

MATHEMATICAL FOUNDATIONS OF QUANTUM MECHANICS

By John von Neumann

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Mathematical Foundations Of Quantum Mech

John von Neumann



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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 **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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theory **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 [The Mathematical Foundations of Quantum Mechanics](#) ,2004 **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 [The Mathematical Foundations of Quantum Mechanics](#) George Whitelaw Mackey, 1959 **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

The mathematical foundations of quantum mechanics : a lecture-note volume George W. Mackey, 1980 **Mathematical Foundations of Quantum Information and Computation and Its Applications to Nano- and Bio-systems** Masanori Ohya, I. Volovich, 2011-01-15 This monograph provides a mathematical foundation to the theory of quantum information and computation with applications to various open systems including nano and bio systems It includes introductory material on algorithm functional analysis probability theory information theory quantum mechanics and quantum field theory Apart from standard material on quantum information like quantum algorithm and teleportation the authors discuss findings on the theory of entropy in C dynamical systems space time dependence of quantum entangled states entangling operators adaptive dynamics relativistic quantum information and a new paradigm for quantum computation beyond the usual quantum Turing machine Also some important applications of information theory to genetics and life sciences as well as recent experimental and theoretical discoveries in quantum photosynthesis are described

Mathematical Foundations of Quantum Statistics A. Y. Khinchin, 2013-02-21 A coherent well organized look at the basis of quantum statistics computational methods the determination of the mean values of occupation numbers the foundations of the statistics of photons and material particles thermodynamics **Spectral Theory and Quantum**

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Quantum Symmetry and Symmetry Groups and including a number of fundamental results on the algebraic formulation of quantum theories Intended for Master s and PhD students both in physics and mathematics the material is designed to be self contained it includes a summary of point set topology and abstract measure theory together with an appendix on differential geometry The book also benefits established researchers by organizing and presenting the profusion of advanced material disseminated in the literature Most chapters are accompanied by exercises many of which are solved explicitly

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Understanding Quantum Mechanics Detlef Dürr, Dustin

Lazarovici, 2020-03-16 This book discusses the physical and mathematical foundations of modern quantum mechanics and three realistic quantum theories that John Stuart Bell called theories without observers because they do not merely speak about measurements but develop an objective picture of the physical world These are Bohmian mechanics the GRW collapse theory and the Many Worlds theory The book is ideal to accompany or supplement a lecture course on quantum mechanics but also suited for self study particularly for those who have completed such a course but are left puzzled by the question What does the mathematical formalism which I have so laboriously learned and applied actually tell us about nature *The mathematical foundations of quantum mechanics* George Whitelaw Mackey, 1963 Mathematical Foundations of Quantum Statistical Mechanics D.Y. Petrina, 2012-12-06 This monograph is devoted to quantum statistical mechanics It can be regarded as a continuation of the book *Mathematical Foundations of Classical Statistical Mechanics Continuous Systems* Gordon Breach SP 1989 written together with my colleagues V I Gerasimenko and P V Malyshev Taken together these books give a complete presentation of the statistical mechanics of continuous systems both quantum and classical from the common point of view Both books have similar contents They deal with the investigation of states of finite systems which are described by infinite sequences of statistical operators reduced density matrices or Green s functions in the quantum case and by infinite sequences of distribution functions in the classical case The equations of state and their solutions are the main object of investigation in these books For infinite systems the solutions of the equations of state are constructed by using the thermodynamic limit procedure according to which we first find a solution for a system of finitely many particles and then let the number of particles and the volume of a region tend to infinity keeping the density of particles constant However the style of presentation in these books is quite different

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