

# The Quantum Dissidents Rebuilding The Foundations

**Quantum Strangeness** George S. Greenstein.2023-09-19 A physicist's efforts to understand the enigma that is quantum mechanics. Quantum mechanics is one of the glories of our age. The theory lies at the heart of modern society. Quantum mechanics is one of our most valuable forecasters—a “great predictor.” It has immeasurably altered our conception of the natural world. Its philosophical implications are earthshaking. But quantum mechanics steadfastly refuses to speak of many things; it deals in probabilities rather than giving explicit descriptions. It never explains. Einstein, one of its creators, considered the theory incomplete. Even now, many years after the creation of quantum mechanics, physicists continue to argue about it. Astrophysicist George Greenstein has been both fascinated and confused by quantum mechanics for his entire career. In this book, he describes, engagingly and accessibly, his efforts to understand the enigma that is quantum mechanics. The fastest route to the insight into the ultimate nature of reality revealed by quantum mechanics, Greenstein writes, is through Bell's Theorem, which concerns reality at the quantum level; and Bell's 1964 discovery drives Greenstein's quest. Greenstein recounts a scientific odyssey that begins with Einstein, continues with Bell, and culminates with today's push to develop an industry of quantum machines. Along the way, he discusses spin, entanglement, experimental metaphysics, and quantum teleportation, often with easy-to-grasp analogies. We have known for decades that the world of the quantum was strange, but, Greenstein says, not until John Bell came along did we know just how strange.

**Quantum Mechanics and Fundamentality** Valia Allori.2022-07-27 This edited collection provides new perspectives on some metaphysical questions arising in quantum mechanics. These questions have been long-standing and are of continued interest to researchers and graduate students working in physics, philosophy of physics, and metaphysics. It features contributions from a diverse set of researchers, ranging from senior scholars to junior academics, working in varied fields, from physics to philosophy of physics and metaphysics. The contributors reflect on issues about fundamentality (is quantum theory fundamental? If so, what is its fundamental ontology?), ontological dependence (how do ordinary objects exist even if they are not fundamental?), realism (what kind of realism is compatible with quantum theory?), indeterminacy (can the world itself exhibit ontological indeterminacy?). The book contains contributions from both physicists (including Nobel Prize winner Gerard 't Hooft), science communicators and philosophers.

**Science Between Myth and History** José G. Perillán.2021-06-15 Scientists regularly employ historical narrative as a rhetorical tool in their communication of science, yet there's been little reflection on its effects within scientific communities and beyond. *Science Between Myth and History* begins to unravel these threads of influence. The stories scientists tell are not just poorly researched scholarly histories, they are myth-histories, a chimeric genre that bridges distinct narrative modes. This study goes beyond polarizing questions about who owns the history of science and establishes a common ground from which to better understand the messy and lasting legacy of the stories scientists tell. It aims to stimulate vigorous conversation among science practitioners, scholars, and communicators. Scientific myth-histories undoubtedly deliver value, coherence, and inspiration to their communities. They are tools used to broker scientific consensus, resolve controversies, and navigate power dynamics. Yet beyond the explicit intent and rationale behind their use, these narratives tend to have great rhetorical power and social agency that bear unintended consequences. This book unpacks the concept of myth-history and explores four case studies in which scientist storytellers use their narratives to teach, build consensus, and inform the broader public. From geo-politically informed quantum interpretation debates to high-stakes gene-editing patent disputes, these case studies illustrate the implications of storytelling in science.

Science Between Myth and History calls on scientists not to eschew writing about their history, but to take more account of the stories they tell and the image of science they project. In this time of eroding common ground, when many find themselves dependent on, yet distrustful of scientific research, this book interrogates the effects of mismatched, dissonant portraits of science.

**Quantum Language and the Migration of Scientific Concepts** Jennifer Burwell.2018-02-16

How highly abstract quantum concepts were represented in language, and how these concepts were later taken up by philosophers, literary critics, and new-age gurus. The principles of quantum physics—and the strange phenomena they describe—are represented most precisely in highly abstract algebraic equations. Why, then, did these mathematically driven concepts compel founders of the field, particularly Erwin Schrödinger, Niels Bohr, and Werner Heisenberg, to spend so much time reflecting on ontological, epistemological, and linguistic concerns? What is it about quantum concepts that appeals to latter-day Eastern mystics, poststructuralist critics, and get-rich-quick schemers? How did their interpretations and misinterpretations of quantum phenomena reveal their own priorities? In this book, Jennifer Burwell examines these questions and considers what quantum phenomena—in the context of the founders' debates over how to describe them—reveal about the relationship between everyday experience, perception, and language. Drawing on linguistic, literary, and philosophical traditions, Burwell illuminates representational and linguistic problems posed by quantum concepts—the fact, for example, that quantum phenomena exist only as probabilities or tendencies toward being and cannot be said to exist in a particular time and place. She traces the emergence of quantum theory as an analytic tool in literary criticism, in particular the use of wave/particle duality in interpretations of gender differences in the novels of Virginia Woolf and critics' connection of Bohr's Principle of Complementarity to poetic form; she examines the “quantum mysticism” of Fritjof Capra and Gary Zukav; and she concludes by analyzing “nuclear discourse” in the context of quantum concepts, arguing that it, too, adopts a language of the unthinkable and the indescribable.

Through Two Doors at Once Anil Ananthaswamy.2018-08-07 One of Smithsonian's Favorite Books of 2018 One of Forbes's 2018 Best Books About Astronomy, Physics and Mathematics One of Kirkus's Best Books of 2018 The intellectual adventure story of the double-slit experiment, showing how a sunbeam split into two paths first challenged our understanding of light and then the nature of reality itself—and continues to almost 200 years later. Many of science's greatest minds have grappled with the simple yet elusive double-slit experiment. Thomas Young devised it in the early 1800s to show that light behaves like a wave, and in doing so opposed Isaac Newton. Nearly a century later, Albert Einstein showed that light comes in quanta, or particles, and the experiment became key to a fierce debate between Einstein and Niels Bohr over the nature of reality. Richard Feynman held that the double slit embodies the central mystery of the quantum world. Decade after decade, hypothesis after hypothesis, scientists have returned to this ingenious experiment to help them answer deeper and deeper questions about the fabric of the universe. How can a single particle behave both like a particle and a wave? Does a particle exist before we look at it, or does the very act of looking create reality? Are there hidden aspects to reality missing from the orthodox view of quantum physics? Is there a place where the quantum world ends and the familiar classical world of our daily lives begins, and if so, can we find it? And if there's no such place, then does the universe split into two each time a particle goes through the double slit? With his extraordinarily gifted eloquence, Anil Ananthaswamy travels around the world and through history, down to the smallest scales of physical reality we have yet fathomed. Through Two Doors at Once is the most fantastic voyage you can take.

Understanding Quantum Raffles Michael Janas, Michael E. Cuffaro, Michel Janssen.2021-12-03 This book offers a thorough technical elaboration and philosophical defense of an objectivist informational interpretation of quantum mechanics according to which its novel content is located in its kinematical framework, that is, in how the theory describes systems independently of the specifics of their dynamics. It will be of interest to researchers and students in the philosophy of physics and in theoretical physics with an interest in the foundations of quantum mechanics.

Additionally, parts of the book may be used as the basis for courses introducing non-physics majors to quantum mechanics, or for self-study by those outside of the university with an interest in quantum mechanics. With a Foreword by Jeffrey Bub. -- "Understanding Quantum Raffles is a wonderful book for both the specialists and those with curious minds. The elegance and the simplicity with which the 'three Mikes' explain some of the deepest aspects of quantum mechanics on the basis of probabilities and correlations are dazzling and delightful. The same elegance and simplicity also make the book ideal for any engaged reader who ever wondered what is so special about quantum mechanics. In our age of new quantum technologies, this is something anyone should read." (Guido Bacciagaluppi, author of *Quantum Theory at the Crossroads*) "This book makes a sustained argument for an informational interpretation of quantum theory, blending an elegant mathematical characterisation of quantum correlations with incisive historical and philosophical analysis. A must-read for those interested in quantum foundations, and also a fertile source of teaching inspiration for quantum theory." (Leah Henderson, Department of Theoretical Philosophy, University of Groningen) "This is one of the most fascinating and accessible presentations of the informational approach to quantum mechanics. What has so far been mostly restricted to the theoretical physics community is here masterfully explained for a broader audience even without a physics background. Scholars, students, and laypeople alike will appreciate the clear, vivid, and yet deep discussion of what raffle tickets and correlation ellipsoes can tell us about the physics and philosophy of the quantum world." (Markus Müller, Institute for Quantum Optics and Quantum Information, Vienna)

**Quantum Sense and Nonsense** Jean Bricmont. 2017-10-27 Permeated by the author's delightful humor, this little book explains, with nearly no mathematics, the main conceptual issues associated with quantum mechanics: The issue of determinism. Does quantum mechanics signify the end of a deterministic world-view? The role of the human subject or of the observer in science. Since Copernicus, science has increasingly tended to dethrone Man from his formerly held special position in the Universe. But quantum mechanics, with its emphasis on the notion of observation, may once more have given a central role to the human subject. The issue of locality. Does quantum mechanics imply that instantaneous actions at a distance exist in Nature? In these pages the author offers a variety of views and answers - bad as well as good - to these questions. The reader will be both entertained and enlightened by Jean Bricmont's clear and incisive arguments.

*A Phenomenological Approach to Quantum Mechanics* French. 2024-02-28 Steven French suggests a radical new approach to the understanding of quantum physics, derived from Husserl's phenomenological philosophy. In 1939 two physicists, Fritz London and Edmund Bauer, published an account of measurement in quantum mechanics. Widely cited, their 'little book' featured centrally in an important debate over the role of consciousness in that process. However, it has been fundamentally misunderstood, both in that debate and beyond. Steven French argues that London, in particular, approached the measurement process from the perspective of Husserlian phenomenology, which he had studied as a student and which he retained an interest in throughout his career. This casts his work with Bauer in an entirely novel light and suggests a radical alternative understanding of quantum mechanics in which consciousness still plays a role but one that is fundamentally different than previously conceived. Most interpretations of the theory approach it on the basis of the so-called 'analytic' tradition in philosophy. However, there has recently been a surge of interest in 'continental' approaches and this book offers a significant new contribution to such developments. Intertwining history and philosophy, it presents London's background in physics and phenomenology, together with an outline of the latter as developed by Husserl, Gurwitsch, Merleau-Ponty and others, as well as a detailed analysis of the work on measurement with Bauer. The book concludes by comparing the London and Bauer understanding with that afforded by Fuchs's QBism, Everett's 'Many Worlds' interpretation and Rovelli's Relational Quantum Mechanics. It is hoped that this exploratory work will open up new avenues of thought with regard to one of our most fundamental physical theories.

**Quanta and Mind** J. Acacio de Barros, Carlos Montemayor. 2019-09-19 This edited volume examines

aspects of the mind/consciousness that are relevant to the interpretations of quantum mechanics. In it, an international group of contributors focus on the possible connections between quantum mechanics and consciousness. They look at how consciousness can help us with quantum mechanics as well as how quantum mechanics can contribute to our understanding of consciousness. For example, what do different interpretations aimed at solving the measurement problem in quantum mechanics tell us about the nature of consciousness, such as von Neumann's interpretation? Each interpretation has, associated to it, a corresponding metaphysical framework that helps us think about possible "models" of consciousness. Alternatively, what does the nature of consciousness tell us about the role of the observer and time reversibility in the measurement process? The book features 20 papers on contemporary approaches to quanta and mind. It brings together the work of scholars from different disciplines with diverse views on the connections between quanta and mind, ranging from those who are supportive of a link between consciousness and quantum physics to those who are very skeptical of such link. Coverage includes such topics as free will in a quantum world, contextuality and causality, mind and matter interaction, quantum panpsychism, the quantum and quantum-like brain, and the role of time in brain-mind dynamics.

**Karl Popper's Science and Philosophy** Zuzana Parusniková, David Merritt. 2021-07-19 Of all philosophers of the 20th century, few built more bridges between academic disciplines than Karl Popper. He contributed to a wide variety of fields in addition to the epistemology and the theory of scientific method for which he is best known. This book illustrates and evaluates the impact, both substantive and methodological, that Popper has had in the natural and mathematical sciences. The topics selected include quantum mechanics, evolutionary biology, cosmology, mathematical logic, statistics, and cognitive science. The approach is multidisciplinary, opening a dialogue across scientific disciplines and between scientists and philosophers.

**Making Sense of Quantum Mechanics** Jean Bricmont. 2016-01-12 This book explains, in simple terms, with a minimum of mathematics, why things can appear to be in two places at the same time, why correlations between simultaneous events occurring far apart cannot be explained by local mechanisms, and why, nevertheless, the quantum theory can be understood in terms of matter in motion. No need to worry, as some people do, whether a cat can be both dead and alive, whether the moon is there when nobody looks at it, or whether quantum systems need an observer to acquire definite properties. The author's inimitable and even humorous style makes the book a pleasure to read while bringing a new clarity to many of the longstanding puzzles of quantum physics.

*The Quantum Handshake* John G. Cramer. 2015-12-23 This book shines bright light into the dim recesses of quantum theory, where the mysteries of entanglement, nonlocality, and wave collapse have motivated some to conjure up multiple universes, and others to adopt a shut up and calculate mentality. After an extensive and accessible introduction to quantum mechanics and its history, the author turns attention to his transactional model. Using a quantum handshake between normal and time-reversed waves, this model provides a clear visual picture explaining the baffling experimental results that flow daily from the quantum physics laboratories of the world. To demonstrate its powerful simplicity, the transactional model is applied to a collection of counter-intuitive experiments and conceptual problems.

*World According To Quantum Mechanics, The: Why The Laws Of Physics Make Perfect Sense After All (Second Edition)* Ulrich Mohrhoff, Manu Jaiswal. 2018-10-12 'The authors should be recognised for their efforts to present a mathematically rigorous introduction to Quantum Mechanics (QM) in a form that has broad appeal; there are not many introductory QM texts that would cover, for example, decoherence. I think many educators would appreciate this book, especially those interested in courses that combine science and philosophy.' Contemporary Physics Apart from providing a lucid introduction to the mathematical formalism and conceptual foundations of quantum mechanics, we explain why the laws of physics have the form that they do. In addition, we present a new and unique look at the quantum world, steering clear of two common errors: the error of the  $\psi$ -ontologists, who reify a calculational tool; and the error of the anti-realists, for whom physical theories are simply devices for expressing regularities among observations. The new edition

of this acclaimed text adds around 200 pages on a variety of topics, such as how the founders sought to make sense of quantum mechanics, Kant's theory of science, QBism, Everettian quantum mechanics, de Broglie-Bohm theory, environmental decoherence, contextuality, nonlocality, and the paradox of subjectivity — the curious fact that the world seems to exist twice, once for us, in our minds, and once by itself, independently of us.

**More Than Nothing** Aaron Sidney Wright.2024-03-11 Across decades and disciplines, *More than Nothing* offers a scoping history of the vacuum as a lens into the development of modern physics.

*Materializing the Foundations of Quantum Mechanics* Climério Paulo da Silva Neto.2023-05-24 This book offers a history of the instrumentation used to materialize the early thought experiments devised in the Einstein-Bohr disputes over the foundations of quantum mechanics. It shows how the second world war and cold war fostered the development of materials, instruments, and systems that made it possible to create, manipulate, and detect single quantum systems, thus creating the material conditions for experiments in foundations of quantum mechanics and for a broad spectrum of experimental inquiries on the structure and properties of matter which underlay the creation of new research fields such as quantum optics, quantum information, and atomic, molecular, and optical physics. Discussing research and development performed in diverse contexts, this book reveals how physicists carried instruments, and the knowledge they embodied, through disciplinary and geographic frontiers to probe entanglement, a most intriguing feature of the quantum world.

**The Quantum Dissidents** Olival Freire Junior.2014-12-26 This book tells the fascinating story of the people and events behind the turbulent changes in attitudes to quantum theory in the second half of the 20th century. The huge success of quantum mechanics as a predictive theory has been accompanied, from the very beginning, by doubts and controversy about its foundations and interpretation. This book looks in detail at how research on foundations evolved after WWII, when it was revived, until the mid 1990s, when most of this research merged into the technological promise of quantum information. It is the story of the quantum dissidents, the scientists who brought this subject from the margins of physics into its mainstream. It is also a history of concepts, experiments, and techniques, and of the relationships between physics and the world at large, touching on themes such as the Cold War, McCarthyism, Zhdanovism, and the unrest of the late 1960s.

*Quantum Theory from First Principles* Giacomo Mauro D'Ariano, Giulio Chiribella, Paolo Perinotti.2017-01-28 Quantum theory is the soul of theoretical physics. It is not just a theory of specific physical systems, but rather a new framework with universal applicability. This book shows how we can reconstruct the theory from six information-theoretical principles, by rebuilding the quantum rules from the bottom up. Step by step, the reader will learn how to master the counterintuitive aspects of the quantum world, and how to efficiently reconstruct quantum information protocols from first principles. Using intuitive graphical notation to represent equations, and with shorter and more efficient derivations, the theory can be understood and assimilated with exceptional ease. Offering a radically new perspective on the field, the book contains an efficient course of quantum theory and quantum information for undergraduates. The book is aimed at researchers, professionals, and students in physics, computer science and philosophy, as well as the curious outsider seeking a deeper understanding of the theory.

**From Quantum to Classical** Claus Kiefer.2022-03-14 Quantum theory is at the foundation of the physical description of our world. One of the people who contributed significantly to our conceptual understanding of this theory was Heinz-Dieter Zeh (1932-2018). He was the pioneer of the process of decoherence, through which the classical appearance of our world can be understood. This volume presents a collection of essays dedicated to his memory, written by distinguished scientists and scholars. They cover all aspects of the interpretation of quantum theory in general and the quantum-to-classical transition in particular. This volume provides illuminating reading to anyone seeking a deep understanding of quantum theory and its relevance to the foundations of physics.

David Bohm Olival Freire Junior.2019-09-05 This authoritative biography addresses the life and work of the quantum physicist David Bohm. Although quantum physics is considered the soundest physical theory, its strange and paradoxical features have challenged - and continue to challenge -

even the brightest thinkers. David Bohm dedicated his entire life to enhancing our understanding of quantum mysteries, in particular quantum nonlocality. His work took place at the height of the cultural/political upheaval in the 1950's, which led him to become the most notable American scientist to seek exile in the last century. The story of his life is as fascinating as his ideas on the quantum world are appealing.

**Uncertainty and Its Discontents** Peter J. Katzenstein.2022-07-07 Worldviews are the unexamined, pre-theoretical foundations of the approaches with which we understand and navigate the world, and this volume provides the first major study of worldviews in international relations. Advances in twentieth century physics and cosmology questioning anthropocentrism have fostered the articulation of alternative worldviews, rivalling conventional Newtonian humanism and its assumption that the world is constituted by controllable risks. This matters for accepting uncertainties that are an indelible part of many spheres of life including public health, the environment, finance, security and politics - uncertainties that are concealed by the conventional presumption that the world is governed only by risk. The confluence of risk and uncertainty requires an awareness of alternative worldviews, alerts us to possible intersections between humanist Newtonianism and hyper-humanist Post-Newtonianism, and reminds us of the relevance of science, religion and moral values in world politics. This title is also available as Open Access on Cambridge Core.

*Phenomenological Approaches to Physics* Harald A. Wiltsche,Philipp Berghofer.2020-06-23 This book offers fresh perspective on the role of phenomenology in the philosophy of physics which opens new avenues for discussion among physicists, standard philosophers of physics and philosophers with phenomenological leanings. Much has been written on the interrelations between philosophy and physics in the late 19th and early 20th century, and on the emergence of philosophy of science as an autonomous philosophical sub-discipline. This book is about the under-explored role of phenomenology in the development and the philosophical interpretation of 20th century physics. Part 1 examines questions about the origins and value of phenomenological approaches to physics. Does the work of classical phenomenologists such as Husserl, Merleau-Ponty or Heidegger contain elements of systematic value to both the practice and our philosophical understanding of physics? How did classical phenomenology influence "standard" philosophy of science in the Anglo-American and other traditions? Part 2 probes questions on the role of phenomenology in the philosophies of physics and science: - Can phenomenology help to solve "Wigner's puzzle", the problem of the unreasonable effectiveness of mathematics in describing, explaining and predicting empirical phenomena? - Does phenomenology allow better understanding of the principle of gauge invariance at the core of the standard model of contemporary particle physics? - Does the phenomenological notion of "Lifeworld" stand in opposition to the "scientific metaphysics" movement, or is there potential for dialogue? Part 3 examines the measurement problem. Is the solution outlined by Fritz London and Edmond Bauer merely a re-statement of von Neumann's view, or should it be regarded as a distinctively phenomenological take on the measurement problem? Is phenomenology a serious contender in continuing discussions of foundational questions of quantum mechanics? Can other interpretational frameworks such as quantum Bayesianism benefit from implementing phenomenological notions such as constitution or horizontal intentionality?

*Quantum Arrangements* Gregg Jaeger,David Simon,Alexander V. Sergienko,Daniel Greenberger,Anton Zeilinger.2021-10-09 This book presents a collection of novel contributions and reviews by renowned researchers in the foundations of quantum physics, quantum optics, and neutron physics. It is published in honor of Michael Horne, whose exceptionally clear and groundbreaking work in the foundations of quantum mechanics and interferometry, both of photons and of neutrons, has provided penetrating insight into the implications of modern physics for our understanding of the physical world. He is perhaps best known for the Clauser-Horne-Shimony-Holt (CHSH) inequality. This collection includes an oral history of Michael Horne's contributions to the foundations of physics and his connections to other eminent figures in the history of the subject, among them Clifford Shull and Abner Shimony.

The Structural Foundations of Quantum Gravity Dean Rickles, Steven French, Juha T. Saatsi. 2006-11-16 What is spacetime? General relativity and quantum field theory answer this question in different ways. This collection of essays looks at the problem of uniting these two fundamental theories of our world, focusing on the nature of space and time within this quantum framework.

**The Oxford Handbook of the History of Quantum Interpretations** Guido Bacciagaluppi, Olivier Darrigol, Olival Freire Jr. 2022 Crucial to most research in physics, as well as leading to the development of inventions such as the transistor and the laser, quantum mechanics approaches its centenary with an impressive record. However, the field has also long been the subject of ongoing debates about the foundations and interpretation of the theory, referred to as the quantum controversy. This Oxford Handbook offers a historical overview of the contrasts which have been at the heart of quantum physics for the last 100 years. Drawing on the wide-ranging expertise of several contributors working across physics, history, and philosophy, the handbook outlines the main theories and interpretations of quantum physics. It goes on to tackle the key controversies surrounding the field, touching on issues such as determinism, realism, locality, classicality, information, measurements, mathematical foundations, and the links between quantum theory and gravity. This engaging introduction is an essential guide for all those interested in the history of scientific controversies and history of quantum physics. It also provides a fascinating examination of the potential of quantum physics to influence new discoveries and advances in fields such as quantum information and computing.

**Modern Quantum Theory** Reinhold Bertlmann, Nicolai Friis. 2023 Aimed at university students, as well as academic and industry researchers, this textbook is an introduction to quantum theory, covering the development of the field from the early stages of quantum mechanics to modern quantum information, with a focus on entanglement theory.

*Niels Bohr and the Philosophy of Physics* Jan Faye, Henry Folse. 2017-10-19 *Niels Bohr and Philosophy of Physics: Twenty-First Century Perspectives* examines the philosophical views, influences and legacy of the Nobel Prize physicist and philosophical spokesman of the quantum revolution, Niels Bohr. The sixteen contributions in this collection by some of the best contemporary philosophers and physicists writing on Bohr's philosophy today all carefully distinguish his subtle and unique interpretation of quantum mechanics from views often imputed to him under the banner of the "Copenhagen Interpretation." With respect to philosophical influences on Bohr's outlook, the contributors analyse prominent similarities between his viewpoint and Kantian ways of thinking, the views of the Danish philosopher Harald Høffding, and themes characteristic of American pragmatism. In recognizing the importance of Bohr's epistemological naturalism they examine his defence of the indispensability of classical concepts from a variety of different perspectives. This collection shows us that Bohr's interpretation of quantum mechanics, now nearly a century old, still has the power to shed light on a variety of issues that have arisen only since his lifetime, as well as decoherence theory and other non-collapse interpretations. Balancing historical themes with contemporary discussions, *Niels Bohr and the Philosophy of Physics* establishes Bohr's on-going contribution to the philosophy of physics and examines his place in the history of philosophy.

**Mario Bunge: A Centenary Festschrift** Michael R. Matthews. 2019-07-17 This volume has 41 chapters written to honor the 100th birthday of Mario Bunge. It celebrates the work of this influential Argentine/Canadian physicist and philosopher. Contributions show the value of Bunge's science-informed philosophy and his systematic approach to philosophical problems. The chapters explore the exceptionally wide spectrum of Bunge's contributions to: metaphysics, methodology and philosophy of science, philosophy of mathematics, philosophy of physics, philosophy of psychology, philosophy of social science, philosophy of biology, philosophy of technology, moral philosophy, social and political philosophy, medical philosophy, and education. The contributors include scholars from 16 countries. Bunge combines ontological realism with epistemological fallibilism. He believes that science provides the best and most warranted knowledge of the natural and social world, and that such knowledge is the only sound basis for moral decision making and social and political

reform. Bunge argues for the unity of knowledge. In his eyes, science and philosophy constitute a fruitful and necessary partnership. Readers will discover the wisdom of this approach and will gain insight into the utility of cross-disciplinary scholarship. This anthology will appeal to researchers, students, and teachers in philosophy of science, social science, and liberal education programmes. 1. Introduction Section I. An Academic Vocation (3 chapters) Section II. Philosophy (12 chapters) Section III. Physics and Philosophy of Physics (4 chapters) Section IV. Cognitive Science and Philosophy of Mind (2 chapters) Section V. Sociology and Social Theory (4 chapters) Section VI. Ethics and Political Philosophy (3 chapters) Section VII. Biology and Philosophy of Biology (3 chapters) Section VIII. Mathematics (3 chapters) Section IX. Education (2 chapters) Section X. Varia (3 chapters) Section XI. Bibliography

**Do We Really Understand Quantum Mechanics?** Franck Laloë.2019-02-14 Quantum mechanics is a ... theory that has impacted ... many areas of physics, from pure theory to applications. However, it is difficult to interpret, and philosophical contradictions and counter-intuitive results are apparent at a fundamental level. In this book, Laloë presents our current understanding of the theory--

**Spooky Action at a Distance** George Musser.2015-11-03 Long-listed for the 2016 PEN/E. O. Wilson Literary Science Writing Award "An important book that provides insight into key new developments in our understanding of the nature of space, time and the universe. It will repay careful study." —John Gribbin, *The Wall Street Journal* "An endlessly surprising foray into the current mother of physics' many knotty mysteries, the solving of which may unveil the weirdness of quantum particles, black holes, and the essential unity of nature." —Kirkus Reviews (starred review) What is space? It isn't a question that most of us normally ask. Space is the venue of physics; it's where things exist, where they move and take shape. Yet over the past few decades, physicists have discovered a phenomenon that operates outside the confines of space and time: nonlocality—the ability of two particles to act in harmony no matter how far apart they may be. It appears to be almost magical. Einstein grappled with this oddity and couldn't come to terms with it, describing it as spooky action at a distance. More recently, the mystery has deepened as other forms of nonlocality have been uncovered. This strange occurrence, which has direct connections to black holes, particle collisions, and even the workings of gravity, holds the potential to undermine our most basic understandings of physical reality. If space isn't what we thought it was, then what is it? In *Spooky Action at a Distance*, George Musser sets out to answer that question, offering a provocative exploration of nonlocality and a celebration of the scientists who are trying to explain it. Musser guides us on an epic journey into the lives of experimental physicists observing particles acting in tandem, astronomers finding galaxies that look statistically identical, and cosmologists hoping to unravel the paradoxes surrounding the big bang. He traces the often contentious debates over nonlocality through major discoveries and disruptions of the twentieth century and shows how scientists faced with the same undisputed experimental evidence develop wildly different explanations for that evidence. Their conclusions challenge our understanding of not only space and time but also the origins of the universe—and they suggest a new grand unified theory of physics. Delightfully readable, *Spooky Action at a Distance* is a mind-bending voyage to the frontiers of modern physics that will change the way we think about reality.

[The Quantum Theory of Fields: Foundations](#) Steven Weinberg.2000

*A Phenomenological Revision of E. E. Harris's Dialectical Holism* James Schofield.2021-10-12 The purpose of this work is to critically assess Errol E. Harris's process philosophy in the face of contemporary research in the special sciences. Harris devoted his life to grappling with the big questions concerning the relationships between nature, mind, and knowledge. His 70-plus year career was distinguished, his texts on the history of philosophy, philosophy of science, political philosophy, philosophy of religion, and consciousness were widely published, and yet his metaphysics has until now remained excluded from mainstream discussions. This book's contention is that Harris's work reveals as yet unnoticed connections between theories in numerous scientific disciplines ranging from psychology to cosmology and that an examination of certain theories within these disciplines may serve to strengthen his original arguments. This work maintains that the



resulting metaphysics frames a transdisciplinary paradigm shift and provides a viable solution to the hard problem of consciousness.

How Knowledge Moves John Krige.2019-01-25 Knowledge matters, and states have a stake in managing its movement to protect a variety of local and national interests. The view that knowledge circulates by itself in a flat world, unimpeded by national boundaries, is a myth. The transnational movement of knowledge is a social accomplishment, requiring negotiation, accommodation, and adaptation to the specificities of local contexts. This volume of essays by historians of science and technology breaks the national framework in which histories are often written. Instead, *How Knowledge Moves* takes knowledge as its central object, with the goal of unraveling the relationships among people, ideas, and things that arise when they cross national borders. This specialized knowledge is located at multiple sites and moves across borders via a dazzling array of channels, embedded in heads and hands, in artifacts, and in texts. In the United States, it shapes policies for visas, export controls, and nuclear weapons proliferation; in Algeria, it enhances the production of oranges by colonial settlers; in Vietnam, it facilitates the exploitation of a river delta. In India it transforms modes of agricultural production. It implants American values in Latin America. By concentrating on the conditions that allow for knowledge movement, these essays explore travel and exchange in face-to-face encounters and show how border-crossings mobilize extensive bureaucratic technologies.

David Bohm's Critique of Modern Physics Chris Talbot.2020-07-30 In the letters contained in this book, David Bohm argues that the dominant formal, mathematical approach in physics is seriously flawed. In the 1950s and 60s, Bohm took a direction unheard of for a professor of theoretical physics: while still researching in physics, working among others with Yakir Aharonov and later Jeffrey Bub, he also spent time studying "metaphysics"—such as Hegel's dialectics and Indian panpsychism. 50 years on, questions raised about the direction and philosophical assumptions of theoretical physics show that Bohm's arguments still have contemporary relevance.

Beyond Peaceful Coexistence Licata Ignazio.2016-03-30 'It may be that a real synthesis of quantum and relativity theories requires not just technical developments but radical conceptual renewal.' J S Bell *Beyond Peaceful Coexistence: The Emergence of Space, Time and Quantum* brings together leading academics in mathematics and physics to address going beyond the 'peaceful coexistence' of space-time descriptions (local and continuous ones) and quantum events (discrete and non-commutative ones). Formidable challenges waiting beyond the Standard Model require a new semantic consistency within the theories in order to build new ways of understanding, working and relating to them. The original A. Shimony meaning of the peaceful coexistence (the collapse postulate and non-locality) appear to be just the tip of the iceberg in relation to more serious fundamental issues across physics as a whole. Chapters in this book present perspectives on emergent, discrete, geometrodynamical and topological approaches, as well as a new interpretative spectrum of quantum theories after Copenhagen, discrete time theories, time-less approaches and 'super-fluid' pictures of space-time. As well as stimulating further research among established theoretical physicists, the book can also be used in courses on the philosophy and mathematics of theoretical physics.

**Quantum Legacies** David Kaiser.2022-06-16 Physicists have grappled with quantum theory for over a century. They have learned to wring precise answers from the theory's governing equations, and no experiment to date has found compelling evidence to contradict it. Even so, the conceptual apparatus remains stubbornly, famously bizarre. Physicists have tackled these conceptual uncertainties while navigating still larger ones: the rise of fascism, cataclysmic world wars and a new nuclear age, an unsteady Cold War stand-off and its unexpected end. *Quantum Legacies* introduces readers to physics' still-unfolding quest by treating iconic moments of discovery and debate among well-known figures like Albert Einstein, Erwin Schrödinger, and Stephen Hawking, and many others whose contributions have indelibly shaped our understanding of nature--

**David Bohm: Causality and Chance, Letters to Three Women** Chris Talbot.2017-04-17 The letters transcribed in this book were written by physicist David Bohm to three close female

acquaintances in the period 1950 to 1956. They provide a background to his causal interpretation of quantum mechanics and the Marxist philosophy that inspired his scientific work in quantum theory, probability and statistical mechanics. In his letters, Bohm reveals the ideas that led to his groundbreaking book *Causality and Chance in Modern Physics*. The political arguments as well as the acute personal problems contained in these letters help to give a rounded, human picture of this leading scientist and twentieth century thinker.

*What Is Real?* Adam Becker. 2018-03-20 A thorough, illuminating exploration of the most consequential controversy raging in modern science. --New York Times Book Review An Editor's Choice, New York Times Book Review Longlisted for PEN/E.O. Wilson Prize for Literary Science Writing Longlisted for Goodreads Choice Award Every physicist agrees quantum mechanics is among humanity's finest scientific achievements. But ask what it means, and the result will be a brawl. For a century, most physicists have followed Niels Bohr's solipsistic and poorly reasoned Copenhagen interpretation. Indeed, questioning it has long meant professional ruin, yet some daring physicists, such as John Bell, David Bohm, and Hugh Everett, persisted in seeking the true meaning of quantum mechanics. *What Is Real?* is the gripping story of this battle of ideas and the courageous scientists who dared to stand up for truth. An excellent, accessible account. --Wall Street Journal Splendid. . . . Deeply detailed research, accompanied by charming anecdotes about the scientists. --Washington Post

**The Milan Institute of Physics** Leonardo Gariboldi, Luisa Bonolis, Antonella Testa. 2022-06-09 This book offers the first comprehensive and authoritative text on the history of physics in Italy's industrial and financial capital, from the foundation of the University of Milan's Institute of Physics in 1924 up to the early 1960s, when it moved to its current location. It includes biographies and a historical-scientific analysis of the main research topics investigated by world-renowned physicists such as Aldo Pontremoli, Giovanni Polvani, Giovanni Gentile Jr., Beppo Occhialini, and Piero Caldirola, highlighting their contributions to the development of Italian physics in a national and international context. Further, the book provides a historical perspective on the interplay of physics and politics in Italy during both the Fascist regime and the postwar reconstruction period, which led to the creation of the CISE (Centro Informazioni Studi Esperienze, a research center for applied nuclear physics, funded by private industries) in 1946, and of the Milan division of the National Institute of Nuclear Physics (INFN) in 1951.

**Foundations of Quantum Theory** Alfred Landé. 1955

**Constructing Quantum Mechanics Volume 2** Michel Janssen, Anthony Duncan. 2023-08-15 This is the second of two volumes on the genesis of quantum mechanics in the first quarter of the 20th century. It covers the period 1923-1927. After covering some of the difficulties the old quantum theory had run into by the early 1920s as well as the discovery of the exclusion principle and electron spin, it traces the emergence of two forms of the new quantum mechanics, matrix mechanics and wave mechanics, in the years 1923-27. It then shows how the new theory took care of some of the failures of the old theory and put its successes on a more solid basis. Finally, it shows how in 1927 the two forms of the new theory were unified, first through statistical transformation theory, then through the Hilbert space formalism. This volume provides a detailed analysis of the classic papers by Heisenberg, Born, Jordan, Dirac, De Broglie, Einstein, Schrödinger, von Neumann and other authors. Drawing on the correspondence of these and other physicists, their later reminiscences and the extensive secondary literature on the "quantum revolution", this volume places these papers in the context of the discussions out of which modern quantum mechanics emerged. It argues that the genesis of modern quantum mechanics can be seen as the construction of an arch on a scaffold provided by the old quantum theory, discarded once the arch could support itself.

**The Quantum Dissidents Rebuilding The Foundations** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Quantum Dissidents Rebuilding The Foundations**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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