

ROUTLEDGE STUDIES IN THE PHILOSOPHY OF SCIENCE

Thought Experiments  
in Philosophy, Science,  
and the Arts

Edited by  
Mélanie Frappier, Letitia Meynell,  
and James Robert Brown



# Thought Experiments In Science And Philosophy

**Jin-Ying Zhang**



## **Thought Experiments In Science And Philosophy:**

*Thought Experiments in Science and Philosophy* Tamara Horowitz, Gerald J. Massey, 1991 Despite their centrality and importance to both science and philosophy relatively little has been written about thought experiments This volume brings together a series of extremely interesting studies of the history mechanics and applications of this important intellectual resource A distinguished list of philosophers and scientists consider the role of thought experiments in their various disciplines and argue that an examination of thought experimentation goes to the heart of both science and philosophy

**Thought Experiments in Science, Philosophy, and the Arts** Melanie Frappier, Letitia Meynell, James Robert Brown, 2012-09-10 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam of light thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences Are these experiments conducted uniquely in our imagination simply rhetorical devices or communication tools or are they an essential part of scientific practice This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments

*Thought Experiments* Roy A. Sorensen, 1992 This text analyses a variety of thought experiments and explores what they are how they work and what their positive and negative aspects are It also sets the theory within an evolutionary framework of advances in experimental psychology

[Thought Experiments in Philosophy, Science, and the Arts](#) Mélanie Frappier, Letitia Meynell, James Robert Brown, 2013 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam of light thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences Are these experiments conducted uniquely in our imagination simply rhetorical devices or communication tools or are they an essential part of scientific practice This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments

[The Laboratory of the Mind](#) James Robert Brown, 1993 Thought experiments are performed in the laboratory of the mind Beyond this metaphor it is difficult to say just what these remarkable devices for investigating nature are or how they work Though most scientists and philosophers would admit their great importance there has been very little serious study of them This volume is the first book length investigation of thought experiments Starting with Galileo's argument on falling bodies Brown describes numerous examples of the most influential thought experiments from the history of science Following this introduction to the subject some substantial and provocative claims are made the principle being that some thought experiments should be understood in the same way that platonists understand mathematical activity as an intellectual grasp of an independently existing abstract realm With its clarity of style and structure *The Laboratory of the Mind* will find readers among all philosophers of science as well as scientists who have puzzled over how thought experiments work

*Thought Experiments in Science, Philosophy, and the Arts* Melanie Frappier, Letitia Meynell, James Robert Brown, 2012-09-10 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam

of light thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences Are these experiments conducted uniquely in our imagination simply rhetorical devices or communication tools or are they an essential part of scientific practice This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments

*Thought Experiments* Nenad Miscevic,2022 This book offers a readable introduction to the main aspects of thought experimenting in philosophy and science together with related imaginative activities in mathematics and linguistics It presents the main options in understanding thought experiments from empiricism to Platonism and discusses their strengths and weaknesses However it also provides some original perspectives on the topic Firstly it provides a new definition and analysis of thought experimenting that brings it closer to laboratory experimenting Secondly it develops the author s earlier theory of mental modelling proposed some decades ago by him and some other researchers in the field as the crucial procedure in thought experimenting The mental modelling approach links work with thought experimenting to cognitive science and to research on mental simulation which is a hot topic in present day research Thirdly it proposes a principled way to respond to criticism of thought experimenting by experimental philosophers as they have been dominating the present day debates The response suggests a possible ameliorative self help project for thought experimenting Finally the book provides a way to systematize the history of important thought experiments in science and philosophy and thus connects in an original way the systematic investigation of experimenting to the historical work of famous thought experiments It is of interest to scholars interested in history of ideas and philosophy of science

**Thought Experiments, Science, and Theology** Yiftach Fehige,2023-10-30 Did Adam have a navel Did Adam and Eve have sex Is God merely a fictional character like Superman Without thought experiments like these the field of science and religion would be severely impoverished Thought experiments are exercises of the imagination Like in many other disciplines the imagination has not received the attention it deserves in theology This book argues that the imagination must be taken seriously as an engine for progress It offers a theology of the imagination that is consistent with and goes beyond existing discussions about pluralism at the intersection of science and religion

**The Routledge Companion to Thought Experiments** Michael T Stuart,Yiftach Fehige,James Robert Brown,2017-07-20 Thought experiments are a means of imaginative reasoning that lie at the heart of philosophy from the pre Socratics to the modern era and they also play central roles in a range of fields from physics to politics The Routledge Companion to Thought Experiments is an invaluable guide and reference source to this multifaceted subject Comprising over 30 chapters by a team of international contributors the Companion covers the following important areas the history of thought experiments from antiquity to the trolley problem and quantum non locality thought experiments in the humanities arts and sciences including ethics physics theology biology mathematics economics and politics theories about the nature of thought experiments new discussions concerning the impact of experimental philosophy cross cultural comparison studies metaphilosophy computer simulations idealization dialectics cognitive science the artistic

nature of thought experiments and metaphysical issues This broad ranging Companion goes backwards through history and sideways across disciplines It also engages with philosophical perspectives from empiricism rationalism naturalism skepticism pluralism contextualism and neo Kantianism to phenomenology This volume will be valuable for anyone studying the methods of philosophy or any discipline that employs thought experiments as well as anyone interested in the power and limits of the mind

*Thought Experiments* Sundar Vedantham,2020-03-31 Is there a connection between the COVID 19 pandemic four students who skipped a class to watch a movie Greek philosopher Socrates and a clock tower in Switzerland Yes these are all involved in various thought experiments floating around in this universe This book captures them all touching a wide range of topics such as economics ethics physics mathematics medicine democracy artificial intelligence and machine learning Written in simple language the ideas discussed may serve as material for family discussions party conversations or intriguing classroom debates Once you get the book a virtual tour of the entire universe will be on your finger tips

**Philosophy Illustrated** Helen De Cruz,2021-11-30 Thought experiments are tools philosophers and scientists use to investigate how things are without actually having to go out and experiment in the real world This book presents forty two philosophical thought experiments Each thought experiment is illustrated by De Cruz who is an illustrator as well as a philosopher and is summarized in one or two paragraphs which is followed by a brief exploration of its significance Each thought experiment also includes a longer approximately 2 page reflection written by a philosopher who is a specialist in the field De Cruz s unique illustrations serve as visual and accessible starting points for classroom discussions in Intro to Philosophy courses

*Thought Experiments in Methodological and Historical Contexts* ,2011-06-09 During the last decades of the twentieth century highly imaginative thought experiments were introduced in philosophy Searle s Chinese room variations on the Brain in a vat Thomson s violinist At the same time historians of philosophy and science claimed the title of thought experiment for almost any argument Descartes evil genius Buridan s ass Gyges ring In the early 1990s a systematic debate began concerning the epistemological status of thought experiments The essays in this volume are an outcome of this debate They were guided by the idea that since we cannot forge a strict definition of thought experiments we should at least tame the contemporary wild usage of this notion by analysing thought experiments from various periods and thus clarify how they work what their limits are and what their conceptualisation could be Medieval and Early Modern Science 15

**What If?** Nicholas Rescher, Thought experimentation has been a staple of philosophical methodology since classical antiquity when Xenophanes of Colophon speculated that if horses had gods they would be equine in form Nicholas Rescher s What If undertakes a systematic survey of the role and utility of thought experiments in philosophy After surveying the historical issues Rescher examines the principles involved and explains the conditions under which thought experimentation can validly yield instructive results in philosophy The reader gains understanding of the differences between scientific and philosophical experiments What If begins by examining the nature of thought experiments It presents an overview of how thought

experiments have figured in natural science and in historical studies before moving on to examine how they function as an instrument of philosophical inquiry After examining thought experiments from the pre Socratics to the present day Rescher turns from history to analysis and examines the modes of reasoning involved in the use of speculative hypotheses in philosophical problem solving He shows the limitations of speculative ontology showing that thought experimentation can lead readily to paradox in a way that increasingly diminishes its usefulness The book concludes by arguing and illustrating how and when it becomes pointless to push speculation or thought experimentation beyond the limits of intelligibility and cogent sense Among the principal features of Rescher s book is its elaborate analysis of the appropriate conditions for philosophical thought experimentation Its cardinal thesis is that there indeed are limits to the appropriateness of this important methodological resource and that transgressing these limits destroys the prospect of drawing any valid lessons for the philosophical enterprise What If will be of interest to philosophers students of philosophy and theorists of logic and reasoning Nicholas Rescher is University Professor of Philosophy at the University of Pittsburgh He is the author of numerous philosophical works and holds six honorary degrees from universities on three continents He has served as a president of the American Philosophical Association the American Metaphysical Society and the American Catholic Philosophical Association

Philosophy Illustrated Helen de Cruz,2021-11-30

Wittgenstein's Beetle and Other Classic Thought Experiments Martin Cohen,2008-04-15 Wittgenstein s Beetle and Other Classic Thought Experiments invites readers to participate actively in discovering the surprisingly powerful and fruitful tradition of thought experiments Gives a lively presentation of an A to Z of 26 fascinating and influential thought experiments from philosophy and science Presents vivid and often humorous discussion of the experiments including strengths and weaknesses historical context and contemporary uses Provides a how to section for engaging in thought experiments Includes illustrations mini biographies and suggestions for further reading

**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 Demons of Science Friedel Weinert,2016-05-19 This book is the first all encompassing exploration of the role of demons in philosophical and scientific thought experiments

In Part I the author explains the importance of thought experiments in science and philosophy Part II considers Laplace's Demon whose claim is that the world is completely deterministic Part III introduces Maxwell's Demon who by contrast experiences a world that is probabilistic and indeterministic Part IV explores Nietzsche's thesis of the cyclic and eternal recurrence of events In each case a number of philosophical consequences regarding determinism and indeterminism the arrows of time the nature of the mind and free will are said to follow from the Demons's worldviews The book investigates what these Demons and others can and cannot tell us about our world

*Epistemology: 50 Puzzles, Paradoxes, and Thought Experiments* Kevin McCain, 2021-07-26 In this new kind of entry to contemporary epistemology Kevin McCain presents fifty of the field's most important puzzles paradoxes and thought experiments Assuming no familiarity with epistemology from the reader McCain titles each case with a memorable name describes the details of the case explains the issues to which the case is relevant and assesses its significance McCain also briefly reviews the key responses to the case that have been put forward and provides a helpful list of suggested readings on the topic Each entry is accessible succinct and self contained

*Epistemology 50 Puzzles Paradoxes and Thought Experiments* is a fantastic learning tool as well as a handy resource for anyone interested in epistemological issues

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**Philosophy of Mind** Torin Alter, Amy Kind, Robert J. Howell, 2024-02-12 Imaginative cases or what might be called puzzles and other thought experiments play a central role in philosophy of mind The real world also furnishes philosophers with an ample supply of such puzzles This volume collects 50 of the most important historical and contemporary cases in philosophy of mind and describes their significance The authors divide them into five sections consciousness and dualism physicalist theories and the metaphysics of mind content intentionality and representation perception imagination and attention and persons personal identity and the self Each chapter provides background describes a central case or cases discusses the relevant literature and suggests further readings

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**Encyclopedia of Cognitive Science, 4 Volume Set** Lynn Nadel, 2005-09-23 An exciting reference work which captures current thinking about the workings of the mind and brain focusing on problems that are as old as recorded history but reflecting new approaches and techniques that have emerged since the 1980's The Encyclopedia contains 696 articles

covering in depth the entire spectrum of the cognitive sciences Reviewing the common themes of information and information processing representation and computation it also covers in depth the core areas of psychology philosophy linguistics computer science and neuroscience Ancillary topics such as education economics evolutionary biology and anthropology are also covered The articles have been written to provide multiple levels of information so that readers from various levels can benefit from this set from undergraduate and postgraduate students to university lecturers With extensive cross referencing a glossary and subject index to further aid the reader through the book the Encyclopedia of Cognitive Science is an essential addition to any library or office shelf The Encyclopedia of Cognitive Science ECS includes 4 Volumes 4000 pages 696 articles Contributions from the world s leading experts 1 500 illustrations Detailed indexes and appendices Extensive cross referencing

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