

THE GENESIS OF QUANTUM THEORY (1899-1913)

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Genesis Of Quantum Theory 1899 1913

Helge Kragh



Genesis Of Quantum Theory 1899 1913:

Frühgeschichte Der Quantentheorie (1899-1913) Armin Hermann,1971 The book is an exceedingly well documented account of the first fifteen years of the quantum idea Ira M Freeman Physics Today

Frühgeschichte der Quantentheorie, 1899-1913. The genesis of quantum theory, 1899-1913 ... Translated by Claude W. Nash Armin

Hermann,1971 *Theoretical Concepts in Physics* Malcolm S. Longair,2003-12-04 A highly original and truly novel approach to theoretical reasoning in physics This book illuminates the subject from the perspective of real physics as practised by research scientists It is intended to be a supplement to the final years of an undergraduate course in physics and assumes that the reader has some grasp of university physics By means of a series of seven case studies the author conveys the excitement of research and discovery highlighting the intellectual struggles to attain understanding of some of the most difficult concepts in physics Case studies include the origins of Newton's law of gravitation Maxwell's equations mechanics and dynamics linear and non linear thermodynamics and statistical physics the origins of the concepts of quanta special relativity general relativity and cosmology The approach is the same as that in the highly acclaimed first edition but the text has been completely revised and many new topics introduced

Old Quantum Theory and Early Quantum Mechanics Marco Gilierti,Luisa Loviseti,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

Black-Body Theory and the Quantum Discontinuity, 1894-1912 Thomas S. Kuhn,1987-01-15 A masterly assessment of the way the idea of quanta of radiation became part of 20th century physics The book not only deals with a topic of importance and interest to all scientists but is also a polished literary work described accurately by one of its original reviewers as a scientific detective story John Gribbin New Scientist Every scientist

should have this book Paul Davies New Scientist Statistical Method from the Viewpoint of Quality Control Walter Andrew Shewhart, William Edwards Deming, 1986-01-01 Important text offers lucid explanation of how to regulate variables and maintain control over statistics in order to achieve quality control over manufactured products crops and data Topics include statistical control establishing limits of variability measurements of physical properties and constants and specification of accuracy and precision First inexpensive paperback edition **Transgressive Readings** Valerie D. Greenberg, 1990 Argues for a critical awareness of language across the boundaries of disciplines *A Different Thermodynamics and its True Heroes* Evgeni B. Starikov, 2019-04-01 Modern thermodynamics is a unique but still not a logically self consistent field of knowledge It has a proven universal applicability and significance but its actual potential is still latent The development of the foundations of thermodynamics was in effect non stop but absolutely no one has any idea about this This book is the first of its kind that will motivate researchers to build up a logically consistent field of thermodynamics It greatly appreciates the actual depth and potential of thermodynamics which might also be of interest to readers in history and philosophy of scientific research The book presents the life stories of the protagonists in detail and allows readers to cast a look at the whole scene of the field by showcasing a significant number of their colleagues whose works have fittingly complemented their achievements It also tries to trigger a detailed analysis of the reasons why the actual work in this extremely important field has in effect gone astray It comprises five chapters and introduces three scientists in the first two chapters which are specifically devoted to the Scandinavian achievements in macroscopic thermodynamics These introductions are novel and call for a detailed reconsideration of the field The third chapter acquaints the readers with their fourth colleague in Germany who was working on the proper link between the macroscopic thermodynamics kinetics and the atomistic representation of matter The fourth chapter brings in their fifth colleague in the United States who could formally infer the famous formula $S = k \ln W$ ingeniously guessed by Ludwig Boltzmann and thus clarify the physical sense of the entropy notion The last chapter summarizes the above mentioned discourses **Historical Studies in the Physical Sciences, Volume 7** Russell McCormmach, 2015-03-08 The first article in this volume by Tetu Hirosige is a definitive study of the genesis of Einstein's theory of relativity Other articles treat topics theoretical experimental philosophical and institutional in the history of physics and chemistry from the researches of Laplace and Lavoisier in the eighteenth century to those of Dirac and Jordan in the twentieth century Contents The Ether Problem the Mechanistic World View and the Origins of the Theory of Relativity Tetu Hirosige Einstein's Early Scientific Collaboration Lewis Pyenson Max Planck's Philosophy of Nature and His Elaboration of the Special Theory of Relativity Stanley Goldberg The Concept of Particle Creation before and after Quantum Mechanics Joan Bromberg Chemistry as a Branch of Physics Laplace's Collaboration with Lavoisier Henry Guerlac Mayer's Concept of Force The Axis of a New Science of Physics P M Heimann Debates over the Theory of Solution A Study of Dissent in Physical Chemistry in the English Speaking World in the Late Nineteenth and Early Twentieth Centuries R G A Dolby The Rise of

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Science Firsts Robert E. Adler, 2003-05-01 Be on hand to witness some of the most monumental scientific discoveries of the past three millennia This engaging collection offers readers the unique experience of being on hand to witness some of the most epic breakthrough in the history of science From ancient Greeks Thales and Pythagoras to Enrico Fermi Francis Watson and James Crick and even Dolly the Sheep Science Firsts provides an unparalleled opportunity to peer over the shoulders of great scientists as they become the first to set eyes on new worlds Over the course of thirty five concise superbly written accounts science writer Robert Adler takes readers on an lively journey through nearly three millennia of epic scientific discovery offering accessible explanations of the science involved along with vivid historical and biographical details that help place the discoveries and their discoverers in context for contemporary readers

Quantum Generations Helge Kragh, 2020-06-16 At the end of the nineteenth century some physicists believed that the basic principles underlying their subject were already known and that physics in the future would only consist of filling in the details They could hardly have been more wrong The past century has seen the rise of quantum mechanics relativity cosmology particle physics and solid state physics among other fields These subjects have fundamentally changed our understanding of space time and matter They have also transformed daily life inspiring a technological revolution that has included the development of radio television lasers nuclear power and computers In Quantum Generations Helge Kragh one of the world s leading historians of physics presents a sweeping account of these extraordinary achievements of the past one hundred years The first comprehensive one volume history of twentieth century physics the book takes us from the discovery of X rays in the mid 1890s to superstring theory in the 1990s Unlike most previous histories of physics written either from a scientific perspective or from a social and institutional perspective Quantum Generations combines both approaches Kragh writes about pure science with the expertise of a trained physicist while keeping the content accessible to nonspecialists and paying careful attention to practical uses of science ranging from compact disks to bombs As a historian Kragh skillfully outlines the social and economic contexts that have shaped the field in the twentieth century He writes for example about the impact of the two world wars the fate of physics under Hitler Mussolini and Stalin the role of military research the emerging leadership of the United States and the backlash against science that began in the 1960s He also shows how the revolutionary discoveries of scientists ranging from Einstein Planck and Bohr to Stephen Hawking have been built on the great traditions of earlier

centuries Combining a mastery of detail with a sure sense of the broad contours of historical change Kragh has written a fitting tribute to the scientists who have played such a decisive role in the making of the modern world Quantum Concepts in Physics Malcolm Longair,2013-01-31 Written for advanced undergraduates physicists and historians and philosophers of physics this book tells the story of the development of our understanding of quantum phenomena through the extraordinary years of the first three decades of the twentieth century Rather than following the standard axiomatic approach this book adopts a historical perspective explaining clearly and authoritatively how pioneers such as Heisenberg Schrodinger Pauli and Dirac developed the fundamentals of quantum mechanics and merged them into a coherent theory and why the mathematical infrastructure of quantum mechanics has to be as complex as it is The author creates a compelling narrative providing a remarkable example of how physics and mathematics work in practice The book encourages an enhanced appreciation of the interaction between mathematics theory and experiment helping the reader gain a deeper understanding of the development and content of quantum mechanics than any other text at this level **The Scope and History of Commutative and Noncommutative Harmonic Analysis** George W. Mackey,2005-04-08 When I was invited to speak at the conference on the history of analysis given at Rice University in 1977 I decided that it might be interesting to review the history of mathematics and physics in the last three hundred years or so with heavy emphasis on those parts in which harmonic analysis had played a decisive or at least a major role I was pleased and somewhat astonished to find how much of both subjects could be included under this rubric The picture that gradually emerged as the various details fell into place was one that I found very beautiful and the process of seeing it do so left me in an almost constant state of euphoria I would like to believe that others can be led to see this picture by reading my paper and to facilitate this I have included a large number of short expositions of topics which are not widely understood by non specialists from the Preface This volume containing the paper mentioned above as well as five other reprinted papers by Mackey presents a sweeping view of the importance utility and beauty of harmonic analysis and its connections to other areas of mathematics and science A seventh paper written exclusively for this volume attempts to unify certain themes that emerged after major discoveries in 1967 and 1968 in the areas of Lie algebras strong interaction physics statistical mechanics and nonlinear partial differential equations discoveries that may at first glance appear to be independent but which are in fact deeply interrelated Information for our distributors Copublished with the London Mathematical Society beginning with volume 4 Members of the LMS may order directly from the AMS at the AMS member price The LMS is registered with the Charity Commissioners No Truth Except in the Details A.J. Kox,D.M. Siegel,2012-12-06 Beginning with a couple of essays dealing with the experimental and mathematical foundations of physics in the work of Henry Cavendish and Joseph Fourier the volume goes on to consider the broad areas of investigation that constituted the central foci of the development of the physics discipline in the nineteenth century electricity and magnetism including especially the work of Michael Faraday William Thomson and James Clerk

Maxwell and thermodynamics and matter theory including the theoretical work and legacy of Josiah Willard Gibbs some experimental work relating to thermodynamics and kinetic theory of Heinrich Hertz and the work of Felix Seyler Hoppe on hemoglobin in the neighboring field of biophysics biochemistry Moving on to the beginning of the twentieth century a set of three articles on Albert Einstein deal with his early career and various influences on his work Finally a set of historiographical issues important for the history of physics are discussed and the chronological conclusion of the volume is an article on the Solvay Conference of 1933 For physicists interested in the history of their discipline historians and philosophers of science and graduate students in these and related disciplines *Progress in Optics* Emil Wolf,2007-11-21

In the forty six years that have gone by since the first volume of *Progress in Optics* was published optics has become one of the most dynamic fields of science The volumes in this series which have appeared up to now contain nearly 300 review articles by distinguished research workers which have become permanent records for many important developments

Historical Overview Attosecond Laser Pulses History of Conical Refraction Particle Concept of Light Field Quantization in Optics History of Near Field Optics History of Tunneling Influence of Young s Interference Experiment on Development of Statistical optics Planck Photon Statistics and Bose Einstein Condensation **The Quantum Cookbook** Jim Baggott,2020

The book combines popular and textbook presentation It aims not to teach readers how to do quantum mechanics but rather helps them understand how to think about quantum mechanics The real source of confusion in quantum mechanics does not originate in the mathematics but in our understanding of what a scientific theory is supposed to represent [Inquiry as Inquiry: A Logic of Scientific Discovery](#) Jaakko Hintikka,2013-04-17 Is a genuine logic of scientific discovery possible In the essays collected here Hintikka not only defends an affirmative answer he also outlines such a logic It is the logic of questions and answers Thus inquiry in the sense of knowledge seeking becomes inquiry in the sense of interrogation Using this new logic Hintikka establishes a result that will undoubtedly be considered the fundamental theorem of all epistemology viz the virtual identity of optimal strategies of pure discovery with optimal deductive strategies Questions to Nature of course must include observations and experiments Hintikka shows in fact how the logic of experimental inquiry can be understood from the interrogative vantage point Other important topics examined include induction in a forgotten sense that has nevertheless played a role in science explanation the incommensurability of theories theory ladenness of observations and identifiability

Inference, Explanation, and Other Frustrations John Earman,2023-07-28 These provocative essays by leading philosophers of science exemplify and illuminate the contemporary uncertainty and excitement in the field The papers are rich in new perspectives and their far reaching criticisms challenge arguments long prevalent in classic philosophical problems of induction empiricism and realism By turns empirical or analytic historical or programmatic confessional or argumentative the authors arguments both describe and demonstrate the fact that philosophy of science is in a ferment more intense than at any time since the heyday of logical positivism early in the twentieth century Contents Thoroughly Modern

Meno Clark Glymour and Kevin Kelly The Concept of Induction in the Light of the Interrogative Approach to Inquiry Jaakko Hintikka Aristotelian Natures and Modern Experimental Method Nancy Cartwright Genetic Inference A Reconsideration of David Hume's Empiricism Barbara D Massey and Gerald J Massey Philosophy and the Exact Sciences Logical Positivism as a Case Study Michael Friedman Language and Interpretation Philosophical Reflections and Empirical Inquiry Noam Chomsky Constructivism Realism and Philosophical Method Richard Boyd Do We Need a Hierarchical Model of Science Diderik Batens Theories of Theories A View from Cognitive Science Richard E Grandy Procedural Syntax for Theory Elements Joseph D Sneed Why Functionalism Didn't Work Hilary Putnam Physicalism Hartry Field This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1992 **The**

Discrete Charm of the Machine Ken Steiglitz, 2019-02-05 The genesis of the digital idea and why it transformed civilization A few short decades ago we were informed by the smooth signals of analog television and radio we communicated using our analog telephones and we even computed with analog computers Today our world is digital built with zeros and ones Why did this revolution occur The Discrete Charm of the Machine explains in an engaging and accessible manner the varied physical and logical reasons behind this radical transformation The spark of individual genius shines through this story of innovation the stored program of Jacquard's loom Charles Babbage's logical branching Alan Turing's brilliant abstraction of the discrete machine Harry Nyquist's foundation for digital signal processing Claude Shannon's breakthrough insights into the meaning of information and bandwidth and Richard Feynman's prescient proposals for nanotechnology and quantum computing Ken Steiglitz follows the progression of these ideas in the building of our digital world from the internet and artificial intelligence to the edge of the unknown Are questions like the famous traveling salesman problem truly beyond the reach of ordinary digital computers Can quantum computers transcend these barriers Does a mysterious magical power reside in the analog mechanisms of the brain Steiglitz concludes by confronting the moral and aesthetic questions raised by the development of artificial intelligence and autonomous robots The Discrete Charm of the Machine examines why our information technology the lifeblood of our civilization became digital and challenges us to think about where its future trajectory may lead **The**
Science of Pleasure Harvie Ferguson, 2005-09-29 In this rich and original work the author argues that science is the highest expression of bourgeois thought and whilst it may have liberated mankind it has also devised new forms of repression discipline and control

Reviewing **Genesis Of Quantum Theory 1899 1913**: Unlocking the Spellbinding Force of Linguistics

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