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# Essays In Physics

**S. D'Agostino**



## Essays In Physics:

Essays in Physics Geoffrey Brooker, 2021 Essays in Physics is a consideration of the more puzzling and exciting aspects of physics including discussions of many errors and misconceptions in the field      Essays in Physics George Keith Thurburn Conn, G. N. Fowler, 1976      **Essays in Physics** Herbert Louis Samuel, 1952      **Physics and Philosophy** H.

Margenau, 2012-12-06 This book is intended for people interested in physics and its philosophy for those who regard physics as an essential component of modern culture rather than merely a tool for industry or war Indeed this volume is addressed to those students teachers and research workers who enjoy learning teaching or doing physics and are in the habit of pausing once in a while to ponder over key physical concepts and hypotheses and to wonder whether received theories are as perfect as textbooks would have us believe and if not how they might be improved Henry Margenau recently retired from Yale University as Eugene Higgins Professor of Physics and Philosophy is the most important philosopher of physics of his generation and indeed one of the most eminent philosophers of science of our century He introduced and elucidated the notion of the correspondence rule He claimed and showed in the heyday of positivism that physics has metaphysical presuppositions He was the first to realize that quantum mechanics can do without von Neumann's projection postulate and that was as far back as 1936 He clarified the physics and the philosophy of Pauli's exclusion principle at a time when it seemed mysterious He was the first physicist to publish a philosophical paper in a physics journal which he did as early as 1941 He was also one of the rare scientists who proclaimed the need for a scientific approach to value theory and ethics

**Essays in Physics** Albert Einstein, 1969      Time & the Instant Robin Durie, 2000 Debating the nature of time this collection of essays includes both the physicist's and the philosopher's viewpoint questioning whether time exists whether it is absolute or relative and whether it is continuous or fragmented      Frontiers of Physics: 1900-1911 MILLER, 2012-12-06 P W Bridgman and the Special Theory of Relativity Ey W Bridgman wrote A S phi ticati      **Space, Time, Matter, and Form** David Bostock, 2006-02-16 Space Time Matter and Form collects ten of David Bostock's essays on themes from Aristotle's Physics four of them published here for the first time The first five papers look at issues raised in the first two books of the Physics centred on notions of matter and form and the idea of substance as what persists through change They also range over other of Aristotle's scientific works such as his biology and psychology and the account of change in his De Generatione et Corruptione The volume's remaining essays examine themes in later books of the Physics including infinity place time and continuity Bostock argues that Aristotle's views on these topics are of real interest in their own right independent of his notions of substance form and matter they also raise some pressing problems of interpretation which these essays seek to resolve      The Theoretical Practices of Physics R. I. G. Hughes, 2009-12-10 R I G Hughes presents a series of eight philosophical essays on the theoretical practices of physics The first two essays examine these practices as they appear in physicists' treatises e.g. Newton's Principia and Opticks and journal articles by Einstein Bohm and Pines Aharonov and Bohm

By treating these publications as texts Hughes casts the philosopher of science in the role of critic This premise guides the following six essays which deal with various concerns of philosophy and physics such as laws disunities models and representation computer simulation explanation and the discourse of physics     **Asymptotic Realms of Physics** ,1983

*Physics, Philosophy, and the Scientific Community* K. Gavroglu, John Stachel, Marx W. Wartofsky, 2013-06-29 In three volumes a distinguished group of scholars from a variety of disciplines in the natural and social sciences the humanities and the arts contribute essays in honor of Robert S Cohen on the occasion of his 70th birthday The range of the essays as well as their originality and their critical and historical depth pay tribute to the extraordinary scope of Professor Cohen s intellectual interests as a scientist philosopher and a humanist and also to his engagement in the world of social and political practice The essays presented in *Physics Philosophy and the Scientific Community* Volume I of *Essays in Honor of Robert S Cohen* focus on philosophical and historical issues in contemporary physics on the origins and conceptual foundations of quantum mechanics on the reception and understanding of Bohr s and Einstein s work on the emergence of quantum electrodynamics and on some of the sharp philosophical and scientific issues that arise in current scientific practice e g in superconductivity research In addition several essays deal with critical issues within the philosophy of science both historical and contemporary e g with Cartesian notions of mechanism in the philosophy of biology with the language and logic of science e g with new insights concerning the issue of a physicalistic language in the arguments of Neurath Carnap and Wittgenstein with the notion of elementary logic and with rational and non rational elements in the history of science Two original contributions to the history of mathematics and some studies in the comparative sociology of science round off this outstanding collection

*Physics Avoidance* Mark Wilson, 2017-10-20 Mark Wilson presents a series of explorations of our strategies for understanding the world Physics avoidance refers to the fact that we frequently cannot reason about nature in the straightforward manner we anticipate but must seek alternative policies that allow us to address the questions we want answered in a tractable way Within both science and everyday life we find ourselves relying upon thought processes that reach useful answers in opaque and roundabout manners Conceptual innovators are often puzzled by the techniques they develop when they stumble across reasoning patterns that are easy to implement but difficult to justify But simple techniques frequently rest upon complex foundations a young magician learns how to execute a card guessing trick without understanding how its progressive steps squeeze in on a proper answer As we collectively improve our inferential skills in this gradually evolving manner we often wander into unfamiliar explanatory landscapes in which simple words encode physical information in complex and unanticipated ways Like our juvenile conjurer we fail to recognize the true strategic rationales underlying our achievements and may turn instead to preposterous rationalizations for our policies We have learned how to reach better conclusions in a more fruitful way but we remain baffled by our own successes At its best philosophical reflection illuminates the natural developmental processes that generate these confusions and explicates their

complexities But current thinking within philosophy of science and language works to opposite effect by relying upon simplistic conceptions of cause law of nature possibility and reference that ignore the strategic complexities in which these concepts become entangled within real life usage To avoid these distortions better descriptive tools are wanted The nine new essays within this volume illustrate this need for finer discriminations through a range of revealing cases of both historical and contemporary significance

**Essays in Science** Albert Einstein,1949 **Questioning the Foundations of Physics** Anthony Aguirre,Brendan Foster,Zeeya Merali,2015-01-24 The essays in this book look at way in which the fundamentals of physics might need to be changed in order to make progress towards a unified theory They are based on the prize winning essays submitted to the FQXi essay competition Which of Our Basic Physical Assumptions Are Wrong which drew over 270 entries As Nobel Laureate physicist Philip W Anderson realized the key to understanding nature s reality is not anything magical but the right attitude the focus on asking the right questions the willingness to try and to discard unconventional answers the sensitive ear for phoniness self deception bombast and conventional but unproven assumptions The authors of the eighteen prize winning essays have where necessary adapted their essays for the present volume so as to a incorporate the community feedback generated in the online discussion of the essays b add new material that has come to light since their completion and c to ensure accessibility to a broad audience of readers with a basic grounding in physics The Foundational Questions Institute FQXi catalyzes supports and disseminates research on questions at the foundations of physics and cosmology particularly new frontiers and innovative ideas integral to a deep understanding of reality but unlikely to be supported by conventional funding sources

*Essays in the History and Philosophy of Science* Pierre Duhem,Pierre Maurice Marie Duhem,1996-01-01 Here for the first time in English are the philosophical essays including the first statement of the Duhem Thesis that formed the basis for Aim and Structure of Physical Theory together with new translations of the historiographical essays presenting the equally celebrated Continuity Thesis by Pierre Duhem 1861 1916 a founding figure of the history and philosophy of science Prefaced by an introduction on Duhem s intellectual development and continuing significance here as well are important subsequent essays in which Duhem elaborated key concepts and critiqued such contemporaries as Henri Poincare and Ernst Mach Together these works offer a lively picture of the state of science at the turn of the century while addressing methodological issues that remain at the center of debate today

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*A Survey of Physics: A Collection of Lectures and Essays* Max Planck,2020-01-08 This volume includes new publications of Max Planck s book A Survey of Physics A Collection of Lectures and Essays and his Nobel Prize Address The Origin and Development of the Quantum Theory Planck s book contains eight essays on what he considered to be the most important and urgent issues in physics at the beginning of the 20th century As Planck himself put it the essays should reach a wider circle of readers the book should prove attractive to experts students and all interested in the foundations and philosophy of physics Physicists would undoubtedly be most

interested in the last essay and in Planck's Nobel Prize Address in which Planck gave a detailed account of how he overcame the difficulties on the road that led him to the quantum theory *Einstein's Essays in Science* Albert Einstein, Alan Harris, 2009-01-01 Speeches and essays in accessible everyday language profile influential physicists such as Niels Bohr and Isaac Newton They also explore areas of physics to which the author made major contributions Particles and Waves Peter Achinstein, 1991 This volume brings together six published and two new essays by the noted philosopher of science Peter Achinstein It represents the culmination of his examination of methodological issues that arise in nineteenth century physics He focuses on the philosophical problem of how if at all it is possible to confirm scientific hypotheses that postulate unobservables such as light waves molecules and electrons This question is one that not only was of great interest to nineteenth century physicists and methodologists but continues to occupy philosophers of science up to the present day The essays in this volume deal with this vexing problem as it arose in actual scientific practice in three nineteenth century episodes the debate between particle and wave theorists of light Maxwell's kinetic theory of gases and J J Thomson's discovery of the electron Achinstein shows that the most important issue raised by these three cases concerns the legitimacy of introducing hypotheses that invoke unobservables If science is to be empirical can such hypotheses be employed How if at all is it possible to confirm them Achinstein here assesses the philosophical validity of nineteenth century and modern answers to these questions and presents and defends his own solutions A History of the Ideas of Theoretical Physics S. D'Agostino, 2001-11-30 This book presents a perspective on the history of theoretical physics over the past two hundred years It comprises essays on the history of pre Maxwellian electrodynamics of Maxwell's and Hertz's field theories and of the present century's relativity and quantum physics A common thread across the essays is the search for and the exploration of themes that influenced significant conceptual changes in the great movement of ideas and experiments which heralded the emergence of theoretical physics hereafter TP The fundamental change involved the recognition of the scientific validity of theoretical physics In the second half of the nineteenth century it was not easy for many physicists to understand the nature and scope of theoretical physics and of its adept the theoretical physicist A physicist like Ludwig Boltzmann one of the eminent contributors to the new discipline confessed in 1895 that even the formulation of this concept of a theoretical physicist is not entirely without difficulty 1 Although science had always been divided into theory and experiment it was only in physics that theoretical work developed into a major research and teaching specialty in its own right 2 It is true that theoretical physics was mainly a creation of turn of the century German physics where it received full institutional recognition but it is also undeniable that outstanding physicists in other European countries namely Ampere Fourier and Maxwell also had an important part in its creation **Basic Structures of Reality** Colin McGinn, 2011-12-09 In *Basic Structures of Reality* Colin McGinn deals with questions of metaphysics epistemology and philosophy of mind from the vantage point of physics

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