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BOSTON STUDIES IN  
THE PHILOSOPHY OF SCIENCE

Pierre Duhem

# Mixture and Chemical Combination

And Related Essays

Edited and translated  
with an Introduction, by  
Paul Needham

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# Mixture And Chemical Combination And Related Essays

**Stuart Gillespie, Philip Hardie**



## **Mixture And Chemical Combination And Related Essays:**

*Mixture and Chemical Combination* Pierre Duhem, 2013-04-17 Much of Duhem's work as a professional scientist was closely related to the newly emerging discipline of physical chemistry. The book and associated papers translated here revolve around his concomitant philosophical and historical interests in chemistry topics largely uncovered by Duhem's writings hitherto available in English. He understood contemporary concerns of chemists to be a development of the ancient dispute over the nature of mixture. Having developed his historical account from distinctions drawn from the atomists and Aristotelians of antiquity, he places his own views of chemical combination squarely within the Aristotelian tradition. Apart from illuminating Duhem's own work, it is of interest to see how the ancient dispute can be related to modern science by someone competent to make such comparisons. The book is lucid and logically stringent without assuming any particular mathematical prerequisites and provides a masterly statement of an important line of nineteenth-century thought which is of interest in its own right as well as providing insight into Duhem's broader philosophical views. *Handbook for the*

*Historiography of Science* Mauro L. Condé, Marlon Salomon, 2023-09-30 This book aims to perform a critical and broad assessment of the historiography of science produced from the late nineteenth century to the early twenty-first century. It presents its main authors' concepts, ideas, conceptions, and schools. It also analyzes the historical circumstances of the rise of the discipline, history of science, and the relations of the historiography of science with related areas. These chapters do not understand the historiography of science as a mere description or record of the history of science. Instead, they understand the historiography of science from the epistemological criteria and choices that guided the writing of the history of science in its different contexts. In other words, more than describing the record of the various possibilities of historiographical approaches to science, the chapters carry out an epistemological reflection to assess the bases, possibilities, scope, and limits of different historiographical conceptions, authors, and traditions that have established the writing of the history of science. This book can be conceived as a reference work not only for professional historians and philosophers but also for academics from different backgrounds who are initiating themselves in the universe of history and philosophy of science, be they scientists from different fields or young researchers from different backgrounds who want to start studying the history and philosophy of science. *Commentary on the Principles of Thermodynamics by Pierre Duhem* Paul Needham, 2011-05-30

Pierre Duhem (1861–1916) held the chair of theoretical physics at Bordeaux from 1894 to his death. He established a reputation in both the history and philosophy of science as well as in science itself, physics, and physical chemistry. Much of his work in the first two areas has been translated into English, but little of his technical scientific work. The present volume contains early work of Duhem illustrating his interest in the rigorous development of physical theory for which he is famous. It opens with what was the first critical discussion of Gibbs' groundbreaking *On the Equilibrium of Heterogeneous Substances* (1876) where Duhem addressed the problem that, as he put it, "Mathematicians regret that the principles of Thermodynamics

should have been developed in general with so little precision that the same proposition can be regarded by some as a consequence and by others as a negation of these principles The other papers forming a three part series pursue this project of putting the foundations of thermodynamics on a clearer and more secure basis This book will be of interest to scholars in history and philosophy of science especially those interested in the development of physical chemistry and the work of Pierre Duhem

**From the Atom to Living Systems** Marina Paola Banchetti-Robino, Giovanni Villani, 2023 This book represents a philosophical and scientific journey that will proceed according to three stages of increasing levels of complexity beginning with the atom then moving to macromolecules and finally moving to the threshold of life The first stage analyzes the transition from the qualitatively undifferentiated atom to differentiated atoms The second stage analyzes the passage from atoms to molecule and the third stage examines the passage from molecule to macromolecule

**What was Mechanical about Mechanics** J.C. Boudri, 2013-04-17 The Age of Reason is left the Dark Ages of the history of mechanics Clifford A Truesdell 1 1 THE INVISIBLE TRUTH OF CLASSICAL PHYSICS There are some questions that physics since the days of Newton simply cannot answer Perhaps the most important of these can be categorized as questions of ethics and questions of ultimate meaning The question of humanity's place in the cosmos and in nature is pre eminently a philosophical and religious one and physics seems to have little to contribute to answering it Although physics claims to have made very fundamental discoveries about the cosmos and nature its concern is with the coherence and order of material phenomena rather than with questions of meaning Now and then thinkers such as Stephen Hawking or Fritjof Capra emerge who appear to claim that a total world view can be derived from physics Generally however such authors do not actually make any great effort to make good on their claim to completeness their answers to questions of meaning often pale in comparison with their answers to conventional questions in physics Moreover to the extent that they do attempt to answer questions of meaning it is easy to show that they 3 draw on assumptions from outside physics

**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

**An Epistemic Foundation for Scientific Realism** John Wright, 2018-11-02 This monograph develops a new way of justifying the claims made by science about phenomenon not directly observable by humans such as atoms and black holes It details a way of making inferences to the existence and properties of unobservable entities and states of affairs that can be given a probabilistic justification The inferences used to establish realist claims are not a form of and neither do they rely on inference to the best explanation Scientific Realism maintains that scientific theories and hypotheses refer to real entities forces and relations even if one cannot examine them But there are those who doubt these claims The author develops a novel way of defending Scientific Realism against a range of influential attacks He argues that in some cases at least we can make probabilistically justifiable inferences from observed data to claims about unobservable theoretical entities He shows how this enables us to place some scientific realist claims on a firmer epistemological footing than has previously been the case This also makes it possible to give a unified set of replies to the most common objections to Scientific Realism The final chapters apply the developed conceptual apparatus to key cases from the history of science and from recent science One example concerns realism with respect to atoms Another looks at inferences from recent astronomical data to conclusions about the size and shape of those parts of the universe lying beyond that which we can observe

What Is This Thing Called Science? Alan F. Chalmers, 2013-09-15 Co published with the University of Queensland Press HPC holds rights in North America and U S Dependencies Since its first publication in 1976 Alan Chalmers s highly regarded and widely read work translated into eighteen languages has become a classic introduction to the scientific method known for its accessibility to beginners and its value as a resource for advanced students and scholars In addition to overall improvements and updates inspired by Chalmers s experience as a teacher comments from his readers and recent developments in the field this fourth edition features an extensive chapter long postscript that draws on his research into the history of atomism to illustrate important themes in the philosophy of science Identifying the qualitative difference between knowledge of atoms as it figures in contemporary science and metaphysical speculations about atoms common in philosophy since the time of Democritus offers a revealing and instructive way to address the question at the heart of this groundbreaking work What is this thing called science

**Equilibrium in Economics** Valeria Mosini, 2008-01-07 General Equilibrium Theory which became the dominating paradigm after the Second World War is founded on the postulated existence uniqueness and stability of equilibrium in economic processes Since then the concept has come under sustained attack from all points of the heterodox compass from Austrian economists to Marxists Partly in response to these pressures mainstream economics has changed and moved away from the rigid framework of GET Nonetheless economists are continually arguing in terms of equilibrium and the existence of a variety of equilibrium concepts continues to stir controversy The contributions in this book which include articles from Tony Lawson Ivor Grattan Guinness and Roger Backhouse highlight current notions of equilibrium in economics

and provide a guide to understanding the links between economic theory and economic reality     The Cambridge Companion to Lucretius Stuart Gillespie, Philip Hardie, 2007-10-18 Lucretius didactic poem *De rerum natura* On the Nature of Things is an impassioned and visionary presentation of the materialist philosophy of Epicurus and one of the most powerful poetic texts of antiquity After its rediscovery in 1417 it became a controversial and seminal work in successive phases of literary history the history of science and the Enlightenment In this 2007 Cambridge Companion experts in the history of literature philosophy and science discuss the poem in its ancient contexts and in its reception both as a literary text and as a vehicle for progressive ideas The Companion is designed both as an accessible handbook for the general reader who wishes to learn about Lucretius and as a series of stimulating essays for students of classical antiquity and its reception It is completely accessible to the reader who has only read Lucretius in translation     **Macroscopic Metaphysics** Paul Needham, 2018-01-08 This book is about our ordinary concept of matter in the form of enduring continuants and the processes in which they are involved in the macroscopic realm It emphasises what science rather than philosophical intuition tells us about the world and chemistry rather than the physics that is more usually encountered in philosophical discussions The central chapters dealing with the nature of matter pursue key steps in the historical development of scientific conceptions of chemical substance Like many contemporary discussions of material objects it relies heavily on mereology The classical principles are applied to the mereological structure of regions of space intervals of time processes and quantities of matter Quantities of matter which don't gain or lose parts over time are distinguished from individuals which are typically constituted of different quantities of matter at different times The proper treatment of the temporal aspect of the features of material objects is a central issue in this book which is addressed by investigating the conditions governing the application of predicates relating time and other entities Of particular interest here are relations between quantities of matter and times expressing substance kind phase and mixture Modal aspects of these features are taken up in the final chapter

*Chemistry: The Impure Science (2nd Edition)* Jonathan Simon, Bernadette Bensaude-vincent, 2012-06-26 What do you associate with chemistry Explosions innovative materials plastics pollution The public's confused and contradictory conception of chemistry as basic science industrial producer and polluter contributes to what we present in this book as chemistry's image as an impure science Historically chemistry has always been viewed as impure both in terms of its academic status and its role in transforming modern society While exploring the history of this science we argue for a characteristic philosophical approach that distinguishes chemistry from physics This reflection leads us to a philosophical stance that we characterise as operational realism In this new expanded edition we delve deeper into the questions of properties and potentials that are so important for this philosophy that is based on the manipulation of matter rather than the construction of theories a     *Philosophy, History and Biology: Essays in Honour of Jean Gayon* Pierre-Olivier Méthot, 2023-06-26 This book builds on recent scholarship highlighted in the edited collections *Philosophie histoire biologie*

mlanges offert Jean Gayon Merlin Huneman 2018 and Knowledge of Life Today Gayon Petit 2018 2019 While honoring the career and the thought of Jean Gayon 1949 2018 this book showcases the continued relevance of Gayon s interdisciplinary work and illustrates his central place in the community of historians and philosophers of the life sciences Chapters in this book address Jean Gayon s intellectual trajectory from historical epistemology to the philosophy of biology the nature and scope of his philosophical approach to the history of science and his unique contributions to the history and epistemology of biological concepts and theories Drawing on published and unpublished sources the book explores some of Gayon s most significant contributions to the philosophy history and social studies of biology

### **The Philosophy of Chemistry**

Jean-Pierre Llored, 2014-09-26 This volume connects chemistry and philosophy in order to face questions raised by chemistry in our present world The idea is first to develop a kind of philosophy of chemistry which is deeply rooted in the exploration of chemical activities We thus work in close contact with chemists technicians engineers researchers and teachers Following this line of reasoning the first part of the book encourages current chemists to describe their workaday practices while insisting on the importance of attending to methodological metrological philosophical and epistemological questions related to their activities It deals with sustainable chemistry chemical metrology nanochemistry and biochemistry among other crucial topics In doing so those chemists invite historians and philosophers to provide ideas for future developments In a nutshell this part is a call for forthcoming collaborations focused on instruments and methods that is on ways of doing chemistry The second part of the book illustrates the multifarious ways to study chemistry and even proposes new approaches to doing so Each approach is interesting and incomplete but the emergent whole is richer than any of its components Analytical work needs socio historical expertise as well as many other approaches in order to keep on investigating chemistry to greater and greater depth This heterogeneity provides a wide set of methodological perspectives not only about current chemical practices but also about the ways to explore them philosophically Each approach is a resource to study chemistry and to reflect upon what doing philosophy of science can mean In the last part of the volume philosophers and chemists propose new concepts or reshape older ones in order to think about chemistry The act of conceptualization itself is queried as well as the relationships between concepts and chemical activities Prefaced by Nobel Laureate in Chemistry Roald Hoffmann and by the President of the International Society for the Philosophy of Chemistry Rom Harr this volume is a plea for the emergence of a collective cleverness and aims to foster inventiveness

### **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 Scientific Realism Juha Saatsi,2017-11-22 Scientific realism is a central long standing and hotly debated topic in philosophy of science Debates about scientific realism concern the very nature and extent of scientific knowledge and progress Scientific realists defend a positive epistemic attitude towards our best theories and models regarding how they represent the world that is unobservable to our naked senses Various realist theses are under sceptical fire from scientific antirealists e g empiricists and instrumentalists The different dimensions of the ensuing debate centrally connect to numerous other topics in philosophy of science and beyond The Routledge Handbook of Scientific Realism is an outstanding reference source the first collection of its kind to the key issues positions and arguments in this important topic Its thirty four chapters written by a team of international experts are divided into five parts Historical development of the realist stance Classic debate core issues and positions Perspectives on contemporary debates The realism debate in disciplinary context Broader reflections In these sections the core issues and debates presented analysed and set into broader historical and disciplinary contexts The central issues covered include motivations and arguments for realism challenges to realism from underdetermination and history of science different variants of realism the connection of realism to relativism and perspectivism and the relationship between realism metaphysics and epistemology The Routledge Handbook of Scientific Realism is essential reading for students and researchers in philosophy of science It will also be very useful for anyone interested in the nature and extent of scientific knowledge

**The Reception of the Galilean Science of Motion in Seventeenth-Century Europe** Carla Rita Palmerino,J.M.M.H. Thijssen,2013-03-20 This book collects contributions by some of the leading scholars working on seventeenth century mechanics and the mechanical philosophy Together the articles provide a broad and accurate picture of the fortune of Galileo s theory of motion in Europe and of the various physical mathematical and ontological arguments that were used in favour and against it Were Galileo s contemporaries really aware of what Westfall has described as the incompatibility between the demands of mathematical mechanics and the needs of mechanical philosophy To what extent did Galileo s silence concerning the cause of free fall impede the acceptance of his theory of motion Which methods were used before the invention of the infinitesimal calculus to check the validity of Galileo s laws of free fall and of parabolic motion And what sort of experiments were invoked in favour or against these laws These and related questions are addressed in this volume

Rethinking Scientific Change and Theory Comparison: Léna Soler,H. Sankey,Paul Hoyningen-Huene,2008-05-29 L NA SOLER This volume is a collection of essays devoted to the analysis of scientific change and stability It represents the



most recent thinking on the topic of incommensurability and scientific theory change It explores the balance and tension that exists between commensurability and continuity or stabilities on the one hand and incommensurability and discontinuity or ruptures on the other And it discusses some central epistemological consequences regarding the nature of scientific progress rationality and realism With respect to these topics it investigates a number of new avenues and revisits some familiar issues with a focus on the history and philosophy of physics in a way that is informed by developments in cognitive sciences as well as the claims of New experimentalists The essays in this book are fully revised versions of papers which were originally presented at the international colloquium *Repenser l'valuation comparative des thories scientifiques stabilit s ruptures incommensurabilit s* organized by Lina Soler and Paul Hoyningen Huene at the University of Nancy France in June 2004 Each paper is followed by a critical comment which either represents an opposing viewpoint or suggests some developments The conference was a striking example of the sort of genuine dialogue that can take place between philosophers of science historians of science and scientists who come from different traditions and endorse opposing commitments I hope that this is evident in the book too and that it will constitute one of its attractions

#### **Handbook of Potentiality** Kristina

Engelhard, Michael Quante, 2018-04-18 This volume congregates articles of leading philosophers about potentials and potentiality in all areas of philosophy and the empirical sciences in which they play a relevant role It is the first encompassing collection of articles on the metaphysics of potentials and potentiality Potentials play an important role not only in our everyday understanding of objects persons and systems but also in the sciences An example is the potential to become an adult human person Moreover the attribution of potentials involves crucial ethical problems Bioethics makes references to the theoretical concept potential without being able to clarify its meaning However despite its relevance it has not been made subject of philosophical investigation Mostly potentials are regarded as a subspecies of dispositions Whilst dispositions are a flourishing field of research potentials as such have not come into focus Potentials like dispositions are modal properties But already a first glance at the metaphysics of potentials shows that concerning their ascription potentials are more problematic than dispositions since potential means that an entity has the potential to acquire a property in the future Therefore potentials involve a time structure of the entities in question that is much more complex than those of dispositions This handbook brings this important concept into focus in its various aspects for the first time It covers the history of the concept as well as contemporary systematic problems and will be of special interest for philosophers in the fields of general metaphysics philosophy of science and ethics especially bioethics It will also be of interest to scientists and persons concerned with bioethical problems

#### **Atomism in Philosophy** Ugo Zilioli, 2020-11-12

The nature of matter and the idea of indivisible parts has fascinated philosophers historians scientists and physicists from antiquity to the present day This collection covers the richness of its history starting with how the Ancient Greeks came to assume the existence of atoms and concluding with contemporary metaphysical debates about structure time and reality Focusing on important moments in the

history of human thought when the debate about atomism was particularly flourishing and transformative for the scientific and philosophical spirit of the time this collection covers The discovery of atomism in ancient philosophy Ancient non Western Arabic and late Medieval thought The Renaissance when along with the re discovery of ancient thought atomism became once again an important doctrine to be fully debated Logical atomism in early analytic philosophy with Russell and Wittgenstein Atomism in Liberalism and Marxism Atomism and the philosophy of time Atomism in contemporary metaphysics Atomism and the sciences Featuring 28 chapters by leading and younger scholars this valuable collection reveals the development of one of philosophy s central doctrines across 2 500 years and within a broad range of philosophical traditions

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