MATHEMATICAL FOUNDATIONS of QUANTUM MECHANICS

New Edition

JOHN VON NEUMANN

Edited by NICHOLAS A. WHEELER

Mathematical Foundations Of Quantum Mechanics Princeton Landmarks In Mathematics And Physics

JS Bruner

Mathematical Foundations Of Quantum Mechanics Princeton Landmarks In Mathematics And Physics:
Mathematical Foundations of Quantum Mechanics John Von Neumann,1971 **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 John von Neumann,1955 A revolutionary book that for the first time provided a rigorous mathematical framework for quantum mechanics Google books **Lectures on Quantum Mechanics** Philip L. Bowers,2020-09-17 A leisurely but mathematically honest presentation of quantum mechanics for graduate students in mathematics with an interest in physics The Formalisms of Quantum Mechanics Francois David,2014-11-06 These lecture notes present a concise and introductory yet as far as possible coherent view of the main formalizations of quantum mechanics and of quantum field theories their interrelations and their theoretical foundations The standard formulation of quantum mechanics involving the Hilbert space of pure states self adjoint operators as physical observables and the probabilistic interpretation given by the Born rule on one hand and the path integral and functional integral representations of probabilities amplitudes on the other are the standard tools used in most applications of quantum theory in physics and chemistry Yet other mathematical representations of quantum mechanics sometimes allow better comprehension and justification of quantum theory This text focuses on two of such representations the algebraic formulation of quantum mechanics and the quantum logic approach Last but not least some emphasis will also be put on understanding the relation between quantum physics and special relativity through their common roots causality locality and reversibility as well as on the relation between quantum theory information theory correlations and measurements and quantum gravity Quantum mechanics is probably the most successful physical theory ever proposed and despite huge experimental and technical progresses in over almost a century it has never been seriously challenged by experiments In addition quantum information science ha s become an important and very active field in recent decades further enriching the many facets of quantum physics Yet there is a strong revival of the discussions about the principles of quantum mechanics and its seemingly paradoxical aspects sometimes the theory is portrayed as the

unchallenged and dominant paradigm of modern physical sciences and technologies while sometimes it is considered a still mysterious and poorly understood theory waiting for a revolution This volume addressing graduate students and seasoned researchers alike aims to contribute to the reconciliation of these two facets of quantum mechanics *Relativity, Symmetry and the Structure of the Quantum Theory* William H. Klink,Sujeev Wickramasekara,2014-04-01 Quantum theory is one of the most successful of all physical theories Our everyday world is dominated by devices that function because of knowledge of the quantum world Yet many physicists and non physicists alike find the theory which explains the beh *The Philosophy of Quantum Physics* Cord Friebe,Meinard Kuhlmann,Holger Lyre,Paul M. Näger,Oliver Passon,Manfred Stöckler,2018-06-21 This book provides a thorough and up to date introduction to the philosophy of quantum physics Although quantum theory is renowned for its spectacular empirical successes controversial discussion about how it should be understood continue to rage today In this volume the authors provide an overview of its numerous philosophical challenges Do quantum objects violate the principle of causality Are particles of the same type indistinguishable and therefore not individual entities Do quantum objects retain their identity over time How does a compound quantum system relate to its parts These questions are answered here within different interpretational approaches to quantum theory Finally moving to Quantum Field Theory we find that the problem of non locality is exacerbated Philosophy of quantum physics is aimed at philosophers with an interest in physics while also serving to familiarize physicists with many of the essential philosophical questions of their subject

Quantum Mechanics Sergio Cecotti,2025-09-26 This advanced introductory textbook offers a comprehensive approach to non relativistic Quantum Mechanics focusing on exact methods and mathematical techniques often overlooked in standard textbooks Bridging the gap between foundational concepts and advanced topics this book introduces numerous methods some of which are entirely new making it an invaluable resource for students and researchers alike Key topics include open quantum systems entanglement and supersymmetry providing a modern perspective on the subject With eight in depth chapters it covers Quantum Mechanics A New Paradigm Hilbert Space Formulation of Quantum Physics Schr dinger Equation I Symmetry Angular Momentum and Statistics Schr dinger Equation II Path Integrals Quantum Entanglement Methods Techniques and Approximation Schemes Perfect for those seeking a deeper understanding of quantum mechanics beyond the basics this textbook combines theory with practical mathematical methods to present the full scope of the subject s complexity **The Feynman Integral and Feynman's Operational Calculus** ,2000-03-16 The aim of this book is to make accessible to mathematicians physicists and other scientists interested in qunatum theory the beautiful but mathematically difficult subjects of the Feynman integral and Feynman s operational calculus Some advantages of the approaches to the Feynman integral which are treated in detail in this book are the following the existence of the Feynman integral is established for very general potentials in all four cases under more restrictive but still broad conditions three of these Feynman integrals agree with one another and with the unitary group from the usual approach to quantum dynamics

these same three Feynman integrals possess pleasant stability properties Much of the material covered here was previously available only in the research literature and the book also contains some new results The background material in mathematics and physics that motivates the study of the Feynman integral and Feynman s operational calculus is discussed and detailed proofs are provided for the central results   *Continuous Geometry* John von Neumann,2016-06-02 In his work on rings of operators in Hilbert space John von Neumann discovered a new mathematical structure that resembled the lattice system Ln In characterizing its properties von Neumann founded the field of continuous geometry This book based on von Neumann s lecture notes begins with the development of the axioms of continuous geometry dimension theory and for the irreducible case the function D a The properties of regular rings are then discussed and a variety of results are presented for lattices that are continuous geometries for which irreducibility is not assumed For students and researchers interested in ring theory or projective geometries this book is required reading   *New Perspectives On Einstein's E = Mc2* Young Suh Kim,Marilyn E Noz,2018-09-18 Einstein s energy momentum relation is applicable to particles of all speeds including the particle at rest and the massless particle moving with the speed of light If one formula or formalism is applicable to all speeds we say it is Lorentz covariant As for the internal space time symmetries there does not appear to be a clear way to approach this problem For a particle at rest there are three spin degrees of freedom For a massless particle there are helicity and gauge degrees of freedom The aim of this book is to present one Lorentz covariant picture of these two different space time symmetries Using the same mathematical tool it is possible to give a Lorentz covariant picture of Gell Mann s quark model for the proton at rest and Feynman s parton model for the fast moving proton The mathematical formalism for these aspects of the Lorentz covariance is based on two by two matrices and harmonic oscillators which serve as two basic scientific languages for many different branches of physics It is pointed out that the formalism presented in this book is applicable to various aspects of optical sciences of current interest   **Statistical Benchmarks for Quantum Transport in Complex Systems** Mattia Walschaers,2018-07-31 This book introduces a variety of statistical tools for characterising and designing the dynamical features of complex quantum systems These tools are applied in the contexts of energy transfer in photosynthesis and boson sampling In dynamical quantum systems complexity typically manifests itself via the interference of a rapidly growing number of paths that connect the initial and final states The book presents the language of graphs and networks providing a useful framework to discuss such scenarios and explore the rich phenomenology of transport phenomena As the complexity increases deterministic approaches rapidly become intractable which leaves statistics as a viable alternative   Geometry of State Spaces of Operator Algebras Erik M. Alfsen,Frederic W. Shultz,2012-12-06 In this book we give a complete geometric description of state spaces of operator algebras Jordan as well as associative That is we give axiomatic characterizations of those convex sets that are state spaces of C algebras and von Neumann algebras together with such characterizations for the normed Jordan algebras called JB algebras and JBW algebras These non associative

algebras generalize C algebras and von Neumann algebras re spectively and the characterization of their state spaces is not only of interest in itself but is also an important intermediate step towards the characterization of the state spaces of the associative algebras This book gives a complete and updated presentation of the character ization theorems of 10 11 and 71 Our previous book State spaces of operator algebras basic theory orientations and C products referenced as AS in the sequel gives an account of the necessary prerequisites on C algebras and von Neumann algebras as well as a discussion of the key notion of orientations of state spaces For the convenience of the reader we have summarized these prerequisites in an appendix which contains all relevant definitions and results listed as AI A2 with reference back to AS for proofs so that this book is self contained **Angular Momentum in Quantum Mechanics** A. R. Edmonds,2016-08-10 This book offers a concise introduction to the angular momentum one of the most fundamental quantities in all of quantum mechanics Beginning with the quantization of angular momentum spin angular momentum and the orbital angular momentum the author goes on to discuss the Clebsch Gordan coefficients for a two component system After developing the necessary mathematics specifically spherical tensors and tensor operators the author then investigates the 3 j 6 j and 9 j symbols Throughout the author provides practical applications to atomic molecular and nuclear physics These include partial wave expansions the emission and absorption of particles the proton and electron quadrupole moment matrix element calculation in practice and the properties of the symmetrical top molecule Quantum Independent Increment Processes II Ole E. Barndorff-Nielsen,2006 Lectures given at the school Quantum Independent Increment Processes Structure and Applications to Physics held at the Alfried Krupp Wissenschaftskolleg in Greifswald in March 9 22 2003 Introduction to Mathematical Logic Alonzo Church,2016-03-02 Logic is sometimes called the foundation of mathematics the logician studies the kinds of reasoning used in the individual steps of a proof Alonzo Church was a pioneer in the field of mathematical logic whose contributions to number theory and the theories of algorithms and computability laid the theoretical foundations of computer science His first Princeton book The Calculi of Lambda Conversion 1941 established an invaluable tool that computer scientists still use today Even beyond the accomplishment of that book however his second Princeton book Introduction to Mathematical Logic defined its subject for a generation Originally published in Princeton s Annals of Mathematics Studies series this book was revised in 1956 and reprinted a third time in 1996 in the Princeton Landmarks in Mathematics series Although new results in mathematical logic have been developed and other textbooks have been published it remains sixty years later a basic source for understanding formal logic Church was one of the principal founders of the Association for Symbolic Logic he founded the Journal of Symbolic Logic in 1936 and remained an editor until 1979 At his death in 1995 Church was still regarded as the greatest mathematical logician in the world Lectures on Field Theory and Topology Daniel S. Freed,2019-08-23 These lectures recount an application of stable homotopy theory to a concrete problem in low energy physics the classification of special phases of matter While the joint work of the author and Michael Hopkins is a focal

point a general geometric frame of reference on quantum field theory is emphasized Early lectures describe the geometric axiom systems introduced by Graeme Segal and Michael Atiyah in the late 1980s as well as subsequent extensions This material provides an entry point for mathematicians to delve into quantum field theory Classification theorems in low dimensions are proved to illustrate the framework The later lectures turn to more specialized topics in field theory including the relationship between invertible field theories and stable homotopy theory extended unitarity anomalies and relativistic free fermion systems The accompanying mathematical explanations touch upon higher category theory duals to the sphere spectrum equivariant spectra differential cohomology and Dirac operators The outcome of computations made using the Adams spectral sequence is presented and compared to results in the condensed matter literature obtained by very different means The general perspectives and specific applications fuse into a compelling story at the interface of contemporary mathematics and theoretical physics **Homological Algebra** Henri Cartan,Samuel Eilenberg,2016-06-02 When this book was written methods of algebraic topology had caused revolutions in the world of pure algebra To clarify the advances that had been made Cartan and Eilenberg tried to unify the fields and to construct the framework of a fully fledged theory The invasion of algebra had occurred on three fronts through the construction of cohomology theories for groups Lie algebras and associative algebras This book presents a single homology and also cohomology theory that embodies all three a large number of results is thus established in a general framework Subsequently each of the three theories is singled out by a suitable specialization and its specific properties are studied The starting point is the notion of a module over a ring The primary operations are the tensor product of two modules and the groups of all homomorphisms of one module into another From these higher order derived of operations are obtained which enjoy all the properties usually attributed to homology theories This leads in a natural way to the study of functors and of their derived functors This mathematical masterpiece will appeal to all mathematicians working in algebraic topology **Progress in Computational Physics (PiCP): Volume 1** Matthias Ehrhardt,2010 Progress in Computational Physics is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computat **Linguistic Copenhagen Interpretation of Quantum Theory** Shiro ISHIKAWA,2023-11-15 Various interpretations of quantum mechanics have been proposed such as the Copenhagen interpretation and the many worlds interpretation The linguistic Copenhagen interpretation in this book is a kind of the Copenhagen interpretation derived from von Neumann s formulation of quantum mechanics on Hilbert spaces Von Neumann had the widest coverage of any mathematician of his time integrating pure and applied sciences and making major contributions to many fields including mathematics physics economics computing and statistics He was not a genius who specialised only in mathematics and physics but an all round genius From this fact we are tempted to expect the following 1 the quantum theory generated from the linguistic Copenhagen interpretation called Quantum Language QL is a very large

theory that includes not only quantum mechanics of physics but also classical statistics More generally we may say 2 QL is the scientific realisation of the dualistic idealism of philosophy In this book I devote myself to proving 1 QL consists of two axioms measurement and causality and the linguistic Copenhagen interpretation I first prove von Neumann L ders projection postulate in QL This is a solution in QL and it is undecided whether it is a physical solution but the theorem allows QL to be discussed without being interfered by various paradoxes e g Schr dinger s cat etc Also recall that there are no axioms in statistics This means that we do not yet have theoretical statistics However if we consider that QL for classical systems theoretical statistics we can then introduce an elegant understanding into statistics In most books of statistics Fisher s maximum likelihood method is not given a due treatment From the quantum linguistic point of view the most basic arguments are Fisher s maximum likelihood method and regression analysis They are strongly linked to the measurement and causality axioms respectively As modern statistics continues to develop rapidly in the direction of application now it is essential to take an overview of statistics as a whole under an umbrella of theoretical statistics For 2 refer to my previous book i e History of Western Philosophy from a perspective of quantum theory Introduction to theory of everyday science Shiho Shuppan Publisher 425 p 2023 Throughout this book as wall as the one above I assert that von Neumann s formulation of quantum mechanics should not be confined in physics but should be regarded as a fundamental theory of science

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