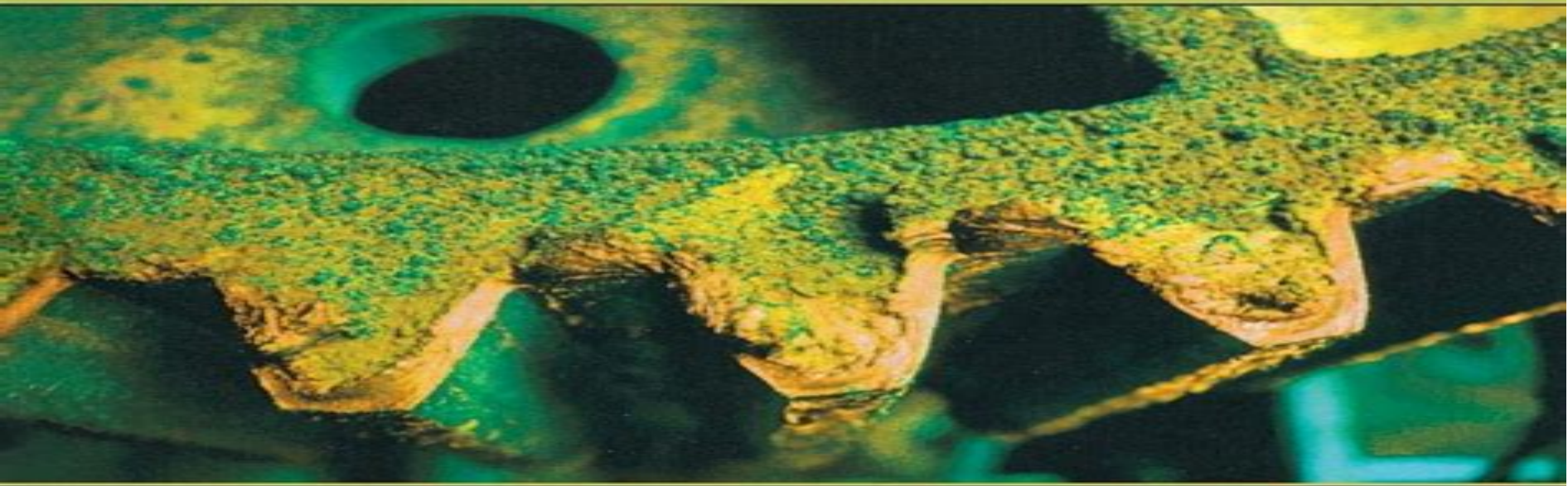


Beyond Mechanism

PUTTING LIFE BACK INTO BIOLOGY



EDITED BY **BRIAN G. HENNING** AND **ADAM C. SCARFE**
WITH A FOREWORD BY **STUART A. KAUFFMAN**

Beyond Mechanism Putting Life Back Into Biology

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Beyond Mechanism Putting Life Back Into Biology:

Beyond Mechanism Brian G. Henning, Adam Scarfe, 2013-02-01 It has been said that new discoveries and developments in the human social and natural sciences hang in the air Bowler 1983 2008 prior to their consummation While neo Darwinist biology has been powerfully served by its mechanistic metaphysic and a reductionist methodology in which living organisms are considered machines many of the chapters in this volume place this paradigm into question Pairing scientists and philosophers together this volume explores what might be termed the New Frontiers of biology namely contemporary areas of research that appear to call an updating a supplementation or a relaxation of some of the main tenets of the Modern Synthesis Such areas of investigation include Emergence Theory Systems Biology Biosemiotics Homeostasis Symbiogenesis Niche Construction the Theory of Organic Selection also known as the Baldwin Effect Self Organization and Teleodynamics as well as Epigenetics Most of the chapters in this book offer critical reflections on the neo Darwinist outlook and work to promote a novel synthesis that is open to a greater degree of inclusivity as well as to a more holistic orientation in the biological sciences

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Ontogenesis Beyond Complexity Cary Wolfe, Adam Nocek, 2021-12-26 This book is based upon the collaborative efforts of the Ontogenetics Process Group OPG an interdisciplinary multi institutional multi national research group that began meeting in 2017 to explore new and innovative ways of thinking the problem of complexity in living physical and social systems outside the algorithmic models that have dominated paradigms of complexity to date For all the descriptive and predictive power that the complexity sciences offer the ability to compute feedback systems recursive networks emergent dynamics etc they also presume that the living world in all of its modalities biological semiotic economic affective social can be reduced to finite schema of description that delimits in advance all possible outcomes What is proposed in this volume are conceptual architectures for the living that are not only irreducible to physico mathematical frames of reference but that are also as vital as the phenomena they wish to express In short life is more complex than

complexity What emerges from this engagement is not the ascendance of a new transcendental principle or what amounts to the same thing a foundational bedrock derived from the physico mathematical sciences but just the opposite a domain in which the ontological and the epistemological domains enter a zone of strange and unavoidable entanglement The chapters in this book were originally published as a special issue of *Angelaki* *Humanity's Rise to Superdominance, the Global Ecological Crisis, and the Way Forward for Education* Adam C. Scarfe, 2022-12-01 This book pinpoints the evolutionary connection between the global ecological crisis and transgenerational learning and education As Julian Huxley 1887 1975 described the cumulative passing down of knowledge skills and ideas by one generation to the next over eons of time which has been afforded by the advent of complex languages in the evolutionary past is chiefly responsible for humanity's planetary superdominance However given that the drive of the human species to increase its control over the natural world has today run up against ecological limits there is an evolutionary existential choice to be made in relation to the ultimate purposes of formal education Should humanity double down on the anthropocentric humanist project of superdominance including the goals of unlimited economic growth development and scientific and technological progress Alternatively should a biocentric anti humanist and or postmodernist deconstruction of formal education take place Or should a holistic organicist orientation emphasizing biological wisdom help to shape its future As this book shows the answers to these philosophical questions on the parts of educators prospective teachers and learners will going forward play a key role in deciding the evolutionary trajectories of all life forms on the planet

Contemporary Natural Philosophy and Philosophies - Part 1 Gordana Dodig-Crnkovic, Marcin J. Schroeder, 2019-06-11 Modern information communication technology eradicates barriers of geographic distances making the world globally interdependent but this spatial globalization has not eliminated cultural fragmentation The Two Cultures of C P Snow that of science technology and that of humanities are drifting apart even faster than before and they themselves crumble into increasingly specialized domains Disintegrated knowledge has become subservient to the competition in technological and economic race leading in the direction chosen not by the reason intellect and shared value based judgement but rather by the whims of autocratic leaders or fashion controlled by marketers for the purposes of political or economic dominance If we want to restore the authority of our best available knowledge and democratic values in guiding humanity first we have to reintegrate scattered domains of human knowledge and values and offer an evolving and diverse vision of common reality unified by sound methodology This collection of articles responds to the call from the journal *Philosophies* to build a new networked world of knowledge with domain specialists from different disciplines interacting and connecting with other knowledge and values producing and knowledge and values consuming communities in an inclusive extended contemporary natural philosophic manner In this process of synthesis scientific and philosophical investigations enrich each other with sciences informing philosophies about the best current knowledge of the world both natural and human made while philosophies scrutinize the ontological epistemological and methodological

foundations of sciences providing scientists with questions and conceptual analyses This is all directed at extending and deepening our existing comprehension of the world including ourselves both as humans and as societies and humankind

Value, Beauty, and Nature Brian G. Henning, 2023-12-01 Much of early environmental ethics was born out of the belief that the ecological crisis can only truly be solved by overcoming a pernicious worldview that limits all intrinsic value to human beings Returning to this originating impulse Value Beauty and Nature contends that to make progress within environmental ethics philosophers must explicitly engage in environmental metaphysics Grounded in an organicist process worldview Brian G Henning shows that it is possible to make progress in key debates within environmental philosophy including those concerning the nature of intrinsic value anthropocentrism hierarchy the moral significance of beauty the nature of individuality teleology and the naturalistic fallacy and worldview reconstruction A Whiteheadian fallibilistic naturalistic event ontology allows for the recovery of systematic speculative metaphysical thought without a revanchist movement toward a necessitarian philosophia perennis Thus in contrast to the claims of environmental pragmatists Value Beauty and Nature demonstrates that environmental ethics would greatly benefit from an adequate metaphysical foundation and of the candidate metaphysical systems Alfred North Whitehead's philosophy of organism is the most adequate **Play**

Among Books Miro Roman, Alice_ch3n81, 2021-12-06 How does coding change the way we think about architecture This question opens up an important research perspective In this book Miro Roman and his AI Alice_ch3n81 develop a playful scenario in which they propose coding as the new literacy of information They convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an infinite flow of real books Focusing on the intersection of information technology and architectural formulation the authors create an evolving intellectual reflection on digital architecture and computer science **Nature Alive** Adam Scarfe, 2018-04-18 This volume

pays homage to Alfred North Whitehead's 1861-1947 profound lecture and essay entitled Nature Alive which was one of his most mature expressions of his process relational metaphysics a holistic conceptual framework that renders vivid the dynamic character of the natural world and the intrinsic purposiveness selective agency and creativity of living organisms Inspired by but not beholden to Whitehead's process metaphysical lens the contributors to this volume bring a multiplicity of philosophical orientations to the table in challenging the mechanistic and reductionistic neo-Darwinian paradigm that is still dominant today in the life sciences Mechanistic neo-Darwinism views nature and living organisms as machines namely as networks of externally related and linear causal switches dials levers pulleys and gears that are at the ready for technological and biotechnological manipulation Seeking a conceptual framework and a language that are more adequate to the study of the natural world and of living creatures than the mechanistic orientation the contributors to this volume explore several of the New Frontiers of Biology which are areas of biology whose findings to some extent go beyond the explanatory confines of the Modern Synthesis of natural selection and genetics Most notably emergence theory the theory of organic selection

epigenetics homeostasis chronobiology and autopoiesis research can provide us with key insights that can assist us in explaining how living agents emerged including the evolutionary origins of mentality consciousness and mind Moreover attention to the New Frontiers of Biology can serve to re enchant our understanding of the natural world and to prevent ecological devastation through a restoration to objectivity of notions such as intrinsic purposiveness selective agency creativity and intrinsic value

Environmental Biodynamics Manish Arora,Paul Curtin,Austen Curtin,Christine Austin,Alessandro Giuliani,2021 Environmental Biodynamics offers a daring new inquiry into our environment and its impact on human health by redefining how we conceptualize interactions between complex systems

Education from a Whiteheadian Point of View Vesselin Petrov,2019-03-28 The basic aims of contemporary thinking in education are to cultivate a proper comprehension of the meaning and purpose of education and the role of the teacher and to develop adequate theoretical and methodological frameworks that combine some of the positive sides of the leading theories while avoiding their disadvantages Toward these ends one excellent candidate for consideration is Alfred North Whitehead s 1861 1947 process relational philosophy of education as set forth in The Aims of Education 1929 and elsewhere The contributors to this volume analyze Whitehead s philosophy of education in a detailed and critical fashion including inquiring into the development of cycle based approaches to education like Whitehead s in intellectual history as well as its potential objective bases They also demonstrate how this relates to and can be integrated with other leading theories of education and contemporary pedagogical thinking and identify avenues for its positive practical application in schooling across the globe as well as in scientific research The book further critically evaluates current educational practices and the organization of educational institutions in this light and the effectiveness of teaching strategies that are founded upon some of its principles while also exploring the ramifications of its selection and application in education for society in general as well as for our common civilizational aspirations including humanity s addressing of global problems such as the ecological crisis In addition the volume also serves to lay some of the groundwork for its potential further development

Readings in Numanities Oana Andreica,Alin Olteanu,2017-11-30 This unique book gathers articles from the numanistic perspective of multidisciplinary and innovation connected by three main theoretical interests or overarching themes music semiotics and translation Offering an eclectic collection of innovative papers that address such topics as culture musicology art consumption meaning codes and national identities to name a few it has a broad appeal across the humanities and social sciences The contributing authors draw on various schools and methodologies including psychology psychoanalysis social semiotics semiotic modelling deconstruction and cultural analysis By approaching established themes in new and challenging ways this highly engaging book has the potential to advance the state of the art in various topics It appeals to all scholars investigating cultural identity linguistics and translation music consumption performance semiotic theories and various intersections of these and related topics

A Franciscan Theological-Metaphysical Foundation of Emergence Alessandro

Mantini,2024-11-23 This book proposes a broad synthesis of the state of the art regarding the debate on the phenomenon of Emergence Discussing from a theoretical and a theological perspective it aims to propose a new interpretation according to the theological and metaphysical framework offered by St Bonaventure and the Franciscan school Identifying the main concepts the salient and questions that characterize the phenomenon of Emergence the book employs a complex multilevel and wide ranging analysis between the wisdom of Bonaventurian theology metaphysics and modern scientific and metaphysical knowledge This book is a must read for scholars and academics interested in new sapiential depths to extract and make the new and the ancient interact *Ecologies of Faith in a Digital Age* Stephen D. Lowe,Mary E. Lowe,2018-06-19 Many Christian institutions have embraced new technologies especially online education But is it possible for us to grow spiritually through our digital communities Steve Lowe and Mary Lowe longtime proponents of online education trace the motif of spiritual growth through Scripture and consider how students and professors alike might foster digital ecologies in which spiritual transformation can take place *Dynamic Being* Aljoscha Berve,Adam C. Scarfe,2015-09-10 One of the most important characteristics of present day ontological research is the growing interest in and emphasis on the dynamic aspects of being and the process relational character of being itself However many important questions still await detailed answers For example what is the meaning of the concepts of dynamics dynamicity and dynamic ontology among others Are they identical to or similar with respectively processes process ontology process relational ontology Is process ontology a type of dynamic ontology Dynamic Being Essays in Process Relational Ontology examines these and many other questions and suggests fruitful approaches in dealing with such questions The book carries out two main tasks first investigating developments in the theory of dynamic and process relational ontologies and second exploring developments in the application of these ontologies The second task is multidisciplinary in character The authors of the chapters in this volume are specialists not only in philosophy but also in other fields of science including psychology biology mathematics logic and computer science their work providing a seed bed of novel possibilities for cooperative interdisciplinary research

Semiotics and its Masters. Volume 2 Alin Olteanu,Paul Cobley,2023-01-30 Semiotics has ever changing vistas in consonance with changes in the ever increasing complexity of life on Planet Earth This book presents cutting edge work in semiotics projecting developments in the future of the field Authored by leading semioticians Semiotics and its Masters Volume 2 contains essays on learning transdisciplinarity science scaffolding narrative selfhood ecosemiotics agency cybersemiotics pornography nostalgia language and money The volume presents a panorama of semiotics as it will develop in the third decade of the 21st century This book will furnish the reader with an overview of the challenges that face explorers in the contemporary world of signs The Bloomsbury Handbook of World Theory Jeffrey R. Di Leo,Christian Moraru,2021-11-18 Disciplines from literary studies to environmentalism have recently undergone a spectacular reorientation that has refocused entire fields methodologies and vocabularies on the world and its sister terms such as globe

planet and earth The Bloomsbury Handbook of World Theory examines what world means and what it accomplishes in different zones of academic study The contributors raise questions such as What happens when world is appended to a particular form of humanistic or scientific inquiry How exactly does worlding bear on the theoretical operating system and the history of that field What is the theory or theoretical model that allows world to function in a meaningful way in coordination with that knowledge domain With contributions from 38 leading theorists from a vast range of fields including queer studies religion and pop culture this is the first large reference work to consider the profound effect both within and outside the academy of the worlding of discourse in the 21st century *Semiotic Agency* Alexei Sharov, Morten

Tønnessen, 2022-02-08 This book invites readers to embark on a journey into the world of agency encompassing humans other organisms cells intracellular molecular agents colonies populations ecological systems and artificial autonomous systems We combine mechanistic and non mechanistic approaches in the analysis of the function and evolution of organisms their subagents and multi organism systems and in this way offer a theoretical platform for integrating biosemiotics with both natural science and the humanities social sciences Agents are autonomous systems that incorporate knowledge on how to make sense of their environment and use it to achieve their goals The functions of all agents are supported by mechanisms at the lowest level however the explanatory power of mechanistic analysis is not sufficient for complex agents Non mechanistic methods rely on the goal directedness of agents whose dynamics follow self stabilized dynamic attractors The properties of attractors depend on stable or slowly changing factors and such dependencies can be interpreted as sign relations if they are adaptive in nature Agents can replace or redirect mechanisms on demand in order to preserve their functions for performing higher level semiotic functions mechanisms are thus only means We assume that mechanism and semiosis are not mutually exclusive and that simple agents can interpret signs mechanistically This assumption allows us to extend semiotic analysis to all agents including ribosomes in cells computers and robots This book challenges established traditions in natural science and the humanities social sciences semiotics no longer appears as restricted to humans and rational thinking and biology is no longer limited to rely exclusively on mechanistic reasoning **Translation Studies**

beyond the Postcolony Ilse Feinauer, Kobus Marais, 2017-01-06 This edited volume explores the role of postcolonial translation studies in addressing issues of the postcolony It investigates the retention of the notion of postcolonial translation studies and whether one could reconsider or adapt the assumptions and methodologies of postcolonial translation studies to a new understanding of the postcolony to question the impact of postcolonial translation studies in Africa to address pertinent issues The book also places the postcolony in historical perspective and takes a critical look at the failures of postcolonial approaches to translation studies The book brings together 12 chapters which are divided into three sections namely Africa the Global South and the Global North As such the volume is able to consider the postcolony and even conceptualisations beyond the postcolony in a variety of settings worldwide Bernard Stiegler and the Philosophy of

Education II Joff P. N. Bradley, 2023-08-22 This is the second volume of research into the philosophy of Bernard Stiegler and its interconnections with the philosophy of education Building on the first edited collection Stiegler's philosophy is introduced to scholars in the field of the philosophy of education in the hope that researchers dig deep into his philosophy and apply it to their own educational context in order to produce new forms of knowledge that is negentropic forms of knowledge which may counter the endemic crises we see in educational institutions in towns cities and villages across the planet This second volume throws down the gauntlet to others to find new ways to contest toxic forms of digital life inside and outside education and to challenge entrenched and conservative ways of teaching and learning in the 21st century The writers in this volume from Australasia Europe and across South Southeast and East Asia do a remarkable job of translating Bernard Stiegler's sometimes complicated language into ways which are interpretable applicable and communicable to those who witness day in day out in their schools universities and institutions the struggle to capture the hearts and minds of young people This book was originally published as a special issue of the journal Educational Philosophy and Theory How Kant Matters For Biology Andrew Jones, 2023-03-15 Kant denied biology the status of proper science yet his account of the organism has received much attention from both philosophical and historical perspectives This book argues that Kant's influence on biology in the British Isles is in part due to misunderstandings of his philosophy Highlighting these misunderstandings exposes how Kant influenced various aspects of scientific method despite the underlying incompatibility between transcendental idealism and scientific naturalism This book raises criticism against scientific naturalism as it demonstrates how some concepts that are central to biology have been historically justified in ways that are incompatible with naturalism Approaching current issues in philosophy of biology from a Kantian orientation offers new perspectives to debates including our knowledge of laws of nature the unity of science and our understanding of organisms Moreover new avenues are forged to demonstrate the benefits of adopting Kant inspired approaches to issues in contemporary philosophy of science

The Top Books of the Year Beyond Mechanism Putting Life Back Into Biology The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Beyond Mechanism Putting Life Back Into Biology : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Beyond Mechanism Putting Life Back Into Biology : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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