

On Physics And Philosophy By Bernard Despagnat

On Physics and Philosophy Between Physics and Philosophy Writings on Physics and Philosophy From Physics to Philosophy Physics and Philosophy Physics, Philosophy and Psychoanalysis Philosophical Concepts in Physics Physics and Philosophy Boris Hessen: Physics and Philosophy in the Soviet Union, 1927-1931 The Eleven Pictures of Time Physics, Philosophy, and the Scientific Community Symmetries in Physics The Theoretical Practices of Physics The Quantum World Leon Rosenfeld: Physics, Philosophy, And Politics In The Twentieth Century The Routledge Companion to Philosophy of Physics Reality and Its Order The Philosophy of Physics Carl Friedrich von Weizsäcker: Pioneer of Physics, Philosophy, Religion, Politics and Peace Research Why More Is Different Bernard d'. Espagnat Philipp Frank Wolfgang Pauli Jeremy Butterfield H. Margenau Robert S. Cohen James T. Cushing Paul K. Feyerabend Chris Talbot C K Raju K. Gavroglu Katherine Brading R. I. G. Hughes Bernard d'Espagnat Anja Skaar Jacobsen Taylor & Francis Group Werner Heisenberg Roberto Torretti Ulrich Bartosch Brigitte Falkenburg

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review on physics and philosophy is an accessible mathematics free reflection on the philosophical meaning of the quantum revolution by one of the world s leading authorities on the subject d espagnat presents an objective account of the main guiding principles of contemporary physics in particular quantum mechanics followed by a look at just what consequences these should imply for philosophical thinking

like bohr einstein and heisenberg wolfgang pauli was not only a nobel laureate and one of the creators of modern physics but also an eminent philosopher of modern science this is the first book in english to include all his famous articles on physics and epistemology they were actually translated during pauli s lifetime by r schlapp and are now edited and annotated by pauli s former assistant ch enz pauli writes about the philosophical significance of complementarity about space time and causality symmetry and the exclusion principle but also about therole of the unconscious in modern science his famous article on kepler is included as well as many historical essays on bohr ehrenfest and einstein as well as on the influence of the unconscious on scientific theories the book addresses not only physicists philosophers and historians of science but also the general public

this collection of essays by leading philosophers of physics was first published in 2000 and offers philosophical perspectives on two of the central elements of modern physics quantum theory and relativity the topics examined include the notorious measurement problem of quantum theory and the attempts to solve it by attributing extra values to physical quantities the mysterious non locality of quantum theory the curious properties of spatial localization in relativistic quantum theories and the problem of time in the search for a theory of quantum gravity together the essays represent some of the last decade s research in philosophy of physics particularly interestingly within the philosophy of quantum theory

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 postulat 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

a festschrift dedicated to adolf grünbaum on the occasion of his 60th birthday this volume contains contributions which are original works on scientific and philosophical issues related to his fields of scholarship adolf grünbaum is a leading philosopher of space and time and of the logical foundations of psychoanalytic theory in the english speaking world the philosophers who have contributed are a noteworthy group the collection is complemented by a biographical memoir and a complete bibliography of grünbaum s publications

this book examines a selection of philosophical issues in the context of specific episodes in the development of physical theories and presents scientific advances within their historical and philosophical contexts philosophical considerations have played an essential and ineliminable role in the actual practice of science the book begins with some necessary introduction to the history of ancient and early modern science but emphasizes the two great watersheds of twentieth century physics relativity and quantum mechanics at times the term construction may seem more appropriate than discovery for the way theories have developed and especially in later chapters the discussion focuses on the influence of historical philosophical and even social factors on the form and content of scientific theories

first comprehensive collection of feyerabend s philosophy of quantum physics the hotbed of all key issues of his most debated ideas

this book presents key works of boris hessen outstanding soviet philosopher of science available

here in english for the first time quality translations are accompanied by an editors introduction and annotations boris hessen is known in history of science circles for his social and economic roots of newton s principia presented in london 1931 which inspired new approaches in the west as a philosopher and a physicist he was tasked with developing a marxist approach to science in the 1920s he studied the history of physics to clarify issues such as reductionism and causality as they applied to new developments with the philosophers called the dialecticians his debates with the opposing mechanists on the issue of emergence are still worth studying and largely ignored in the many recent works on this subject taken as a whole the book is a goldmine of insights into both the foundations of physics and soviet history

raju puts forward an entirely new way of looking at the relationship between science and religion time links science to religion and values he gives hard evidence of how political beliefs have affected the content of hard science from the days of newton through the political manipulation of time beliefs

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

symmetry considerations dominate modern fundamental physics both in quantum theory and in relativity this book presents a collection of philosophy on physics papers highlighting the main issues and controversies and providing an entry into the subject for both physicists and philosophers it covers topical issues such as the significance of gauge symmetry particle identity in quantum theory how to make sense of parity violation the role of symmetry breaking the empirical status of symmetry principles and so forth along with more traditional problems in the philosophy of science these include the status of the laws of nature the relationships between mathematics physical theory and the world and the extent to which mathematics dictates physics a valuable reference for students and researchers it will also be of interest to those studying the foundations of physics philosophy of physics and philosophy of science

r i g h u g h e s offers an original approach to the philosophical understanding of physics instead of examining theories he examines the theoretical practices which physicists use he starts with a critical study of the accounts that physicists give of their practices and asks given that these practices are successful what is the nature of their success eight of the nine essays are illustrated by case studies of particular episodes in the history of physics in three essays these case studies are strictly historical the others deal with physics since 1900 three essays deal with standard topics in the philosophical literature laws explanation and realism but here considered from the perspective that an examination of theoretical practice affords the five essays at the centre of the book all deal with different aspects of modelling in physics another examines the discourse of physics in particular the languages in which physical narratives are told and experimental work is described the final essay draws out the implications of the earlier essays for the thesis of scientific realism

in this largely nontechnical book eminent physicists and philosophers address the philosophical impact of recent advances in quantum physics these are shown to shed new light on profound questions about realism determinism causality or locality the participants contribute in the spirit of an open and honest discussion reminiscent of the time when science and philosophy were inseparable after the editors introduction the next chapter reveals the strangeness of quantum mechanics and the subsequent discussions examine our notion of reality the spotlight is then

turned to the topic of decoherence bohm s theory is critically examined in two chapters and the relational interpretation of quantum mechanics is likewise described and discussed the penultimate chapter presents a proposal for resolving the measurement problem and finally the topic of loop quantum gravity is presented by one of its founding fathers carlo roveli the original presentations and discussions on which this volume is based took place under the auspices of the french académie des sciences morales et politiques the book will appeal to everybody interested in knowing how our description of the world is impacted by the results of the most powerful and successful theory that physicists have ever built

l éon rosenfeld 1904 1974 was a remarkable many sided physicist of exceptional erudition he was at the center of modern physics and was well known as niels bohr s close collaborator and spokesman besides he reflected deeply on the history and philosophy of science and its social role from a leftist perspective as both actor and acute spectator of modern physics and as a polyglot cosmopolitan whose life crossed those of many important people in both the east and west as well as by virtue of his close collaboration and friendship with bohr rosenfeld was an important figure in twentieth century physics his biography illuminates the development popularization and reception of quantum physics and its interpretation in addition to the development of the political left the book draws extensively from previously untapped unpublished sources in more than five languages

the routledge companion to philosophy of physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics it contains 54 self contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented the companion s 54 chapters are organized into 12 sections the first seven sections cover all of the major physical theories investigated by philosophers of physics today and the last five explore key themes that unite the study of these theories i classical mechanics ii special relativity iii general relativity iv non relativistic quantum mechanics v quantum field theory vi quantum gravity vii statistical mechanics and thermodynamics viii explanation ix intertheoretic relations x symmetries xi metaphysics xii cosmology the level of the articles has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines an introductory

essay by the editors maps out the field and each section also begins with a short summary that places the individual chapters in context the volume will be indispensable to any serious student or scholar of philosophy of physics

available here for the first time in english reality and its order is a remarkable philosophical text by werner heisenberg the father of quantum mechanics and one of the leading scientists of the 20th century written during the wartime years and initially distributed only to his family and trusted friends the essay describes heisenberg's philosophical view of how we understand the natural world and our role within it in this volume the essay is introduced by the physicist helmut rechenberg and annotated by the science historian ernst peter fischer the content particularly within its historical context will be of great interest to many physicists philosophers and historians of science

this magisterial study of the philosophy of physics both introduces the subject to the nonspecialist and contains many original and important contributions for professionals in the area modern physics was born as a part of philosophy and has retained to this day a properly philosophical concern for the clarity and coherence of ideas any introduction to the philosophy of physics must therefore focus on the conceptual development of physics itself this book pursues that development from galileo and newton through maxwell and boltzmann to einstein and the founders of quantum mechanics there is also discussion of important philosophers of physics in the eighteenth and nineteenth centuries and of twentieth century debates

this book offers a collection of texts by carl friedrich von weizsaecker 1912 2007 a major german universal scientist who was a pioneer in physics philosophy religion politics and peace research he started as an assistant to the physicist werner heisenberg held professorships in theoretical physics strasbourg physics goettingen and philosophy hamburg and was a co director with juergen habermas of a max planck institute for research into living conditions in a world of science and technology in starnberg this unique anthology spans the wide scope of his innovative thinking including his philosophical self reflections on peace nuclear strategy security and defensive defense on nuclear energy on the conditions of freedom on his experience of religion including poetry from his early youth most texts appear in english for the first time and are selected for use in seminars on physics philosophy religion politics and peace research

the physics of condensed matter in contrast to quantum physics or cosmology is not traditionally associated with deep philosophical questions however as science largely thanks to more powerful computers becomes capable of analysing and modelling ever more complex many body systems basic questions of philosophical relevance arise questions about the emergence of structure the nature of cooperative behaviour the implications of the second law the quantum classical transition and many other issues this book is a collection of essays by leading physicists and philosophers each investigates one or more of these issues making use of examples from modern condensed matter research physicists and philosophers alike will find surprising and stimulating ideas in these pages

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