

# **John von Neumann and the Foundations of Quantum Physics**

**edited by  
Miklós Rédei and Michael Stöltzner**



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# John Von Neumann And The Foundations Of Quantum Physics

**S Nieto**



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

**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 **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such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann's thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of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 **John Von Neumann and the Foundations of Quantum Physics** Dr Miklos Redei, Michael Stoltzner, 2014-01-15 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, 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

**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

[John S. Bell on the Foundations of Quantum Mechanics](#) J. S. Bell, Mary Bell, Kurt Gottfried, Martinus Veltman, 2001 This book is the most complete collection of John S Bell s research papers review articles and lecture notes on the foundations of quantum mechanics Some of this material has hitherto been difficult to access The book also appears in a paperback edition aimed at students and young researchers This volume will be very useful

to researchers in the foundations and applications of quantum mechanics

**The Philosophy of Science** Sahotra Sarker, 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

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**Studies in the Foundations of Quantum Mechanics** Patrick Suppes, 1980

**Foundations of Quantum Mechanics** Società italiana di fisica, 1971 The subject of our discussions E Wigner Foundations of quantum mechanics J M Jauch Limitations on measurement H Stein and A Shimony Optimal measuring apparatus M M Yanase Mesure et non s parabilit B D Espagnat Macroscopic physics and the problem of measurement in quantum mechanics G M Proserpio Measurability problems in the quantum theory of fields J Kalckar Introduction to the hidden variable question J S Bell Experimental test of local hidden variable theories A Shimony Experimental test of quantum predictions for widely separated photons L Kasday The many universes interpretation of quantum mechanics B S De Witt On the irreversibility of time and observation in quantum theory H D Zen Observables in general quantum theory C Piron The measuring process and an axiomatic foundation of quantum mechanics G Ludwig On a new development in the description of correlations between two quantum systems F Herbut and M Vujicic Superselection rules and internal symmetries A Frenkel Measuring processes and additive conservation laws K E Hellwig L interpretation de la m canique ondulatoire par la th orie de la double solution L de Broglie Une formulation causale de la th orie quantique de la mesure J Andrade e Silva Realism and the wave function of quantum mechanics F Selleri Seminar notes H Neumann Quantum theory as an indication of a new order in physics Philosophical comments on quantum mechanics A Shimony Comments and questions concerning Shimony s lecture J Ehlers

Non-locality and Modality Tomasz Placek, Jeremy Butterfield, 2012-12-06 Quantum theory is the most successful of all physical theories it has a towering mathematical structure a vast range of accurate predictions and technological applications Its interpretation however is as unsettled now as in the heroic days of Einstein and Bohr This book focuses on quantum non locality the curious quantum correlations between spatially separated systems Quantum non locality was one subject of the debates between Einstein Bohr and others such as Schr dinger The topic was revived in the 1960s as a result of Bell s epoch making theorems since then it has been a very active research field both theoretically and experimentally This book contains twenty new papers by eminent researchers who report recent developments in both the physics of the subject

and its philosophy The physics topics covered include quantum information the unsharp positive operator approach to observables the state space approach and the pilot wave theory The philosophy papers include precise studies of Bohr's reply to the original Einstein Podolsky Rosen non locality paradox and of non locality's relation to causation probability and modality

**John Von Neumann and Norbert Wiener** Steve J. Heims, 1980 John von Neumann and Norbert Wiener were mathematician scientists both child prodigies born near the turn of the century As young men each made profound contributions to abstract mathematics

**The Philosophy of Quantum Mechanics** Max Jammer, 1974-12-03 A Wiley Interscience publication

**John Von Neumann and Modern Economics** M. H. I. Dore, Sukhamoy Chakravarty, Richard Murphey Goodwin, 1989 Centering around von Neumann's 1937 paper on the model of an expanding economy this collection analyzes his versatility as a mathematician and his contribution to economics The contributors include Kenneth Arrow Lionello Punzo Paul Samuelson A Brody John Harsanyi Sidney Afriat Gerald Thompson and Nicholas Kaldor

**Einstein and the Philosophical Problems of 20th-century Physics**, 1983

[The Voice of the Martians](#) George Marx, 2001

[Quaestio](#), 2002

[Historical Studies in the Physical and Biological Sciences](#), 2005

[Encyclopedia of Mathematical Physics](#) Jean-Pierre Francoise, Gregory L. Naber, Tsou Sheung Tsun, 2006-06-20 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Francoise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) First comprehensive interdisciplinary coverage Mathematical Physics explained to stimulate new developments and foster new applications of its methods to other fields Written by an international group of experts Contains several undergraduate level introductory articles to facilitate acquisition of new expertis Thematic index and extensive cross referencing to provide easy access and quick search functionality Also available online with active linking

**Mathematical Foundations of Quantum Mechanics** John Von Neumann, 1955

## Reviewing **John Von Neumann And The Foundations Of Quantum Physics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**John Von Neumann And The Foundations Of Quantum Physics**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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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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