

Jagdish Mehra
Helmut Rechenberg

THE HISTORICAL DEVELOPMENT OF QUANTUM THEORY

VOLUME I

Part 2

The Quantum Theory of
Planck, Einstein, Bohr and Sommerfeld:
Its Foundation and the Rise of Its Difficulties
1900 — 1925

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Quantum Theory Of Planck Einstein Bohr And Sommerfeld 1900 1925

Manjit Kumar



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understand it For most people quantum theory is synonymous with mysterious impenetrable science And in fact for many years it was equally baffling for scientists themselves In this tour de force of science history Manjit Kumar gives a dramatic and superbly written account of this fundamental scientific revolution focusing on the central conflict between Einstein and Bohr over the nature of reality and the soul of science This revelatory book takes a close look at the golden age of physics the brilliant young minds at its core and how an idea ignited the greatest intellectual debate of the twentieth century **The Historical Development of Quantum Theory** Jagdish Mehra, Helmut Rechenberg, 1982-08-03 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 *The historical development of quantum theory* 12 A82, 1982 Old Quantum Theory and Early Quantum Mechanics Marco Gilierti, 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 Historical Development of**

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The twentieth century was defined by physics. From the minds of the world's leading physicists there flowed a river of ideas that would transport mankind to the pinnacle of wonderment and to the very depths of human despair. This was a century that began with the certainties of absolute knowledge and ended with the knowledge of absolute uncertainty. It was a century in which physicists developed weapons with the capacity to destroy our reality whilst at the same time denying us the possibility that we can ever properly comprehend it. Almost everything we think we know about the nature of our world comes from one theory of physics. This theory was discovered and refined in the first thirty years of the twentieth century and went on to become quite simply the most successful theory of physics ever devised. Its concepts underpin much of the twenty-first century technology that we have learned to take for granted. But its success has come at a price for it has at the same time completely undermined our ability to make sense of the world at the level of its most fundamental constituents. Rejecting the fundamental elements of uncertainty and chance implied by quantum theory, Albert Einstein once famously declared that God does not play dice. Niels Bohr claimed that anybody who is not shocked by the theory has not understood it. The charismatic American physicist Richard Feynman went further; he claimed that nobody understands it. This is quantum theory, and this book tells its story. Jim Baggott presents a celebration of this wonderful yet wholly disconcerting theory with a history told in forty episodes, significant moments of truth or turning points in the theory's development. From its birth in the porcelain furnaces used to study black body radiation in 1900 to the promise of stimulating new quantum phenomena to be revealed by CERN's Large Hadron Collider over a hundred years later, this is the extraordinary story of the quantum world. Oxford Landmark Science books are must-read classics of modern science writing which have crystallized big ideas and shaped the way we think.

Heisenberg's 1925 "Umdeutung" Paper Marco Giliberti, Luisa Loviseti, 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 *The Historical Development of Quantum Theory* Jagdish Mehra, Helmut Rechenberg, 1982-08-03 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

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