

REDUCTION  
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IN SCIENCE AND  
PHILOSOPHY  
CARL GILLETT

# Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science

**Otávio Bueno, Ruey-Lin Chen, Melinda  
Bonnie Fagan**



## **Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science:**

**Emergence in Science and Philosophy** Antonella Corradini, Timothy O'Connor, 2010-06-18 The concept of emergence has seen a significant resurgence in philosophy and the sciences yet debates regarding emergentist and reductionist visions of the natural world continue to be hampered by imprecision or ambiguity Emergent phenomena are said to arise out of and be sustained by more basic phenomena while at the same time exerting a top down control upon those very sustaining processes To some critics this has the air of magic as it seems to suggest a kind of circular causality Other critics deem the concept of emergence to be objectionably anti naturalistic Objections such as these have led many thinkers to construe emergent phenomena instead as coarse grained patterns in the world that while calling for distinctive concepts do not disrupt the ordinary dynamics of the finer grained more fundamental levels Yet reconciling emergence with a presumed pervasive causal continuity at the fundamental level can seem to deflate emergence of its initially profound significance This basic problematic is mirrored by similar controversy over how best to characterize the opposite systematizing impulse most commonly given an equally evocative but vague term reductionism The original essays in this volume help to clarify the alternatives inadequacies in some older formulations and arguments are exposed and new lines of argument on behalf the two visions are advanced

**Power and Influence** Richard Corry, 2019 Corry examines the metaphysical presuppositions in the reductive method of explanation He argues that it makes assumptions about the nature of causal power and causal influence he outlines implications for traditional philosophical problems and he presents an integrated metaphysical worldview grounded in the nature of power and influence

**Life On Earth-like Planets: Gaia And Her Sisters** Gerald E Marsh, 2024-09-20 From its ancient Greek roots to Lovelock's groundbreaking 1979 book the concept of Gaia has evolved to depict Earth as a single intricate organism sustaining life through the interplay of its organic and inorganic elements From the Hadean epoch where life's emergence radically transformed our planet to the present Earth stands as our sole model for understanding life's potential on other Earth like worlds While the lifeforms that evolve on Earth like planets would not necessarily be identical to those on Earth they must satisfy the same constraints These constraints are the central subject of this book Exploring Earth's early conditions during the Hadean era when oceans dominated and oxygen was scarce the book illuminates the daunting challenges life faced Yet life found its foothold driven by thermodynamic favorability amidst high tides and shorter days laying the groundwork for its inevitable emergence Delving into the fundamental principles of matter and quantum mechanics the book further highlights life's origin as a product of complex molecular interactions overcoming energy constraints With insights into the statistical approach to life's origins and the fallacies in estimating life's probability on other planets the book redefines life as a natural process governed by universal laws As an underlying theme of this book life's evolution towards complexity is portrayed as a harmonious extension of non living processes challenging the limited conventional view of thermodynamics Readers will come to appreciate that Earth is a testament to life's resilience and the

intricate tapestry woven by biochemical forces across the cosmos      *The Self and Self-Knowledge* Annalisa Coliva,2012-04-19 Investigates philosophical issues to do with the self and self knowledge It focuses on two main problems how to account for I thoughts and the consequences that doing so would have for our notion of the self and how to explain subjects ability to know the kind of psychological states they enjoy      *Mechanisms in Science* Stavros Ioannidis,Stathis Psillos,2022-06-23 Questions central tenets of the current philosophical consensus about mechanisms and develops the novel alternative of Methodological Mechanism      **From Electrons to Elephants and Elections** Shyam Wuppuluri,Ian Stewart,2022-04-08 This highly interdisciplinary book covering more than six fields from philosophy and sciences all the way up to the humanities and with contributions from eminent authors addresses the interplay between content and context reductionism and holism and their meeting point the notion of emergence Much of today s science is reductionist bottom up in other words behaviour on one level is explained by reducing it to components on a lower level Chemistry is reduced to atoms ecosystems are explained in terms of DNA and proteins etc This approach fails quickly since we can t cannot extrapolate to the properties of atoms solely from Schr dinger s equation nor figure out protein folding from an amino acid sequence or obtain the phenotype of an organism from its genotype An alternative approach to this is holism top down Consider an ecosystem or an organism as a whole seek patterns on the same scale Model a galaxy not as 400 billion point masses stars but as an object in its own right with its own properties spiral elliptic Or a hurricane as a structured form of moist air and water vapour Reductionism is largely about content whereas holistic models are more attuned to context Reductionism content and holism context are not opposing philosophies in fact they work best in tandem Join us on a journey to understand the multifaceted dialectic concerning this duo and how they shape the foundations of sciences and humanities our thoughts and the very nature of reality itself      *The Palgrave Encyclopedia of the Possible* Vlad Petre Glăveanu,2023-01-25 The Palgrave Encyclopedia of the Possible represents a comprehensive resource for researchers and practitioners interested in an emerging multidisciplinary area within psychology and the social sciences the study of how we engage with and cultivate the possible within self society and culture Far from being opposed either to the actual or the real the possible engages with concrete facts and experiences with the result of transforming them This encyclopedia examines the notion of the possible and the concepts associated with it from standpoints within psychology philosophy sociology neuroscience and logic as well as multidisciplinary fields of research including anticipation studies future studies complexity theory and creativity research Presenting multiple perspectives on the possible the authors consider the distinct social cultural and psychological processes e g imagination counterfactual thinking wonder play inspiration and many others that define our engagement with new possibilities in domains as diverse as the arts design and business      **The Twenty-First Century Mechanistic Theory of Human Cognition** Diego Azevedo Leite,2020-11-30 This book presents a theoretical critical appraisal of the Mechanistic Theory of Human Cognition MTHC which is one of the most popular major theories in

the contemporary field of cognitive science It analyses and evaluates whether MTHC provides a unifying account of human cognition and its explanation The book presents a systematic investigation of the internal and external consistency of the theory as well as a systematic comparison with other contemporary major theories in the field In this sense it provides a fresh look at more recent major theoretical debates in this area of scientific research and a rigorous analysis of one of its most central major theories Rigorous theoretical work is integrated with objective consideration of relevant empirical evidence making the discussions robust and clear As a result the book shows that MTHC provides a significant theoretical contribution for the field of cognitive science The content is useful for those interested in theoretical and empirical issues concerning major theories in the contemporary field of cognitive science      *Metachemistry* Klaus Ruthenberg, 2024-08-19 Ruthenberg highlights the unique aspects of chemistry specifically its metachemical fundamentals which have been largely overlooked in current philosophies of science Conventional metaphysics derived from or focused on theoretical physics is inadequate when applied to chemistry The author examines and integrates historical and philosophical perspectives on important aspects of chemistry including affinity compositionism emergence synthesis analysis atomism non atomism chemical species chemical bond chemical concepts plurality temporality potentiality reactivity and underdetermination To accomplish this he draws on the works of notable chemists such as Franti ek Wald Wilhelm Ostwald Friedrich Paneth and Hans Primas who have contributed to the philosophical understanding of chemistry The central conclusion of this study aligns with Immanuel Kant s viewpoint Chemistry is a systematic art      Levels of Explanation Katie Robertson, Alastair Wilson, 2024-11-30 This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations The different sciences furnish us with a wide variety of explanations some work at macroscopic scales some work at microscopic scales and some operate across different levels How do these different explanatory levels relate to one another and what is an explanatory level in the first place Over the last 50 years more and more philosophers both reductionists and anti reductionists no longer subscribe to the idea that the best explanation resides at the fundamental physical level New challenges arise from the success of scientific explanations employing multi level models which mix levels of explanation from distinctive differences between levels structures in biology cognitive science and social science from the apparently radical reimagining of the explanatory role of spacetime in our current best theories of fundamental physics and from the enduring mystery of how higher level explanations are possible in the first place These questions naturally connect to classic philosophical ways of thinking about the relationships between levels reduction emergence and fundamentality This volume presents a snapshot of cutting edge research on explanatory levels from their conceptual foundations to the details of how they are used in scientific practice      **The Foundation of Reality** David Glick, George Darby, Anna Marmodoro, 2020-04-29 Are space and time fundamental features of our world or might they emerge from something else The Foundation of Reality

brings together metaphysicians and philosophers of physics working on space time and fundamentality to address this timely question Recent developments in the interpretation of quantum mechanics and the understanding of certain approaches to quantum gravity have led philosophers of physics to propose that space and time might be emergent rather than fundamental But such discussions are often conducted without engagement with those working on fundamentality and related issues in contemporary metaphysics This book aims to correct this oversight The diverse contributions to this volume address topics including the nature of fundamentality the relation of space and time to quantum entanglement and space and time in theories of quantum gravity Only through consideration of a range of different approaches to the topic can we hope to get clear on the status of space and time in our contemporary understanding of physical reality **Individuation, Process,**

**and Scientific Practices** Otávio Bueno,Ruey-Lin Chen,Melinda Bonnie Fagan,2018-10-19 What things count as individuals and how do we individuate them It is a classic philosophical question often tackled from the perspective of analytic metaphysics This volume proposes that there is another channel by which to approach individuation from that of scientific practices From this perspective the question then becomes How do scientists individuate things and therefore count them as individuals This volume collects the work of philosophers of science to engage with this central philosophical conundrum from a new angle highlighting the crucial topic of experimental individuation and building upon recent pioneering work in the philosophy of science An introductory chapter foregrounds the problem of individuation arguing it should be considered prior to the topic of individuality The following chapters address individuation and individuality from a variety of perspectives with prominent themes being the importance of experimentation individuation as a process and pluralism in individuation s criteria Contributions examine individuation in a wide range of sciences including stem cell biology particle physics and community ecology Other chapters examine the metaphysics of individuation its bearing on realism antirealism debates and interrogate epistemic aspects of individuation in scientific practice In exploring individuation from the philosophy of biology physics and other scientific subjects this volume ultimately argues for the possibility of several criteria of individuation upending the tenets of traditional metaphysics It provides insights for philosophers of science but also for scientists

interested in the conceptual foundations of their work **Kuhn's Intellectual Path** K. Brad Wray,2021-09-30 Examines the influences on and impact of Thomas Kuhn s The Structure of Scientific Revolutions **Dispositions and Causal Powers**

Mr Bruno Gnassounou,Mr Max Kistler,2012-10-01 Dispositions are everywhere We say that a wall is hard that water quenches thirst and is transparent that dogs can swim and oak trees can let their leaves fall and that acid has the power to corrode metals All these statements express attributions of dispositions be they physical physiological or psychological yet there is much philosophical debate about how far if at all dispositional predicates can have complete meaning or figure in causal explanations This collection of essays by leading international researchers examine the case for realism with respect to dispositions and causal powers in both metaphysics and science Among the issues debated in this book is whether

dispositions can be analyzed in terms of conditionals whether all dispositions have a so called categorical basis and if they do what is the relation between the disposition and its basis      Getting to Know the World Scientifically Paul Needham,2020-03-20 This undergraduate textbook introduces some fundamental issues in philosophy of science for students of philosophy and science students The book is divided into two parts Part 1 deals with knowledge and values Chap 1 presents the classical conception of knowledge as initiated by the ancient Greeks and elaborated during the development of science introducing the central concepts of truth belief and justification Aspects of the quest for objectivity are taken up in the following two chapters Moral issues are broached in Chap 4 which discusses some aspects of the use and abuse of science taking up the responsibilities of scientists in properly conducting their business and decision makers in their concerns with the import of science for society Part 2 contrasts the view of scientific progress as the rejecting of old hypotheses and theories and replacing them with new ones represented by Karl Popper with the conception of progress as accumulating knowledge saving as much as possible from older theories represented by Pierre Duhem A concluding chapter defends the natural attitude of taking the theories of modern science to be literally true i e realism in the face of arguments drawn partly from the history of scientific progress in criticism of this stance      **Overcoming Reductionism and Crafting a New Synthesis** Piotr Roszak,Saša Horvat,2024-06-26 This book explores and sheds light on the contemporary discourse between science and religion Employing the methodological approach of modern science Overcoming Reductionism aims to explain natural phenomena not in isolation from philosophical or theological interpretations The book then focuses on the concept of pain Although pain is a phenomenon familiar to all humans defining it exclusively in terms of nociception proves challenging This book therefore delves into the intricate nature of the phenomenon critically acknowledging the way pain profoundly influences the construction of one s existential meaning particularly concerning matters of faith      Untying the Gordian Knot Timothy E. Eastman,2020-12-10 In Untying the Gordian Knot Process Reality and Context Timothy E Eastman proposes a new creative synthesis the Logoi framework which is radically inclusive and incorporates both actuality and potentiality to show how the fundamental notions of process logic and relations woven with triads of input output context and quantum logical distinctions can resolve a baker s dozen of age old philosophic problems Further Eastman leverages a century of advances in quantum physics and the Relational Realism interpretation pioneered by Michael Epperson and Elias Zafiris and augmented by the independent research of Ruth Kastner and Hans Primas to resolve long standing issues in understanding quantum physics Adding to this Eastman makes use of advances in information and complex systems semiotics and process philosophy to show how multiple levels of context combined with relations including potential relations both local and local global can provide a grounding for causation emergence and physical law Finally the Logoi framework goes beyond standard ways of knowing that of context independence science and context focus arts humanities to demonstrate the inevitable role of ultimate context meaning spiritual dimension as part of a transformative ecological vision

which is urgently needed in these times of human and environmental crises      Philosophical Perspectives in Quantum Chemistry Olimpia Lombardi, Juan Camilo Martínez González, Sebastian Fortin, 2022-05-16 This book explores the philosophy and the foundations of quantum chemistry It features chapters written by experts in the field The contributions analyze quantum chemistry as a discipline in particular its relation with both chemistry and physics from the viewpoint of realism and reduction Coverage includes such topics as quantum chemistry as an in between discipline molecular structure and quantum mechanics quantum chemical models and atoms and molecules in quantum chemistry The interest of this book is twofold First the contributions aim to update and refresh the discussions regarding the foundations of quantum chemistry Second they seek to develop new philosophical perspectives that this discipline can suggest to philosophers of science From its origins quantum chemistry filled a problematic position in the disciplinary space On the one hand it is a branch of theoretical chemistry On the other hand it appeals essentially to theoretical tools coming from physics This peculiar position triggered conceptual questions about its own identity Inside this book readers will find updated discussions on the foundations and the philosophy of this complex discipline      **Mario Bunge: A Centenary Festschrift** Michael R. Matthews, 2019-07-17 This volume has 41 chapters written to honor the 100th birthday of Mario Bunge It celebrates the work of this influential Argentine Canadian physicist and philosopher Contributions show the value of Bunge's science informed philosophy and his systematic approach to philosophical problems The chapters explore the exceptionally wide spectrum of Bunge's contributions to metaphysics methodology and philosophy of science philosophy of mathematics philosophy of physics philosophy of psychology philosophy of social science philosophy of biology philosophy of technology moral philosophy social and political philosophy medical philosophy and education The contributors include scholars from 16 countries Bunge combines ontological realism with epistemological fallibilism He believes that science provides the best and most warranted knowledge of the natural and social world and that such knowledge is the only sound basis for moral decision making and social and political reform Bunge argues for the unity of knowledge In his eyes science and philosophy constitute a fruitful and necessary partnership Readers will discover the wisdom of this approach and will gain insight into the utility of cross disciplinary scholarship This anthology will appeal to researchers students and teachers in philosophy of science social science and liberal education programmes 1 Introduction Section I An Academic Vocation 3 chapters Section II Philosophy 12 chapters Section III Physics and Philosophy of Physics 4 chapters Section IV Cognitive Science and Philosophy of Mind 2 chapters Section V Sociology and Social Theory 4 chapters Section VI Ethics and Political Philosophy 3 chapters Section VII Biology and Philosophy of Biology 3 chapters Section VIII Mathematics 3 chapters Section IX Education 2 chapters Section X Varia 3 chapters Section XI Bibliography      **Feeling Together and Caring with One Another** Héctor Andrés Sánchez Guerrero, 2016-07-07 This book examines the human ability to participate in moments of joint feeling It presents an answer to the question concerning the nature of our faculty to share in what might be called episodes of collective affective



intentionality The proposal develops the claim that our capacity to participate in such episodes is grounded in an ability central to our human condition our capacity to care with one another about certain things The author provides a phenomenologically adequate account of collective affective intentionality that takes seriously the idea that feelings are at the core of our emotional relation to the world He details a form of group emotional orientation that relies on the fact that the participating individuals have come to share a number of concerns Readers will learn that at the heart of a collective affective intentional episode one does not merely find a set of shared concerns but also a particular mode of caring In the end the argument presented in this monograph makes plausible the idea that the emotions through which humans participate in moments of affective intentional community express our nature In addition it shows that the debate on collective affective intentionality also permits us to better understand the relationship between two conflicting philosophical pictures of ourselves the idea that we are essentially social beings and the claim that we are creatures for whom our personal existence is an issue Thus aiming at an elucidation of the nature of our ability to feel together the book offers a detailed account of what it is to situationally express our human nature by caring about something in a properly joint manner

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## **Table of Contents Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science**

1. Understanding the eBook Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - The Rise of Digital Reading Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Advantages of eBooks Over Traditional Books
2. Identifying Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - User-Friendly Interface
4. Exploring eBook Recommendations from Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Personalized Recommendations
  - Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science User Reviews and Ratings
  - Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science and Bestseller Lists
5. Accessing Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science Free and Paid eBooks
  - Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science Public Domain eBooks
  - Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science eBook Subscription Services
  - Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science Budget-Friendly Options
6. Navigating Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science eBook Formats
  - ePub, PDF, MOBI, and More
  - Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science Compatibility with Devices

- Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Highlighting and Note-Taking Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Interactive Elements Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
- 8. Staying Engaged with Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
- 9. Balancing eBooks and Physical Books Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Setting Reading Goals Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Fact-Checking eBook Content of Emergence In Science And Philosophy Routledge Studies In The Philosophy Of Science
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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