

MATHEMATICAL FOUNDATIONS OF QUANTUM MECHANICS

By John von Neumann

translated from the German edition by
ROBERT T. BEYER

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Mathematical Foundations Of Quantum Mechanics

John von Neumann



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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

Mathematical Foundations of Quantum Mechanics George W. Mackey, 2013-12-31 This graduate level text introduces fundamentals of classical mechanics surveys basics of quantum mechanics and concludes with a look at group theory and quantum mechanics of the atom 1963 edition

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The Mathematical Foundations of Quantum Mechanics, 2004

Mathematical Foundation of Quantum Mechanics K.R. Parthasarathy, 2005-10-15 This is a brief introduction to the mathematical foundations of quantum mechanics based on lectures given by the author to Ph D students at the Delhi Centre of the Indian Statistical Institute in order to initiate active research in the emerging field of quantum probability The material in the first chapter is included in the author's book *An Introduction to Quantum Stochastic Calculus* published by Birkhauser Verlag in 1992 and the permission of the publishers to reprint it here is acknowledged Apart from quantum probability an understanding of the role of group representations in the development of quantum mechanics is always a fascinating theme for mathematicians The first chapter deals with the definitions of states observables and automorphisms of a quantum system through Gleason's theorem Hahn Hellinger theorem and Wigner's theorem Mackey's imprimitivity theorem and the theorem of inducing representations of groups in stages are proved directly for projective unitary antiunitary representations in the second chapter Based on a discussion of multipliers on locally compact groups in the third chapter all the well known observables of classical quantum theory like linear momenta orbital and spin angular momenta kinetic and potential energies gauge operators etc are derived solely from Galilean covariance in the last chapter A very short account of observables concerning a relativistic free particle is included In conclusion the spectral theory of Schrodinger operators of one and two electron

atoms is discussed in some detail Mathematical Foundations Of Quantum Field Theory Albert Schwarz, 2020-04-15 The book is very different from other books devoted to quantum field theory both in the style of exposition and in the choice of topics Written for both mathematicians and physicists the author explains the theoretical formulation with a mixture of rigorous proofs and heuristic arguments references are given for those who are looking for more details The author is also careful to avoid ambiguous definitions and statements that can be found in some physics textbooks In terms of topics almost all other books are devoted to relativistic quantum field theory conversely this book is concentrated on the material that does not depend on the assumptions of Lorentz invariance and or locality It contains also a chapter discussing application of methods of quantum field theory to statistical physics in particular to the derivation of the diagram techniques that appear in thermo field dynamics and Keldysh formalism It is not assumed that the reader is familiar with quantum mechanics the book contains a short introduction to quantum mechanics for mathematicians and an appendix devoted to some mathematical facts used in the book **Mathematical Foundations of Quantum Theory** A.R. Marlow, 2012-12-02 Mathematical Foundations of Quantum Theory is a collection of papers presented at the 1977 conference on the Mathematical Foundations of Quantum Theory held in New Orleans The contributors present their topics from a wide variety of backgrounds and specialization but all shared a common interest in answering quantum issues Organized into 20 chapters this book's opening chapters establish a sound mathematical basis for quantum theory and a mode of observation in the double slit experiment This book then describes the Lorentz particle system and other mathematical structures with which fundamental quantum theory must deal and then some unsolved problems in the quantum logic approach to the foundations of quantum mechanics are considered Considerable chapters cover topics on manuals and logics for quantum mechanics This book also examines the problems in quantum logic and then presents examples of their interpretation and relevance to nonclassical logic and statistics The accommodation of conventional Fermi Dirac and Bose Einstein statistics in quantum mechanics or quantum field theory is illustrated The final chapters of the book present a system of axioms for nonrelativistic quantum mechanics with particular emphasis on the role of density operators as states Specific connections of this theory with other formulations of quantum theory are also considered These chapters also deal with the determination of the state of an elementary quantum mechanical system by the associated position and momentum distribution This book is of value to physicists mathematicians and researchers who are interested in quantum theory The mathematical foundations of quantum mechanics : a lecture-note volume George W. Mackey, 1980 **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,1949 **Mathematical Foundations of Quantum Mechanics** Alonzo Church,1955

The Mathematical Foundations of Quantum Mechanics George Whitelaw Mackey,1959 Mathematical Foundations Of Quantum Mechanics J. Von_Neumann, **Mathematical Foundation of Quantum Mechanics**

Kalyanapuram Rangachari Parthasarathy,Maddaly Krishna,2011 The mathematical foundations of quantum mechanics

George Whitelaw Mackey,1963 *Mathematical Foundations of Quantum Mechanics* Ludwig Johann Neumann,1955

Mathematical Foundations of Quantum Statistics Aleksandr I[А]kovlevich Khinchin,1960 **On the Empirical and Mathematical Foundations of Quantum Mechanics** Eduard Prugovečki,1965

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