda this volume tells the story of the history of the concept of ecology itself and adds much to the historical and philosophical debate over this multifaceted discipline The text provides readers with an overview of the theoretical institutional and historical formation of ecological knowledge The varied local conditions of early ecology are considered in detail while epistemological problems that lie on the borders of ecology such as disunity and complexity are discussed The book traces the various phases of the history of the concept of ecology itself from its 19th century origins and antecedents through the emergence of the environmental movement in the later 20th century to the future and how ecology might be located in the environmental science framework of the 21st century The study of ecological phenomena has never been confined solely to the work of researchers who consider themselves ecologists It is rather a field of knowledge in which a plurality of practices concepts and theories are developed Thus there exist numerous disciplinary subdivisions and research programmes within the field the boundaries of which remain blurred As a consequence the deliberation to adequately identify the ecological field of knowledge its epistemic and institutional setting is still going on This will be of central importance not only in locating ecology in the frame of 21st century environmental sciences but also for a better understanding of how nature and culture are intertwined in debates about pressing problems such as climate change the

protection of species diversity or the management of renewable resources **A Companion to the Philosophy of Biology**
 Sahotra Sarkar, Anya Plutynski, 2010-11-08 A COMPANION TO THE PHILOSOPHY OF BIOLOGY Sarkar is to be congratulated for assembling this talented team of philosophers who are themselves to be congratulated for writing these interesting essays on so many fascinating areas in philosophy of biology This book will be a wonderful resource for future work Elliot Sober University of Wisconsin Madison Many of the discussions here start with a definition of terms and a historical context of the subject before delving into the deeper philosophical issues making it a useful reference for students of biology as well as philosophy Northeastern Naturalist The topics that are addressed are done so well This book will appeal to the advanced student and knowledgeable amateur and may prove useful catalyst for discussion among research teams or those engaged in cross disciplinary studies Reference Reviews A Companion to the Philosophy of Biology offers concise overviews of philosophical issues raised by all areas of biology Addressing both traditional and emerging areas of philosophical interest the volume focuses on the philosophical implications of evolutionary theory as well as key topics such as molecular biology immunology and ecology Comprising essays by top scholars in the field this volume is an authoritative guide for professional philosophers historians sociologists and biologists as well as an accessible reference work for students seeking to learn about this rapidly changing field *Biophysics Of Consciousness: A Foundational Approach* Roman R Poznanski, Jack A Tuszynski, Todd E Feinberg, 2016-08-25 The problem of how the brain produces consciousness subjectivity and something it is like to be remains one of the greatest challenges to a complete science of the natural world While various scientists and philosophers approach the problem from their own unique perspectives and in the terms of their own respective fields Biophysics of Consciousness A Foundational Approach attempts a consilience across disparate disciplines to explain how it is possible that an objective brain produces subjective experience This volume unites the cr me de la cr me of physicists neuroscientists and psychiatrists in the attempt to understand consciousness through a foundational approach encompassing ontological evolutionary neurobiological and Freudian interpretations with the focus on conscious phenomena occurring in the brain By integrating the perspectives of these diverse disciplines with the latest research and theories on the biophysics of the brain the book tries to explain how consciousness can be an adaptive and causal element in the natural world

Ecological Understanding Steward T.A. Pickett, Jurek Kolasa, Clive G. Jones, 2013-10-22 Ecology is an historical science in which theories can be as difficult to test as they are to devise This volume intended for ecologists and evolutionary biologists reviews ecological theories and how they are generated evaluated and categorized Synthesizing a vast and sometimes labyrinthine literature this book is a useful entry into the scientific philosophy of ecology and natural history The need for integration of the contributions to theory made by different disciplines is a central theme of this book The authors demonstrate that only through such integration will advances in ecological theory be possible Ecologists evolutionary biologists and other serious students of natural history will want this book *Complexity Theory for a Sustainable Future*

Jon Norberg, Graeme Cumming, 2008-07-11 Complexity theory illuminates the many interactions between natural and social systems providing a better understanding of the general principles that can help solve some of today's most pressing environmental issues. Complexity theory was developed from key ideas in economics, physics, biology, and the social sciences and contributes to important new concepts for approaching issues of environmental sustainability such as resilience, scaling, and networks. Complexity Theory for a Sustainable Future is a hands-on treatment of this exciting new body of work and its applications, bridging the gap between theoretical and applied perspectives in the management of complex adaptive systems. Focusing primarily on natural resource management and community-based conservation, the book features contributions by leading scholars in the field, many of whom are among the leaders of the Resilience Alliance. Theoreticians will find a valuable synthesis of new ideas on resilience, sustainability, asymmetries, information processing, scaling, and networks. Managers and policymakers will benefit from the application of these ideas to practical approaches and empirical studies linked to social-ecological systems. Chapters present new twists on such existing approaches as scenario planning, scaling analyses, and adaptive management, and the book concludes with recommendations on how to manage natural resources, how to involve stakeholders in the dynamics of a system, and how to explain the difficult topic of scale. A vital reference for an emerging discipline, this volume provides a clearer understanding of the conditions required for systems self-organization, since the capacity of any system to self-organize is crucial for its sustainability over time.

Levels of Organization in the Biological Sciences Daniel S. Brooks, James DiFrisco, William C. Wimsatt, 2021-08-24 Scientific philosophers examine the nature and significance of levels of organization, a core structural principle in the biological sciences. This volume examines the idea of levels of organization as a distinct object of investigation, considering its merits as a core organizational principle for the scientific image of the natural world. It approaches levels of organization roughly the idea that the natural world is segregated into part-whole relationships of increasing spatiotemporal scale and complexity in terms of its roles in scientific reasoning as a dynamic, open-ended idea capable of performing multiple overlapping functions in distinct empirical settings. The contributors, scientific philosophers with longstanding ties to the biological sciences, discuss topics including the philosophical and scientific contexts for an inquiry into levels, whether the concept can actually deliver on its organizational promises, the role of levels in the development and evolution of complex systems, conditional independence and downward causation, and the extension of the concept into the sociocultural realm. Taken together, the contributions embrace the diverse usages of the term as aspects of the big picture of levels of organization. Contributors: Jan Baedke, Robert W. Batterman, Daniel S. Brooks, James DiFrisco, Markus I. Eronen, Carl Gillett, Sara Green, James Griesemer, Alan C. Love, Angela Potochnik, Thomas Reydon, Ilya T. Mkin, Jon Umerez, William C. Wimsatt, James Woodward.

Science as a Process David L. Hull, 2010-12-15 Legend is overdue for replacement, and an adequate replacement must attend to the process of science as carefully as Hull has done. I share his vision of a serious account of the social and intellectual dynamics of science that will avoid both the rosy

blur of Legend and the facile charms of relativism Because of Hull's deep concern with the ways in which research is actually done *Science as a Process* begins an important project in the study of science It is one of a distinguished series of books which Hull himself edits Philip Kitcher *Nature* In *Science as a Process* David Hull argues that the tension between cooperation and competition is exactly what makes science so successful Hull takes an unusual approach to his subject He applies the rules of evolution in nature to the evolution of science arguing that the same kinds of forces responsible for shaping the rise and demise of species also act on the development of scientific ideas Natalie Angier *New York Times Book Review* By far the most professional and thorough case in favour of an evolutionary philosophy of science ever to have been made It contains excellent short histories of evolutionary biology and of systematics the science of classifying living things an important and original account of modern systematic controversy a counter attack against the philosophical critics of evolutionary philosophy social psychological evidence collected by Hull himself to show that science does have the character demanded by his philosophy and a philosophical analysis of evolution which is general enough to apply to both biological and historical change Mark Ridley *Times Literary Supplement* Hull is primarily interested in how social interactions within the scientific community can help or hinder the process by which new theories and techniques get accepted The claim that science is a process for selecting out the best new ideas is not a new one but Hull tells us exactly how scientists go about it and he is prepared to accept that at least to some extent the social activities of the scientists promoting a new idea can affect its chances of being accepted Peter J Bowler *Archives of Natural History* I have been doing philosophy of science now for twenty five years and whilst I would never have claimed that I knew everything I felt that I had a really good handle on the nature of science Again and again Hull was able to show me just how incomplete my understanding was Moreover *Science as a Process* is one of the most compulsively readable books that I have ever encountered Michael Ruse *Biology and Philosophy*

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