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# EMERGENT EVOLUTION

## Qualitative Novelty and the Levels of Reality

by

DAVID BLITZ

*Central Connecticut State University, U.S.A.*



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# Emergent Evolution Qualitative Novelty And The Levels Of Reality

**Sergio Albeverio, Elisa  
Mastrogiacomo, Emanuela Rosazza  
Gianin, Stefania Ugolini**



## **Emergent Evolution Qualitative Novelty And The Levels Of Reality:**

Emergent Evolution David Blitz, 2013-03-09 Emergent evolution combines three separate but related claims whose background origin and development I trace in this work firstly that evolution is a universal process of change one which is productive of qualitative novelties secondly that qualitative novelty is the emergence in a system of a property not possessed by any of its parts and thirdly that reality can be analyzed into levels each consisting of systems characterized by significant emergent properties In part one I consider the background to emergence in the 19th century discussion of the philosophy of evolution among its leading exponents in England Charles Darwin Herbert Spencer T H Huxley Alfred Russel Wallace and G J Romanes Unlike the scientific aspect of the debate which aimed to determine the factors and causal mechanism of biological evolution this aspect of the debate centered on more general problems which form what I call the philosophical framework for evolutionary theory This considers the status of continuity and discontinuity in evolution the role of qualitative and quantitative factors in change the relation between the organic and the inorganic the relation between the natural and the supernatural the mind body problem and the scope of evolution including its extension to ethics and morals *Emergent Evolution* David Blitz, 2014-01-15 This volume examines the background origin and debate over emergent evolution a philosophy of evolution developed by the comparative psychologist C Lloyd Morgan Part One studies the 19th century background in the debate over the philosophical framework for evolutionary theory in the writings of Darwin Spencer Huxley Wallace and G J Romanes Questions examined include the continuity of the evolutionary process the status of qualitative as well as quantitative change the scope of evolution and its metaphysical implications Part Two traces Lloyd Morgan's development of emergent evolution as a philosophy relating the various sciences and its main thesis that qualitative novelty can occur in the course of a continuous universal and monistic evolutionary process proceeding from the material level to those of life and mind The third part traces the debate over emergent evolution and argues that despite its temporary eclipse by reductionist and physicalist philosophies in the period from the mid 1930s to the mid 1950s emergent evolution is an active trend of thought at the interface between philosophy and science **The Return of Nature** John Bellamy Foster, 2021-06-01 Winner 2020 Isaac and Tamara Deutscher Memorial Prize A fascinating reinterpretation of the radical and socialist origins of ecology Twenty years ago John Bellamy Foster's *Marx's Ecology Materialism and Nature* introduced a new understanding of Karl Marx's revolutionary ecological materialism More than simply a study of Marx it commenced an intellectual and social history encompassing thinkers from Epicurus to Darwin who developed materialist and ecological ideas Now with *The Return of Nature Socialism and Ecology* Foster continues this narrative In so doing he uncovers a long history of the efforts to unite questions of social justice and environmental sustainability and helps us comprehend and counter today's unprecedented planetary emergencies *The Return of Nature* begins with the deaths of Darwin 1882 and Marx 1883 and moves on until the rise of the ecological age in the 1960s and 1970s Foster explores how socialist analysts

and materialist scientists of various stamps first in Britain then the United States from William Morris and Frederick Engels to Joseph Needham Rachel Carson and Stephen J Gould sought to develop a dialectical naturalism rooted in a critique of capitalism In the process he delivers a far reaching and fascinating reinterpretation of the radical and socialist origins of ecology Ultimately what this book asks for is nothing short of revolution a long ecological revolution aimed at making peace with the planet while meeting collective human needs

**Natural Fabrications** William Seager,2012-08-13 The spectacular success of the scientific enterprise over the last four hundred years has led to the promise of an all encompassing vision of the natural world In this elegant picture everything we observe is based upon just a few fundamental processes and entities The almost infinite variety and complexity of the world is thus the product of emergence But the concept of emergence is fraught with controversy and confusion This book ponders the question of how emergence should be understood within the scientific picture and whether a complete vision of the world can be attained that includes consciousness

*Nature's Magic* Peter Corning,2003-05-05 Nature s Magic presents a bold vision of the evolutionary process from the Big Bang to the 21st century Synergy of various kinds is not only a ubiquitous aspect of the natural world but it has also been a wellspring of creativity and the driver of the broad evolutionary trend toward increased complexity in nature and human societies alike But in contrast with the many theories of emergence or complexity that rely on some underlying force or law the Synergism Hypothesis as Peter Corning calls it is in essence an economic theory of biological complexity it is fully consistent with mainstream evolutionary biology Corning refers to it as Holistic Darwinism Among the many important insights that are provided by this new paradigm Corning presents a scenario in which the human species invented itself synergistic behavioral and technological innovations were the pacemakers of our biological evolution Synergy has also been the key to the evolution of complex modern societies he concludes

**Social Networks and Natural Resource Management** Örfan Bodin,Christina Prell,2011-08-04 Social Network Analysis SNA a quantitative approach to the study of social relations has recently emerged as a key tool for understanding the governance of natural resources Bringing together contributions from a range of researchers in the field this is the first book to fully explore the potential applications of SNA in the context of natural resource management Topics covered include the role of SNA in stakeholder selection improving fisheries management and conservation the effect of social network ties on public satisfaction and agrarian communication networks Numerous case studies link SNA concepts to the theories underlying natural resource governance such as social learning adaptive co management and social movements theory Reflecting on the challenges and opportunities associated with this evolving field this is an ideal resource for students and researchers involved in many areas of natural resource management environmental biology sustainability science and sociology

*Basic Questions on Truth* P. Weingartner,2000-09-30 The task of the book is not to give a survey of the main theories on truth found in the literature There are several books available which do this The one of David for Deflationist and Disquotational Theories of Truth that of Chapuis for Revision Theories of

Truth that of Kirkham for Correspondence Theories and several others that of Rescher for Coherence Theories of Truth Moreover the book is not an analysis just of Tarski's theory like that of Moreno or the respective chapters in Kirkham though Tarski's theory plays an important role in the whole work presented The task of the book is to give a detailed answer to some basic questions on truth which have been perennial problems through the centuries and are still discussed today The answer is given in the light of our knowledge today and with the help of modern logic But the book explicitly aims at connecting recent problems with related ones in the whole history of philosophy The method to incorporate important philosophers of the tradition into the analysis is that of disputation i.e. of putting some of their main thesis into objections or counterobjections pro or contra a positive answer to the respective question After the pros and cons are given a detailed answer to the question is proposed and finally commentaries and corrections are given to the objections and counterobjections in the light of the proposed answer

Mathematics in Society and History Sal P. Restivo, 1992-11-30 This is the first book by a sociologist devoted exclusively to a general sociology of mathematics The author provides examples of different ways of thinking about mathematics sociologically The survey of mathematical traditions covers ancient China the Arabic Islamic world India and Europe Following the leads of classical social theorists such as Emile Durkheim Restivo develops the idea that mathematical concepts and ideas are collective representations and that it is mathematical communities that create mathematics not individual mathematicians The implications of the sociology of mathematics and especially of pure mathematics for a sociology of mind are also explored In general the author's objective is to explore conjecture suggest and stimulate in order to introduce the sociological perspective on mathematics and to broaden and deepen the still narrow shallow path that today carries the sociology of mathematics This book will interest specialists in the philosophy history and sociology of mathematics persons interested in mathematics education students of science and society and people interested in current developments in the social and cultural analysis of science and mathematics

**The Philosophy of Ecology** David R. Keller, Frank B. Golley, 2000 This is the first introductory anthology on the philosophy of ecology edited by an ecologist and a philosopher It illustrates the range of philosophical approaches available to ecologists and provides a basis for understanding the thinking on which many of today's environmental ideas are founded Collectively these seminal readings make a powerful statement on the value of ecological knowledge and thinking in alleviating the many problems of modern industrial civilization Issues covered include the challenges of defining scientific ecology tracing its genealogy and distinguishing the science from various forms of ecological like thinking the ontology of ecological entities and processes selected concepts of community stability diversity and niche the methodology of ecology rationalism and empiricism reductionism and holism the significance of evolutionary law for ecological science

**Foundations of Biophilosophy** Martin Mahner, Mario Bunge, 2013-03-14 Over the past three decades the philosophy of biology has emerged from the shadow of the philosophy of physics to become a respectable and thriving philosophical subdiscipline The authors

take a fresh look at the life sciences and the philosophy of biology from a strictly realist and emergentist naturalist perspective They outline a unified and science oriented philosophical framework that enables the clarification of many foundational and philosophical issues in biology This book will be of interest both to life scientists and philosophers

*Metaphysical Emergence* Jessica M. Wilson, 2021 *Metaphysical Emergence* provides a detailed analyses of two ways for phenomena to be grounded in and yet distinct from underlying physical reality and brings this to bear on a number of live debates in metaphysics including those concerning consciousness and free will

*Ecology and Justice—Citizenship in Biotic Communities* David R. Keller, 2019-03-30 This is the first book to outline a basic philosophy of ecology using the standard categories of academic philosophy metaphysics axiology epistemology aesthetics ethics and political philosophy The problems of global justice invariably involve ecological factors Yet the science of ecology is itself imbued with philosophical questions Therefore studies in ecological justice the sub discipline of global justice that relates to the interaction of human and natural systems should be preceded by the study of the philosophy of ecology This book enables the reader to access a philosophy of ecology and shows how this philosophy is inherently normative and provides tools for securing ecological justice The moral philosophy of ecology directly addresses the root cause of ecological and environmental injustice the violation of fundamental human rights caused by the inequitable distribution of the benefits economies and costs diseconomies of industrialism Philosophy of ecology thus has implications for human rights pollution poverty unequal access to resources sustainability consumerism land use biodiversity industrialization energy policy and other issues of social and global justice This book offers an historical and interdisciplinary exegesis The analysis is situated in the context of the Western intellectual tradition and includes great thinkers in the history of ecological thinking in the West from the natural sciences social sciences and humanities Keller asks the big questions and surveys answers with remarkable detail Here is an insightful analysis of contemporary classical and ancient thought alike in the ecological sciences the humanities and economics the roots and fruits of our concepts of nature and of being in the world Keller is unexcelled in bridging the is ought gap bridging nature and culture and in celebrating the richness of life its pattern process and creativity on our wonderland Earth

Holmes Rolston III University Distinguished Professor Colorado State University Author of *A New Environmental Ethics The Next Millennium for Life on Earth* 2012 Mentored by renowned ecologist Frank Golley and renowned philosopher Frederick Ferré David Keller is well prepared to provide a deep history and a sweeping synthesis of the idea of ecology including the metaphysical epistemological and ethical aspects of that idea as well as the scientific

J Baird Callicott University Distinguished Research Professor University of North Texas Author of *Thinking Like a Planet The Land Ethic and the Earth Ethic* 2013

*The Orders of Nature* Lawrence Cahoon, 2013-01-29 Winner of the 2015 John N Findlay Award in Metaphysics presented by the Metaphysical Society of America Reviving and modernizing the tradition of post Darwinian naturalism *The Orders of Nature* draws on philosophy and the natural sciences to present a naturalistic theory of

reality Conceiving of nature as systems processes and structures that exhibit diverse properties that can be hierarchically arranged Lawrence Cahoon sketches a systematic metaphysics based on the following orders of nature physical material biological mental and cultural Using recent work in the science of complexity hierarchical systems theory and nonfoundational approaches to metaphysics Cahoon analyzes these orders with explanations of the underlying science covering a range of topics that includes general relativity and quantum field theory chemistry and inorganic complexity biology and telonomic explanation or purpose the theory of mind and mental causation as an animal phenomenon and the human mind's unique cultural abilities The book concludes with an exploration of what answers such a theory of naturalism can provide to questions about values and God **Creating Consilience** Edward Slingerland, Mark Collard, 2012-01-19

Calls for a consilient or vertically integrated approach to the study of human mind and culture have for the most part been received by scholars in the humanities with either indifference or hostility One reason for this is that consilience has often been framed as bringing the study of humanistic issues into line with the study of non human phenomena rather than as something to which humanists and scientists contribute equally The other major reason that consilience has yet to catch on in the humanities is a dearth of compelling examples of the benefits of adopting a consilient approach Creating Consilience is the product of a workshop that brought together internationally renowned scholars from a variety of fields to address both of these issues It includes representative pieces from workshop speakers and participants that examine how adopting such a consilient stance informed by cognitive science and grounded in evolutionary theory would concretely impact specific topics in the humanities examining each topic in a manner that not only cuts across the humanities natural science divide but also across individual humanistic disciplines By taking seriously the fact that science humanities integration is a two way exchange this volume takes a new approach to bridging the cultures of science and the humanities The editors and contributors formulate how to develop a new shared framework of consilience beyond mere interdisciplinarity in a way that both sides can accept Hegel, Institutions and Economics Carsten Herrmann-Pillath, Ivan Boldyrev, 2014-01-10

Hegel's philosophy has witnessed periods of revival and oblivion at times considered to be an unrivalled and all embracing system of thought but often renounced with no less ardour This book renews the dialogue with Hegel by looking at his legacy as a source of insight and judgement that helps us rethink contemporary economics This book focuses on a concept of institution which is equally important for Hegel's political philosophy and for economic theory to date The key contributions of this Hegelian perspective on economics lead us to the synthesis of traditional approaches and new ideas gained in economic experiments and advanced by neuroeconomists sociologists and cognitive scientists The proper account of contemporary civil society involves comprehending it as a historically evolving totality of individual minds ideas and intersubjective structures that are mutually dependent tied by recognitive relations and assert themselves as a whole in the ongoing performative movement of objective spirit The ethics of recognition is paired with the ethics of associations that supports moral principles

and gives them true concrete universality This unusual constellation of seemingly remote fields suggests that Hegel read in a pragmatist mode anticipated the new theories and philosophies of extended mind social cognition and performativity By providing a new conceptual apparatus and reformulating the theory of institutions in the light of this new synthesis this book claims to give new meaning both to Hegel as interpreted from today and to the social sciences Seen from this perspective such phenomena as cooperation in games personal identity or justice in the version of Amartya Sen s realization focused comparisons are reinscribed into the logic of institutional theory This Hegel clearly goes beyond the limits of philosophical discussion and becomes a decisive reference for economists sociologists political scientists and other scholars who study the foundations and consequences of human sociality and try to explore and design the institutions necessary for a worthy common life

**Mind and Emergence** Philip Clayton,2004-10-29 Strong claims have been made for emergence as a new paradigm for understanding science consciousness and religion Tracing the past history and current definitions of the concept Clayton assesses the case for emergent phenomena in the natural world and their significance for philosophy and theology Complex emergent phenomena require irreducible levels of explanation in physics chemistry and biology This pattern of emergence suggests a new approach to the problem of consciousness which is neither reducible to brain states nor proof of a mental substance or soul Although emergence does not entail classical theism it is compatible with a variety of religious positions Clayton concludes with a defence of emergentist panentheism and a Christian constructive theology consistent with the new sciences of emergence

**Matter and Mind** Mario Bunge,2010-09-14 This book discusses two of the oldest and hardest problems in both science and philosophy What is matter and What is mind A reason for tackling both problems in a single book is that two of the most influential views in modern philosophy are that the universe is mental idealism and that the everything real is material materialism Most of the thinkers who espouse a materialist view of mind have obsolete ideas about matter whereas those who claim that science supports idealism have not explained how the universe could have existed before humans emerged Besides both groups tend to ignore the other levels of existence chemical biological social and technological If such levels and the concomitant emergence processes are ignored the physicalism spiritualism dilemma remains unsolved whereas if they are included the alleged mysteries are shown to be problems that science is treating successfully

**The Routledge Handbook of Tourism and the Environment** Andrew Holden,David A. Fennell,2013 This handbook explores and critically evaluates the debates and controversies inherent to tourism s relationship with nature especially pertinent at a time of major re evaluation of our relationship with the environment as a consequence of the environmental problems we now face

**Complexity and Emergence** Sergio Albeverio,Elisa Mastrogiacomio,Emanuela Rosazza Gianin,Stefania Ugolini,2022-05-07 This book includes contributions about mathematics physics philosophy of science economics and finance and resulted from the Summer School Complexity and Emergence Ideas Methods with a Special Attention to Economics and Finance held in Lake Como School of Advanced Studies



on 22 27 July 2018 The aim of the book is to provide useful instruments from the theory of complex systems both on the theoretical level and the methodological ones profiting from knowledge and insights from leading experts of different communities It moves from the volume editors conviction that to achieve progress in understanding socio economical as well as ecological problems of our complex world such preparation is needed together with a critical reconsideration of our basic scientific and economical approach The potential readers are primarily master and doctorate students of mathematics information sciences theoretical physics and economics as well as research workers in those areas who want to enlarge their spectrum of knowledge towards the area of complexity and emergence Since ideas and methods of the theory of complex systems also apply to other areas from engineering and architecture to biology and medicine e g students and research workers from those areas will also profit from this book

*The Routledge Handbook of Emergence* Sophie Gibb, Robin Findlay Hendry, Tom Lancaster, 2019-03-13 Emergence is often described as the idea that the whole is greater than the sum of the parts interactions among the components of a system lead to distinctive novel properties It has been invoked to describe the flocking of birds the phases of matter and human consciousness along with many other phenomena Since the nineteenth century the notion of emergence has been widely applied in philosophy particularly in contemporary philosophy of mind philosophy of science and metaphysics It has more recently become central to scientists understanding of phenomena across physics chemistry complexity and systems theory biology and the social sciences The Routledge Handbook of Emergence is an outstanding reference source and exploration of the concept of emergence and is the first collection of its kind Thirty two chapters by an international team of contributors are organised into four parts Foundations of emergence Emergence and mind Emergence and physics Emergence and the special sciences Within these sections important topics and problems in emergence are explained including the British Emergentists weak vs strong emergence emergence and downward causation dependence complexity and mechanisms mental causation consciousness and dualism quantum mechanics soft matter and chemistry and evolution cognitive science and social sciences Essential reading for students and researchers in philosophy of mind philosophy of science and metaphysics The Routledge Handbook of Emergence will also be of interest to those studying foundational issues in biology chemistry physics and psychology

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