

## How Hume And Mach Helped Einstein Find Special Relativity

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### [How Hume and Mach Helped Einstein Find Special Relativity](#)

Abstract. In recounting his discovery of special relativity, Einstein recalled a debt to the philosophical writings of Hume and Mach. I review the path Einstein took to special relativity and urge that, at a critical juncture, he was aided decisively not by any specific doctrine of space and time, but by a general account of concepts that Einstein found in Hume and Mach ' s writings.

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How Hume And Mach Helped Einstein Find Special Relativity how hume and mach helped how hume and mach helped Einstein ' s discovery is concerned with space and, more essentially, time; and Hume and especially Mach ' s works are known for their critical analyses of the notions of space and time. Yet the match is not so perfect.

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Addressing a wide range of topics, from Newton to Post-Kuhnian philosophy of science, these essays critically examine themes that have been central to the influential work of philosopher Michael Friedman. Special focus is given to Friedman's revealing study of both history of science and philosophy in his work on Kant, Newton, Einstein, and other major figures. This interaction of history and philosophy is the subject of the editors' "manifesto" and serves to both explain and promote the essential ties between two disciplines usually regarded as unrelated.

This book describes the basic structure and processes through which creative endeavors are initially developed and then transformed into creative contributions.

Beginning with an overview of Hume's life and work, Don Garrett introduces in clear and accessible style the central aspects of Hume's thought. These include Hume's lifelong exploration of the human mind; his theories of inductive inference and causation; skepticism and personal identity; moral and political philosophy; aesthetics; and philosophy of religion. The final chapter considers the influence and legacy of Hume's thought today. Throughout, Garrett draws on and explains many of Hume's central works, including his Treatise of Human Nature, Enquiries Concerning Human Understanding, and Dialogues Concerning Natural Religion. Hume is essential reading not only for students of philosophy, but anyone in the humanities and social sciences and beyond seeking an introduction to Hume's thought.

This second edition of Historical Dictionary of Hume's Philosophy contains a chronology, an introduction, and an extensive bibliography. The dictionary section has over 100 cross-referenced entries covering key terms, as well as brief discussions of Hume's major works and of some of his most important predecessors, contemporaries, and successors.

This book contextualizes David Hume's philosophy of physical science, exploring both Hume's background in the history of early modern natural philosophy and its subsequent impact on the scientific tradition. Drawing on Cartesian cosmology and Einstein's special relativity, and taking in topics including experimentalism, causation, laws of nature, metaphysics of forces, mathematics' relation to nature, and the concepts of space and time, this book deepens our understanding of Hume's relation to natural philosophy. It does so in addition by situating Hume's thought within the context of other major philosophers and scientists, including Descartes, Locke, Boyle, Kant, Newton, and Leibniz. Demonstrating above all Hume's understanding of the fluid relationship between philosophy and science, Hume's Natural Philosophy and Philosophy of Physical Science will provide new insights for historians and philosophers of science.

In The Shock of Recognition, Lewis Pyenson examines art and science together to shed new light on common motifs in Picasso ' s and Einstein ' s education, in European material culture, and in the intellectual life of one nation-state, Argentina.

Although David Hume ' s contributions to philosophy are firmly established, his economics has been largely overlooked. A Philosopher ' s Economist offers the definitive account of Hume ' s " worldly philosophy " and argues that economics was a central preoccupation of his life and work. Margaret Schabas and Carl Wennerlind show that Hume made important contributions to the science of economics, notably on money, trade, and public finance. Hume ' s astute understanding of human behavior provided an important foundation for his economics and proved essential to his analysis of the ethical and political dimensions of capitalism. Hume also linked his economic theory with policy recommendations and sought to influence people in power. While in favor of the modern commercial world, believing that it had and would continue to raise standards of living, promote peaceful relations, and foster moral refinement, Hume was not an unqualified enthusiast. He recognized many of the underlying injustices of capitalism, its tendencies to promote avarice and inequality, as well as its potential for political instability and absolutism. Hume ' s imprint on modern economics is profound and far reaching, whether through his close friend Adam Smith or later admirers such as John Maynard Keynes and Friedrich Hayek. Schabas and Wennerlind ' s book compels us to reconsider the centrality and legacy of Hume ' s economic thought—for both his time and ours—and thus serves as an important springboard for reflections on the philosophical underpinnings of economics.

This edited volume features essays written in honor of Ernst Mach. It explores his life, work, and legacy. Readers will gain a better understanding of this natural scientist and scholar who made major contributions to physics, the philosophy of science, and physiological psychology. The essays offer a critical inventory of Mach ' s lifework in line with state-of-the-art research and historiography. It begins with physics, where he paved the way for Einstein ' s Theory of Relativity. The account continues with Mach's contributions in biology, psychology, and physiology pioneering with an empiricist and gestalthaft Analysis of Sensations. Readers will also discover how in the philosophy of science he served as a model for the Vienna Circle with the Ernst Mach Society as well as paved the way for an integrated history and theory of science. Indeed, his influence extends far beyond the natural sciences -- to the Vienna Medical School and psychoanalysis (R. Bárány, J. Breuer, S. Freud), to literature (Jung Wien, R. Musil), to politics (F. Adler, Austro-Marxism and the Viennese adult education), to arts between Futurism and Minimal Art as well as to social sciences between the liberal school (J. Schumpeter, F. A. von Hayek) and empirical social research (P. Lazarsfeld und M. Jahoda).

Originally published in 1955, Eugene Rotwein's collection of David Hume's economic writings has become the criterion by which to measure studies of Hume's thinking on economics. Rotwein, in his extended introduction, masterfully examines the connection between Hume's various writings—economic, political, philosophical, and historical. This edition is graced with a new introduction by Margaret Schabas. Hume belonged to the same generation as that of his friend and fellow countryman Adam Smith. Hume's writings on economics, however, unlike those of Smith's, comprise a relatively small portion of his published works. They consist of nine of twelve essays in his Political Discourses, first published in 1752, and a rather small number of passages in Hume's private letters to such correspondents as Smith, Montesquieu, Turgot, and Oswald. They were all brought together here for the first time in a single volume. These writings sought to clarify the various problems of Hume's society and suggest remedies for their solution. They are still relevant for the modern reader. Included are "Of Commerce," "Of Refinement in the Arts," "Of Money," "Of Interest," "Of the Balance of Trade," "Of the Jealousy of Trade," "Of Taxes," "Of Public Credit," and "Of the Populousness of Ancient Nations," as well as the relevant extracts from Hume's letters. Long unavailable, this edition will be welcomed by students of economics, philosophy, and the Scottish Enlightenment.

This volume presents new essays on the work and thought of physicist, psychologist, and philosopher Ernst Mach. Moving away from previous estimations of Mach as a pre-logical positivist, the essays reflect his rehabilitation as a thinker of direct relevance to debates in the contemporary philosophies of natural science, psychology, metaphysics, and mind. Topics covered include Mach's work on acoustical psychophysics and physics; his ideas on analogy and the principle of conservation of energy; the correct interpretation of his scheme of 'elements' and its relationship to his 'historical-critical' method; the relationship of his thought to movements such as American pragmatism, realism, and neutral monism, as well as to contemporary figures such as Friedrich Nietzsche; and the reception and influence of his works in Germany and Austria, particularly by the Vienna Circle.

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