

Jagdish Mehra
Helmut Rechenberg

THE HISTORICAL DEVELOPMENT OF QUANTUM THEORY

VOLUME 3

The Formulation of
Matrix Mechanics and Its Modifications
1925-1926



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The Formulation Of Matrix Mechanics And Its Modifications 1925 1926

Peter Enders



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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

Heisenberg's 1925 "Umdeutung" Paper Marco Giliaberti, Luisa Lovisetti, 2025-07-31 This book presents a meticulously crafted new translation of Werner Heisenberg's ground breaking 1925 paper widely regarded as the birth certificate of quantum mechanics The translation remains faithful to the original terminology and is accompanied by a particularly detailed step by step commentary These annotations are designed not only to clarify the meaning of this complex work for the modern reader but also to illuminate the reasoning behind Heisenberg's choices offering deep insight into the physical conceptual and mathematical foundations of the theory Great care has been taken to make the calculations as explicit as possible while keeping them concise ensuring that every essential step is clear without unnecessary complexity This approach allows readers to grasp the logical flow of Heisenberg's argument while

appreciating the elegance of his formulation Beyond the paper itself the book situates Heisenberg's work within the broader intellectual landscape of the time tracing the intense discussions and challenges in physics that led to the birth of quantum mechanics It also provides insight into the subsequent contributions of Born Jordan and Heisenberg himself that culminated in the formulation of matrix mechanics Aimed at readers with a university level background in quantum mechanics this book is an invaluable resource for those who wish to delve into the motivations conceptual developments and intricate reasoning that led Heisenberg to construct the new quantum theory in such a unique and revolutionary way

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The Conceptual Completion and Extensions of Quantum Mechanics 1932-1941. Epilogue: Aspects of the Further Development of Quantum Theory 1942-1999 Jagdish Mehra, Helmut Rechenberg, 2001-04-20 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 Comments by distinguished physicists on The Historical Development of Quantum Theory the most definitive work undertaken by anyone on this vast and most important development in the history of physics Jagdish Mehra trained in theoretical physics under Pauli Heisenberg and Dirac pursued the vision of his youth to

write about the historical and conceptual development of quantum theory in the 20th century This series of books on the HDQT has thus become the most authentic and permanent source of our knowledge of how quantum theory its extensions and applications developed My heartfelt congratulations Hans A Bethe Nobel Laureate A thrilling and magnificent achievement Subrahmanyan Chandrasekhar FRS Nobel Laureate captures precisely accurately and thoroughly the very essence and all the fundamental details of the theory and that is a remarkable achievement I have greatly enjoyed reading these books and learned so many new things from them This series of books will remain a permanent source of knowledge about the creation and development of quantum theory Congratulations Paul A Dirac FRS Nobel Laureate The wealth and accuracy of detail in The Historical Development of Quantum Theory are breathtaking Richard P Feynman Nobel Laureate

Quantum Mechanics in Simple Matrix Form Thomas F. Jordan, 2012-05-23 With this text basic quantum mechanics becomes accessible to undergraduates with no background in mathematics beyond algebra Includes more than 100 problems and 38 figures 1986 edition

Constructing Quantum Mechanics Volume Two Michel Janssen, Anthony Duncan, 2023-08-17 This is the second of two volumes on the genesis of quantum mechanics in the first quarter of the 20th century It covers the period 1923-1927 After covering some of the difficulties the old quantum theory had run into by the early 1920s as well as the discovery of the exclusion principle and electron spin it traces the emergence of two forms of the new quantum mechanics matrix mechanics and wave mechanics in the years 1923-27 It then shows how the new theory took care of some of the failures of the old theory and put its successes on a more solid basis Finally it shows how in 1927 the two forms of the new theory were unified first through statistical transformation theory then through the Hilbert space formalism This volume provides a detailed analysis of the classic papers by Heisenberg Born Jordan Dirac De Broglie Einstein Schrödinger von Neumann and other authors Drawing on the correspondence of these and other physicists their later reminiscences and the extensive secondary literature on the quantum revolution this volume places these papers in the context of the discussions out of which modern quantum mechanics emerged It argues that the genesis of modern quantum mechanics can be seen as the construction of an arch on a scaffold provided by the old quantum theory discarded once the arch could support itself

Classical Mechanics and Quantum Mechanics: An Historic-Axiomatic Approach Peter Enders, 2019-09-05 This unique textbook presents a novel axiomatic pedagogical path from classical to quantum physics Readers are introduced to the description of classical mechanics which rests on Euler's and Helmholtz's rather than Newton's or Hamilton's representations Special attention is given to the common attributes rather than to the differences between classical and quantum mechanics Readers will also learn about Schrödinger's forgotten demands on quantization his equation Einstein's idea of quantization as selection problem The Schrödinger equation is derived without any assumptions about the nature of quantum systems such as interference and superposition or the existence of a quantum of action h The use of the classical expressions for the potential and kinetic energies within quantum physics is justified Key features Presents

extensive reference to original texts Includes many details that do not enter contemporary representations of classical mechanics although these details are essential for understanding quantum physics Contains a simple level of mathematics which is seldom higher than that of the common Riemannian integral Brings information about important scientists Carefully introduces basic equations notations and quantities in simple steps This book addresses the needs of physics students teachers and historians with its simple easy to understand presentation and comprehensive approach to both classical and quantum mechanics

Theoretical Chemistry and Physics of Heavy and Superheavy Elements U. Kaldor, Stephen Wilson, 2013-06-29 Quantum mechanics provides the fundamental theoretical apparatus for describing the structure and properties of atoms and molecules in terms of the behaviour of their fundamental components electrons and nucleons. For heavy atoms and molecules containing them the electrons can move at speeds which represent a substantial fraction of the speed of light and thus relativity must be taken into account Relativistic quantum mechanics therefore provides the basic formalism for calculating the properties of heavy atom systems The purpose of this book is to provide a detailed description of the application of relativistic quantum mechanics to the many body problem in the theoretical chemistry and physics of heavy and superheavy elements Recent years have witnessed a continued and growing interest in relativistic quantum chemical methods and the associated computational algorithms which facilitate their application This interest is fuelled by the need to develop robust yet efficient theoretical approaches together with efficient algorithms which can be applied to atoms in the lower part of the Periodic Table and more particularly molecules and molecular entities containing such atoms Such relativistic theories and computational algorithms are an essential ingredient for the description of heavy element chemistry becoming even more important in the case of superheavy elements They are destined to become an indispensable tool in the quantum chemist's armoury Indeed since relativity influences the structure of every atom in the Periodic Table relativistic molecular structure methods may replace in many applications the non relativistic techniques widely used in contemporary research

Old Quantum Theory and Early Quantum Mechanics Marco Giliberti, Luisa Lovisetti, 2024-06-28 This book provides a historical presentation of Old Quantum Theory and early Quantum Mechanics integrated with comments and examples that help contextualize and understand the physics discussed It consists in a detailed analysis of the usual topics that have most contributed to the birth and the development of Quantum Mechanics black body spectrum atomic models EPR paradox etc but also dealing with ideas concepts and results that are not usually treated vortex atoms discussion on the meaning of the term electron non quantum models of the Compton effect etc The time span taken into consideration goes mainly from the 1880s to the 1940s but some brief notes on more recent results are also presented in the appendixes The work is based on nearly 800 original documents books papers letters newspapers whose content is not only partially reported but also explained and inserted in the historical social and disciplinary context of the time Together with a rigorous historical framework the book offers also an educational discussion of the physical aspects presented Indeed there are some specific

sections and subsections with pedagogical observations This book is intended for students pursuing STEM degrees particularly those seeking an understanding of the genesis and rationale behind quantum mechanics But it is surely also addressed to professional physicists who are eager to reconsider the cultural foundations underlying the quantum view of the world We are thus thinking of inquiring minds people who teach quantum physics and individuals involved in quantum technologies

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

Rechenberg, 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

Elements of Quantum Optics Brice Scott, 2019-09-03 The book gives a broad coverage of the basic elements necessary to understand and carry out research in quantum optics It presents a variety of theoretical tools and important results for two level and semiconductor media many of which could only be found in the original literature of in specialized monographs up to now The text reveals the close connection between many seemingly unrelated topics The book e Quantum Opticse has been written to meet the requirement of the degree and post graduate students The subject matter has been discussed in such a simple way that the students will find no difficult to understand it Most of the examples given in the book have been selected from various university examination papers and the book cover the syllabus of almost all the universities

Understanding the Path from Classical to Quantum Mechanics Jaroslav Zamastil, 2023-07-27 The book is about the transition from classical to quantum mechanics covering the historical development of this great leap and explaining the concepts needed to understand it at a level suitable for undergraduate students The first part of the book summarizes classical electrodynamics and the Hamiltonian formulation of classical mechanics the two elements of classical physics which are crucial for understanding the classical to quantum transition The second part loosely traces the historical development of the classical to quantum transition starting with Einstein's 1916 derivation of the Planck radiation law continuing with the Ladenburg Kramers Born Heisenberg dispersion theory and ending with Heisenberg's magical 1925 paper which established quantum mechanics The purpose of the book is

partly historical partly philosophical but mainly pedagogical It will appeal to a wide audience from undergraduate students for whom it can serve as a preparatory or supplementary text to standard textbooks to physicists and historians interested in the historical development of science

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