

MATHEMATICAL  
FOUNDATIONS  
*of* QUANTUM  
MECHANICS

*New Edition*

JOHN  
VON NEUMANN

*Edited by* NICHOLAS A. WHEELER

# John Von Neumann And The Foundations Of Quantum Physics

**Marco Cascella**



## **John Von Neumann And The Foundations Of Quantum Physics:**

*John von Neumann and the Foundations of Quantum Physics* Miklós Rédei, Michael Stöltzner, 2013-03-09 John von Neumann 1903 1957 was undoubtedly one of the scientific geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von Neumann was also actively involved in politics and science management and he had a major impact on US government decisions during and especially after the Second World War There exist several popular books on his personality and various collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von Neumann's theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century The present volume embraces both historical and systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann's thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of the Yearbook contains papers emerging from the Institute's annual lecture series and reviews of important publications of philosophy of science and its history

**Mathematical Foundations of Quantum Mechanics** John von Neumann, 1955 A revolutionary book that for the first time provided a rigorous mathematical framework for quantum mechanics Google books *Mathematical Foundations of Quantum Mechanics* John von Neumann, 2018-02-27 Quantum mechanics was still in its infancy in 1932 when the young John von Neumann who would go on to become one of the greatest mathematicians of the twentieth century published Mathematical Foundations of Quantum Mechanics a revolutionary book that for the first time provided a rigorous mathematical framework for the new science Robert Beyer's 1955 English translation which von Neumann reviewed and approved is cited more frequently today than ever before But its many treasures and insights were too often obscured by the limitations of the way the text and equations were set on the page In this new edition of this classic work mathematical physicist Nicholas Wheeler has completely reset the book in TeX making the text and equations far easier to read He has also corrected a handful of typographic errors revised some sentences for clarity and readability provided an index for the first time and added prefatory remarks drawn from the writings of L on Van Hove and Freeman Dyson The result brings new life to an essential work in theoretical physics and

mathematics      *Compendium of Quantum Physics* Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists philosophers and historians this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment It covers technical and interpretational aspects alike and includes both traditional and new concepts making it an indispensable resource for concise up to date information about the many facets of quantum physics      *Foundations of Quantum Mechanics* Roderich Tumulka, 2022-11-22 This book introduces and critically appraises the main proposals for how to understand quantum mechanics namely the Copenhagen interpretation spontaneous collapse Bohmian mechanics many worlds and others The author makes clear what are the crucial problems such as the measurement problem related to the foundations of quantum mechanics and explains the key arguments like the Einstein Podolsky Rosen argument and Bell's proof of nonlocality He discusses and clarifies numerous topics that have puzzled the founding fathers of quantum mechanics and present day students alike such as the possibility of hidden variables the collapse of the wave function time of arrival measurements explanations of the symmetrization postulate for identical particles or the nature of spin Several chapters are devoted to extending the different approaches to relativistic space time and quantum field theory The book is self contained and is intended for graduate students and researchers who want to step into the fundamental aspects of quantum physics Given its clarity it is accessible also to advanced undergraduates and contains many exercises and examples to master the subject      *A Phenomenological Approach to Quantum Mechanics* Steven French, 2024-02-22 Steven French suggests a radical new approach to the understanding of quantum physics derived from Husserl's phenomenological philosophy In this approach consciousness plays a fundamental role that is very different from what has previously been supposed      **The Philosophy of Science: N-Z, Index** Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest      **The Philosophy of Science** Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest      *Epistemological and Experimental Perspectives on Quantum Physics* Daniel Greenberger, W.L. Reiter, Anton Zeilinger, 2013-04-17 From the very beginning it was realised that quantum physics involves radically new interpretative and epistemological consequences While hitherto there has been no satisfactory philosophical analysis of these consequences recent years have witnessed the accomplishment of many experiments to test the foundations of quantum

physics opening up vistas to a completely novel technology quantum technology The contributions in the present volume review the interpretative situation analyze recent fundamental experiments and discuss the implications of possible future technological applications Readership Analytic philosophers logical empiricists scientists especially physicists historians of logic mathematics and physics philosophers of science and advanced students and researchers in these fields Can be used for seminars on theoretical and experimental physics and philosophy of science and as supplementary reading at advanced undergraduate and graduate levels

Foundations of Quantum Theory Klaas Landsman, 2017-05-11 This book studies the foundations of quantum theory through its relationship to classical physics This idea goes back to the Copenhagen Interpretation in the original version due to Bohr and Heisenberg which the author relates to the mathematical formalism of operator algebras originally created by von Neumann The book therefore includes comprehensive appendices on functional analysis and C algebras as well as a briefer one on logic category theory and topos theory Matters of foundational as well as mathematical interest that are covered in detail include symmetry and its spontaneous breaking the measurement problem the Kochen Specker Free Will and Bell Theorems the Kadison Singer conjecture quantization indistinguishable particles the quantum theory of large systems and quantum logic the latter in connection with the topos approach to quantum theory This book is Open Access under a CC BY licence

The Oxford Handbook of the History of Quantum Interpretations Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, 2022 This Oxford Handbook provides a rigorous interdisciplinary review of the history of interpretations of quantum physics presenting the key controversies within the field as well as outlining its successes and its extraordinary potential across various scientific fields

**Weird Scientists □ the Creators of Quantum Physics** Jeffrey Strickland, 2011-09-04 Weird Scientists is a sequel to Men of Manhattan As I wrote the latter about the nuclear physicists who brought in the era of nuclear power quantum mechanics or quantum physics was unavoidable Many of the contributors to the science of splitting the atom were also contributors to quantum mechanics Atomic physics particle physics quantum physics and even relativity are all interrelated This book is about the men and women who established the science that shook the foundations of classical physics removed determinism from measurement and created alternative worlds of reality The book introduces fundamental concepts of quantum mechanics roughly in the order they were discovered as a launching point for describing the scientist and the work that brought forth the concepts

*The Logico-Algebraic Approach to Quantum Mechanics* C.A. Hooker, 2012-12-06 The twentieth century has witnessed a striking transformation in the understanding of the theories of mathematical physics There has emerged clearly the idea that physical theories are significantly characterized by their abstract mathematical structure This is in opposition to the traditional opinion that one should look to the specific applications of a theory in order to understand it One might with reason now espouse the view that to understand the deeper character of a theory one must know its abstract structure and understand the significance of that structure while to understand how a theory might be modified in light of its experimental

inadequacies one must be intimately acquainted with how it is applied Quantum theory itself has gone through a development this century which illustrates strikingly the shifting perspective From a collection of intuitive physical maneuvers under Bohr through a formative stage in which the mathematical framework was bifurcated between Schrödinger and Heisenberg to an elegant culmination in von Neumann's Hilbert space formulation the elementary theory moved flanked even at the later stage by the ill understood formalisms for the relativistic version and for the field theoretic alternative after that we have a gradual but constant elaboration of all these quantal theories as abstract mathematical structures their point of departure being von Neumann's formalism until at the present time theoretical work is heavily preoccupied with the manipulation of purely abstract structures

The Probability Interpretation and the Statistical Transformation Theory, the Physical Interpretation, and the Empirical and Mathematical Foundations of Quantum Mechanics 1926-1932 Jagdish Mehra, Helmut Reichenberg, 2000-08-25 Quantum Theory together with the principles of special and general relativity constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it The Historical Development of Quantum Theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning Drawing upon such materials as the resources of the Archives for the History of Quantum Physics the Niels Bohr Archives and the archives and scientific correspondence of the principal quantum physicists as well as Jagdish Mehra's personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context This multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process The Historical Development of Quantum Theory is science history and biography all wrapped in the story of a great human enterprise Its lessons will be an aid to those working in the sciences and humanities alike

Ernst Mach's Vienna 1895-1930 J.T. Blackmore, R. Itagaki, S. Tanaka, 2001-08-31 This work gives insight into the philosophical influence Ernst Mach 1838-1916 has had on leading Viennese physicists and philosophers of his time by relating the ideas and works of these men to Mach's phenomenalism The relation between Mach and the University of Vienna Philosophical Society is also examined In the process little known documents and correspondence from Mach are presented Additionally this extensive research helps clarify the conflict between Mach and most physicists over the reality of atoms and places the claim of Mach and his followers to represent science and philosophy of science against the claim of Planck and Einstein that phenomenalism and positivism were not even compatible with science Audience This is an ideal book for both graduate students and scholars in the field of history and philosophy of science

**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 *Logical and Epistemological Studies in Contemporary Physics* Robert S. Cohen, Marx W. Wartofsky, 2012-12-06 Proceedings of the Boston Colloquium for the Philosophy of Science 1969-1972 Superstrings, P-branes and M-theory, *The Principle of the Common Cause* Gábor Hofer-Szabó, Miklós Rédei, László E. Szabó, 2013-05-16 The common cause principle says that every correlation is either due to a direct causal effect linking the correlated entities or is brought about by a third factor a so called common cause The principle is of central importance in the philosophy of science especially in causal explanation causal modeling and in the foundations of quantum physics Written for philosophers of science physicists and statisticians this book contributes to the debate over the validity of the common cause principle by proving results that bring to the surface the nature of explanation by common causes It provides a technical and mathematically rigorous examination of the notion of common cause providing an analysis not only in terms of classical probability measure spaces which is typical in the available literature but in quantum probability theory as well The authors provide numerous open problems to further the debate and encourage future research in this field Probabilities, Laws, and Structures Dennis Dieks, Wenceslao J. Gonzalez, Stephan Hartmann, Michael Stöltzner, Marcel Weber, 2012-02-02 This volume the third in this Springer series contains selected papers from the four workshops organized by the ESF Research Networking Programme The Philosophy of Science in a European Perspective PSE in 2010 Pluralism in the Foundations of Statistics Points of Contact between the Philosophy of Physics and the Philosophy of Biology The Debate on Mathematical Modeling in the Social Sciences Historical Debates about Logic Probability and Statistics The volume is accordingly divided in four sections each of them containing papers coming from the workshop focussing on one of these themes While the programme's core topic for the year 2010 was probability and statistics the organizers of the workshops embraced the opportunity of building bridges to more or less closely connected issues in general philosophy of science philosophy of physics and philosophy of the special sciences However papers that analyze the concept of probability for various philosophical purposes are clearly a major theme in this volume as it was in the previous volumes of the same series This reflects the impressive productivity of probabilistic approaches in the philosophy of science which form an important part of what has become known as formal epistemology although of course there are non probabilistic approaches in formal epistemology as well It is probably fair to say that Europe has been particularly strong in this area of philosophy in recent years

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## **Table of Contents John Von Neumann And The Foundations Of Quantum Physics**

1. Understanding the eBook John Von Neumann And The Foundations Of Quantum Physics
  - The Rise of Digital Reading John Von Neumann And The Foundations Of Quantum Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying John Von Neumann And The Foundations Of Quantum Physics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an John Von Neumann And The Foundations Of Quantum Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from John Von Neumann And The Foundations Of Quantum Physics
  - Personalized Recommendations
  - John Von Neumann And The Foundations Of Quantum Physics User Reviews and Ratings
  - John Von Neumann And The Foundations Of Quantum Physics and Bestseller Lists
5. Accessing John Von Neumann And The Foundations Of Quantum Physics Free and Paid eBooks
  - John Von Neumann And The Foundations Of Quantum Physics Public Domain eBooks
  - John Von Neumann And The Foundations Of Quantum Physics eBook Subscription Services
  - John Von Neumann And The Foundations Of Quantum Physics Budget-Friendly Options
6. Navigating John Von Neumann And The Foundations Of Quantum Physics eBook Formats



- ePub, PDF, MOBI, and More
- John Von Neumann And The Foundations Of Quantum Physics Compatibility with Devices
- John Von Neumann And The Foundations Of Quantum Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of John Von Neumann And The Foundations Of Quantum Physics
  - Highlighting and Note-Taking John Von Neumann And The Foundations Of Quantum Physics
  - Interactive Elements John Von Neumann And The Foundations Of Quantum Physics
- 8. Staying Engaged with John Von Neumann And The Foundations Of Quantum Physics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers John Von Neumann And The Foundations Of Quantum Physics
- 9. Balancing eBooks and Physical Books John Von Neumann And The Foundations Of Quantum Physics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection John Von Neumann And The Foundations Of Quantum Physics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine John Von Neumann And The Foundations Of Quantum Physics
  - Setting Reading Goals John Von Neumann And The Foundations Of Quantum Physics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of John Von Neumann And The Foundations Of Quantum Physics
  - Fact-Checking eBook Content of John Von Neumann And The Foundations Of Quantum Physics
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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