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BOSTON STUDIES IN
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Philosophy of Chemistry

Synthesis of a New Discipline

Edited by
Davis Baird, Eric Scerri and Lee McIntyre



Springer

Philosophy Of Chemistry Synthesis Of A New Discipline

Mario De Caro, David Macarthur



Philosophy Of Chemistry Synthesis Of A New Discipline:

Philosophy of Chemistry Davis Baird, Eric Scerri, Lee McIntyre, 2006-06-26 The Invisibility of Chemistry DAVIS BAIRD South Carolina Honors College University of South Carolina ERIC SCERRI Department of Chemistry and Biochemistry University of California Los Angeles LEE MCINTYRE Center for Philosophy and History of Science Boston University BUTWHATAREALLTHOSECHEMISTS DOING Recently one of us Davis Baird attended a meeting of historians of science and technology spanning all of the natural sciences and engineering and all western periods ancient through contemporary In the discussion of a paper on state of the art history of modern 18th century forward chemistry a member of the audience made the claim that there was very little left to do in contemporary chemistry and that chemistry departments in his country were having trouble attracting graduate students Baird found this perspective on contemporary chemistry both remarkable and implausible and said as much At the University of South Carolina USC where he teaches chemistry enrolls and graduates 10 times as many graduate students as physics In this USC is not unique The discipline of chemistry is in fact enormous and enormously productive Joachim Schummer in this volume Chapter 2 makes the point persuasively and concisely with data on the number of publications in various fields With a grand total just shy of 900 000 papers indexed in chemical abstracts for the year 2000 chemistry is larger than all of the other natural sciences combined **Philosophy of Chemistry** Eric Scerri, Lee McIntyre, 2014-11-11 This volume follows the successful book which has helped to introduce and spread the Philosophy of Chemistry to a wider audience of philosophers historians science educators as well as chemists physicists and biologists The introduction summarizes the way in which the field has developed in the ten years since the previous volume was conceived and introduces several new authors who did not contribute to the first edition The editors are well placed to assemble this book as they are the editor in chief and deputy editors of the leading academic journal in the field *Foundations of Chemistry* The philosophy of chemistry remains a somewhat neglected field unlike the philosophy of physics and the philosophy of biology Why there has been little philosophical attention to the central discipline of chemistry among the three natural sciences is a theme that is explored by several of the contributors This volume will do a great deal to redress this imbalance Among the themes covered is the question of reduction of chemistry to physics the reduction of biology to chemistry whether true chemical laws exist and causality in chemistry In addition more general questions of the nature of organic chemistry biochemistry and chemical synthesis are examined by specialists in these areas *Philosophy of Chemistry* Andrea Woody, Robin Findlay Hendry, Paul Needham, 2012 *Philosophy of Chemistry* investigates the foundational concepts and methods of chemistry the science of the nature of substances and their transformations This groundbreaking collection the most thorough treatment of the philosophy of chemistry ever published brings together philosophers scientists and historians to map out the central topics in the field The 33 articles address the history of the philosophy of chemistry and the philosophical importance of some central figures in the history of chemistry the nature of chemical substances central

chemical concepts and methods including the chemical bond the periodic table and reaction mechanisms and chemistry's relationship to other disciplines such as physics molecular biology pharmacy and chemical engineering This volume serves as a detailed introduction for those new to the field as well as a rich source of new insights and potential research agendas for those already engaged with the philosophy of chemistry Provides a bridge between philosophy and current scientific findings Encourages multi disciplinary dialogue Covers theory and applications *Gunther Anders' Philosophy of Technology*

Babette Babich, 2021-10-21 Gunther Anders Philosophy of Technology is the first comprehensive exploration of the groundbreaking work of German thinker Gunther Anders Anders philosophy has become increasingly prescient in our digitised technological age as his work predicts the prevalence of social media ubiquitous surveillance and the turn to big data Anders oeuvre also explored the technologies of nuclear power and the biotech concerns for the human and transhuman condition which have become so central to current theory Babette Babich argues that Anders offers important resources on streaming digital media through his writings on radio television and film and is unusually both a comprehensive and profound thinker Anders relationship with key philosophers like Hannah Arendt and Walter Benjamin and his thinking on Goethe Nietzsche and Rilke is also explored with a focus on the deep impact he made on his peers It reflects specifically on the intersection of Anders thought Heidegger and the Frankfurt school and how influential a figure he was on the landscape of 20th century philosophy A compelling rehabilitation of a thinker with profound contemporary relevance **International Handbook of**

Research in History, Philosophy and Science Teaching Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for this unique encyclopaedic handbook Gerald Holton Physics Department

Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia **Toward a New Dimension** Anne Marcovich, Terry Shinn, 2014 Over the course of the last thirty years the investigation of objects at the nano scale has rocketed Nanoscale scientific research has not only powerfully affected the amount and orientation of knowledge it has perhaps even more significantly redirected the ways in which much research work is carried out changed scientists methodology and reasoning processes and influenced aspects of the structure of career trajectory and the functioning of scientific disciplines This book identifies key historical moments and episodes in the birth and evolution of nanoscience discusses the novel repertory of epistemological concerns of practitioners and signals sociological propensities As Galileo s telescope explored the moon s surface four hundred years ago nano instrumentation now makes it possible to see the surface of single molecules Moreover practitioners are able to manipulate individual atoms and molecules at will to produce pre designed synthetic materials non existent in nature The combinatorial of heightened observational capacity and the tailoring of synthetic artificial materials exhibiting hitherto novel physical properties has widened and transformed the worlds of scientific knowledge and technical artefact This book invites the question to what extent does nanoscale scientific research constitute a kind of scientific revolution **Space, Time, and Aliens** Steven J. Dick, 2020-05-11 In this comprehensive and interdisciplinary volume former NASA Chief Historian Steven Dick reflects on the exploration of space astrobiology and its implications cosmic evolution astronomical institutions discovering and classifying the cosmos and the philosophy of astronomy The unifying theme of the book is the connection between cosmos and culture or what Carl Sagan many years ago called the cosmic connection As both an astronomer and historian of science Dr Dick has been both a witness to and a participant in many of the astronomical events of the last half century This collection of papers presents his reflections over the last forty years in a way accessible to historians philosophers and scientists alike From the search for alien life to ongoing space exploration efforts readers will find this volume full of engaging topics relevant to science society and our collective future on planet Earth and beyond *Neo-Aristotelian Perspectives on Contemporary Science* William M.R. Simpson, Robert C. Koons, Nicholas J. Teh, 2017-10-19 The last two decades have seen two significant trends emerging within the philosophy of science the rapid development and focus on the philosophy of the specialised sciences and a resurgence of Aristotelian metaphysics much of which is concerned with the possibility of emergence as well as the ontological status and indispensability of dispositions and powers in science Despite these recent trends few Aristotelian metaphysicians have engaged directly with the philosophy of the specialised sciences Additionally the relationship between fundamental Aristotelian concepts such as hylomorphism substance and faculties and contemporary science has yet to receive a critical and systematic treatment *Neo Aristotelian Perspectives on Contemporary Science* aims to fill this gap in the literature by bringing together essays on the relationship between Aristotelianism and science that cut across interdisciplinary boundaries

The chapters in this volume are divided into two main sections covering the philosophy of physics and the philosophy of the life sciences. Featuring original contributions from distinguished and early career scholars, this book will be of interest to specialists in analytical metaphysics and the philosophy of 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 František 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. *A Basic Theory of Everything* Atle Ottesen Søvik, 2022-04-04. What are the basic building blocks of the world? This book presents a naturalistic theory saying that the universe and everything in it can be reduced to three fundamental entities: a field, a set of values that can be actualized at different places in the field, and an actualizer of the values. The theory is defended by using it to answer the main questions in metaphysics, such as: What is causality? existence? laws of nature? consciousness? thinking? free will? time? mathematical entities? ethical values? etc. The theory is compared with the main alternatives and argued to solve problems better than the existing theories. Several new theories are suggested, such as how to understand mental causation, free will, and the truth of ethics and mathematics. *The Lost Elements* Marco Fontani, Mariagrazia Costa, Mary Virginia Orna, 2015. The story of the false entries, good faith errors, retractions, and mistakes that occurred during the formation of the Periodic Table of Elements as we know it.

What Is A Chemical Element? Eric Scerri, Elena Ghibaudi, 2020-05-11. The concept of a chemical element is foundational within the field of chemistry, but there is wide disagreement over its definition. Even the International Union for Pure and Applied Chemistry (IUPAC) claims two distinct definitions: a species of atoms versus one which identifies chemical elements with the simple substances bearing their names. The double definition of elements proposed by the International Union for Pure and Applied Chemistry contrasts an abstract meaning and an operational one. Nevertheless, the philosophical aspects of this notion are not fully captured by the IUPAC definitions, despite the fact that they were crucial for the construction of the Periodic Table. Although rich scientific literature on the element and the periodic table exists, as well as a recent growth in the philosophy of chemistry, scholars are still searching for a definitive answer to this important question: What is an element? Eric Scerri and Elena Ghibaudi have teamed up to assemble a group of scholars to provide readers an overview of the current state of the debate on chemical elements from epistemological, historical, and educational perspectives. *What Is A Chemical Element* fills a gap for the benefit of the whole chemistry community: experimental researchers, philosophers, chemistry

educators and anyone looking to learn more about the elements of the periodic table

The Atlas of Reality Robert C. Koons, Timothy Pickavance, 2017-02-09 The Atlas of REALITY The Atlas of Reality A Comprehensive Guide to Metaphysics presents an extensive examination of the key concepts principles and arguments of metaphysics traditionally the very core of philosophical thought Representing the first exhaustive survey of metaphysics available the book draws from historic sources while presenting the latest cutting edge research in the field Seminal works of philosophers such as David Lewis Alvin Plantinga Kit Fine Peter van Inwagen John Hawthorne and many others are covered in depth without neglecting the critical contributions of historical figures like Ren Descartes Gottfried Wilhelm Leibniz Bertrand Russell and more Written in an accessible manner without sacrificing rigor readers at all levels will gain illuminating insights into metaphysical topics ranging from the problem of universals individuation and composition and relations and qualities to time space causation existence modality and idealism The authors also articulate the emergence of several coherent metaphysical theses including neo Aristotelian neo Humean and more recent alternatives put forth by W V O Quine and David M Armstrong Competing views are clearly and fairly represented and key axioms and methodological assumptions are flagged and cross referenced providing scholars with an invaluable tool for future research in metaphysics Unprecedented in breadth of topic coverage and depth of analyses The Atlas of Reality is an essential resource for those seeking a thorough understanding of one of the most compelling influential and enlightening sub fields of philosophy in today s world

Naturalism and Normativity Mario De Caro, David Macarthur, 2010 Normativity concerns what we ought to think or do and the evaluations we make For scientific naturalists the moral is reached by reducing the normative to the nonnormative For orthodox nonnaturalists the moral is found in the transcendent realm of norms This book challenges both sides of this debate

Trans(in)fusion Ranjan Ghosh, 2020-10-08 Trans in fusion is a highly original book that tries to radicalize our ways of critical thinking across disciplines The book refreshingly brings into play critical philosophy literary criticism studies in mathematics physics chemistry and developmental biology and various other disciplines and epistemes to set up a tenure and tenor of critical thinking The book is an exclusive intervention in how thinking across traditions and systems of thought can generate distinct interpretive experiences It questions in a unique transcultural and transversal bind our ways of hermeneutic and literary cultural thinking Trans in fusion resets the dialectics between text and theory

Life and Process Spyridon A. Koutroufinis, 2014-05-21 Alfred North Whitehead is arguably the most original 20th century philosopher of nature and metaphysics In recent decades a number of physicists have produced ground breaking new theories in fundamental physics influenced by his process philosophy In contrast few biologists are even aware that Whitehead s radical rethinking of the Cartesian assumptions implicit in 19th century sciences might be relevant to their enterprise This book seeks to fill this gap by exploring how Whitehead s process ontology might provide a new philosophical foundation for the biosciences of the 21st century The central premise shared by all of the volume s authors is the idea that all living processes are irreducible

processes Each chapter focuses on assumptions implicit in some of the core concepts of biology such as organism evolution information and teleology that play crucial explanatory roles in the biosciences but as metaphysical concepts fall outside its purview The authors each identify important shortcomings implicit in contemporary biological paradigms and show how an approach grounded in a process oriented metaphysics can avoid them *Philosophical and Scientific Perspectives on Downward Causation* Michele Paolini Paoletti, Francesco Orilia, 2017-02-17 Downward causation plays a fundamental role in many theories of metaphysics and philosophy of mind It is strictly connected with many topics in philosophy including but not limited to emergence mental causation the nature of causation the nature of causal powers and dispositions laws of nature and the possibility of ontological and epistemic reductions *Philosophical and Scientific Perspectives on Downward Causation* brings together experts from different fields including William Bechtel Stewart Clark and Tom Lancaster Carl Gillett John Heil Robin F Hendry Max Kistler Stephen Mumford and Rani Lill Anjum who delve into classic and unexplored lines of philosophical inquiry related to downward causation It critically assesses the possibility of downward causation given different ontological assumptions and explores the connection between downward causation and the metaphysics of causation and dispositions Finally it presents different cases of downward causation in empirical fields such as physics chemistry biology and the neurosciences This volume is both a useful introduction and a collection of original contributions on this fascinating and hotly debated philosophical topic **Leibniz's Metaphysics of Time and Space** Michael Futch, 2008-04-05 Leibniz's metaphysics of space and time stands at the centre of his philosophy and is one of the high water marks in the history of the philosophy of science In this work Futch provides the first systematic and comprehensive examination of Leibniz's thought on this subject In addition to elucidating the nature of Leibniz's relationalism the book fills a lacuna in existing scholarship by examining his views on the topological structure of space and time including the unity and unboundedness of space and time It is shown that like many of his more recent counterparts Leibniz adopts a causal theory of time where temporal facts are grounded on causal facts and that his approach to time represents a precursor to non tensed theories of time Futch then goes on to situate Leibniz's philosophy of space and time within the broader context of his idealistic metaphysics and natural theology Emphasizing the historical background of Leibniz's thought the book also places him in dialogue with contemporary philosophy of science underscoring the enduring philosophical interest of Leibniz's metaphysics of time and space **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

People at the Well Hans Peter Hahn, Karlheinz Cless, Jens Soentgen, 2012-04 Water is never just H₂O It is always more It has its own ways of world making and is much more than just a substance or a commodity Water is also a focal point of religious meanings and inspires cultural practices The book shows the different forms the wide range and the impressive diversity of people's dealings with water in different cultures It presents case studies from various parts of the world staging problems about changing accessibility of water and the expectations of men and women at different places While focusing on the micro level the transdisciplinary approach highlights the fundamental differences of water related meanings and practices

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