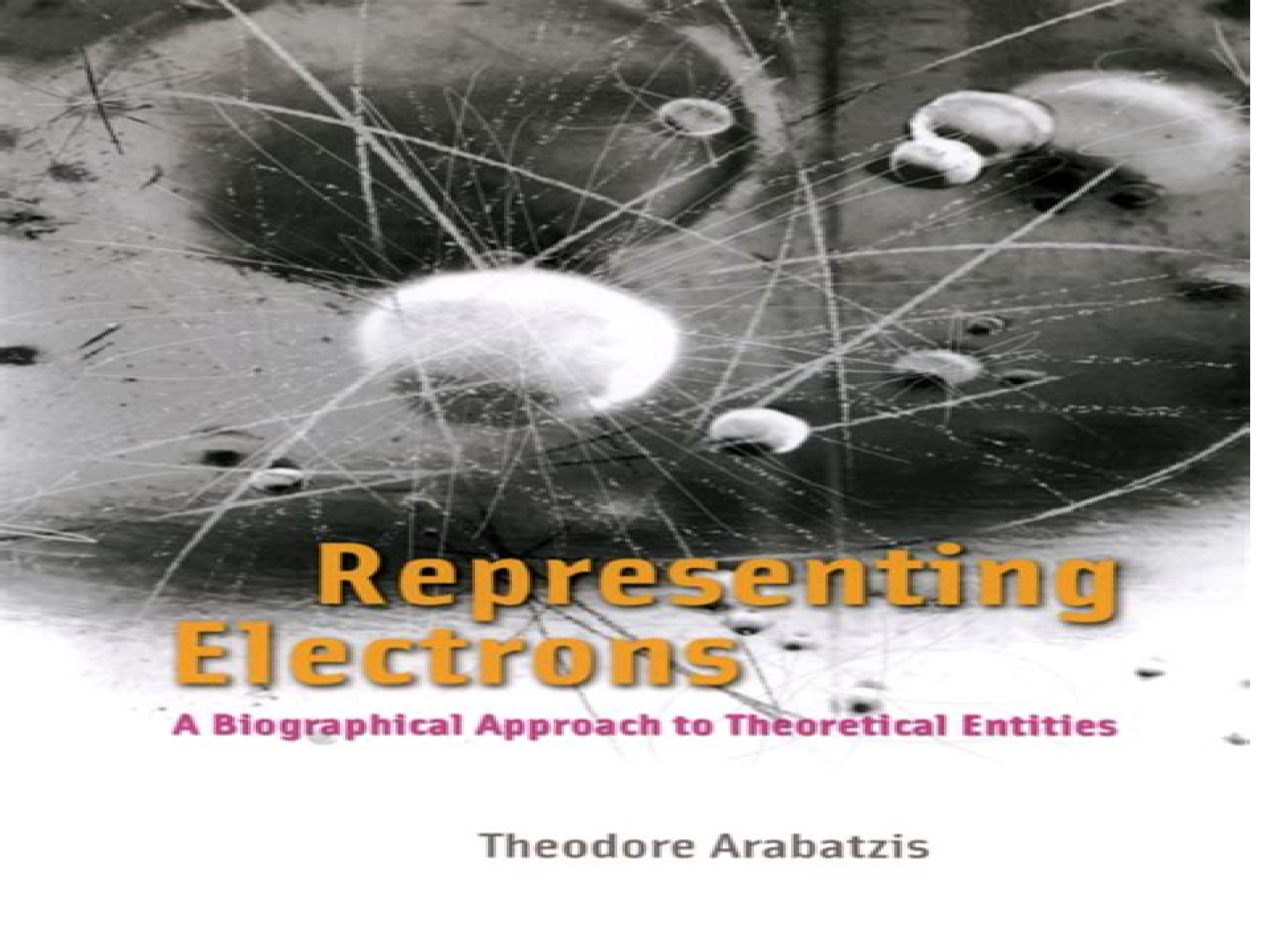


The background of the cover is a dark, textured surface, possibly a pool of water or a dark floor, with a bright, glowing sphere in the center. From this sphere, numerous thin, light-colored lines radiate outwards, creating a web-like pattern across the entire image. There are also some smaller, lighter-colored shapes scattered around the central sphere, possibly reflections or other objects.

Representing Electrons

A Biographical Approach to Theoretical Entities

Theodore Arabatzis

Representing Electrons A Biographical Approach To Theoretical Entities

Eric R. Scerri, Grant Andrew Fisher



Representing Electrons A Biographical Approach To Theoretical Entities:

Representing Electrons Theodore Arabatzis, 2006 Both a history and a metahistory *Representing Electrons* focuses on the development of various theoretical representations of electrons from the late 1890s to 1925 and the methodological problems associated with writing about unobservable scientific entities Using the electron or rather its representation as a historical actor Theodore Arabatzis illustrates the emergence and gradual consolidation of its representation in physics its career throughout old quantum theory and its appropriation and reinterpretation by chemists As Arabatzis develops this novel biographical approach he portrays scientific representations as partly autonomous agents with lives of their own Furthermore he argues that the considerable variance in the representation of the electron does not undermine its stable identity or existence Raising philosophical issues of contentious debate in the history and philosophy of science namely scientific realism and meaning change Arabatzis addresses the history of the electron across disciplines integrating historical narrative with philosophical analysis in a book that will be a touchstone for historians and philosophers of science and scientists alike

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Einstein Thomas Ryckman, 2017-05-18 Albert Einstein 1879 1955 was the most influential physicist of the 20th century Less well known is that fundamental philosophical problems such as concept formation the role of epistemology in developing and explaining the character of physical theories and the debate between positivism and realism played a central role in his thought as a whole Thomas Ryckman shows that already at the beginning of his career at a time when the twin pillars of classical physics Newtonian mechanics and Maxwell's electromagnetism were known to have but limited validity Einstein sought to advance physical theory by positing certain physical principles as secure footholds That philosophy produced his greatest triumph the general theory of relativity and his greatest failure an unwillingness to accept quantum mechanics This book shows that Einstein's philosophy grew from a lifelong aspiration for a unified theoretical representation encompassing all physical phenomena It also considers how Einstein's theories of relativity and criticisms of quantum theory shaped the course of 20th century philosophy of science Including a chronology glossary chapter summaries and suggestions for further reading Einstein is an ideal introduction to this iconic figure in 20th century science and philosophy It is essential reading for students of philosophy of science and is also suitable for those working in related areas such as physics history of science or intellectual history

Philosophical Perspectives in Quantum Chemistry Olimpia Lombardi, Juan Camilo Martínez González, Sebastian Fortin, 2022-05-16 This book explores the philosophy and the foundations of quantum chemistry It features chapters written by experts in the field The contributions analyze quantum chemistry as a discipline in particular its relation with both chemistry and physics from the viewpoint of realism and reduction Coverage includes such topics as quantum chemistry as an in between discipline molecular structure and quantum mechanics quantum chemical models and atoms and molecules in quantum chemistry The interest of this book is twofold First the contributions aim to update and refresh the discussions regarding the foundations of quantum chemistry Second they seek to develop new philosophical perspectives that this discipline can suggest to philosophers of science From its origins quantum chemistry filled a problematic position in the disciplinary space On the one hand it is a branch of theoretical chemistry On the other hand it appeals essentially to theoretical tools coming from physics This peculiar position triggered conceptual questions about its own identity Inside this book readers will find updated discussions on the foundations and the philosophy of this complex

discipline More Than Nothing Aaron Sidney Wright, 2024 Across decades and disciplines More than Nothing offers a scoping history of the vacuum as a lens into the development of modern physics

Quantum Puzzle, The: Critique Of Quantum Theory And Electrodynamics Barry R Clarke, 2017-04-27 In 1861 James Clerk Maxwell published Part II of his four part series On physical lines of force In it he attempted to construct a vortex model of the magnetic field but after much effort neither he nor other late nineteenth century physicists who followed him managed to produce a workable theory What survived from these attempts were Maxwell's four equations of electrodynamics together with the Lorentz force law formulae that made no attempt to describe an underlying reality but stood only as a mathematical description of the observed phenomena When the quantum of action was introduced by Planck in 1900 the difficulties that had faced Maxwell's generation were still unresolved Since then theories of increasing mathematical complexity have been constructed to attempt to bring the totality of phenomena into order with little success This work examines the problems that had been abandoned long before quantum mechanics was formulated in 1925 and argues that these issues need to be revisited before real progress in the quantum theory of the electromagnetic field can be made

Essays in the Philosophy of Chemistry Eric R. Scerri, Grant Andrew Fisher, 2016 The philosophy of chemistry has emerged in recent years as a new and autonomous field within the Anglo American philosophical tradition With the development of this new discipline Eric Scerri and Grant Fisher's *Essays in Philosophy of Chemistry* is a timely and definitive guide to all current thought in this field One of the themes of this collection is how philosophy of chemistry can make a contributions to problems of philosophy more generally such as how chemistry and quantum chemistry contribute to the philosophy of the mind

The Story of Western Science Susan Wise Bauer, 2015-04-27 A riveting road map to the development of modern scientific thought In the tradition of her perennial bestseller *The Well Educated Mind* Susan Wise Bauer delivers an accessible entertaining and illuminating springboard into the scientific education you never had Far too often public discussion of science is carried out by journalists voters and politicians who have received their science secondhand *The Story of Western Science* shows us the joy and importance of reading groundbreaking science writing for ourselves and guides us back to the masterpieces that have changed the way we think about our world our cosmos and ourselves Able to be referenced individually or read together as the narrative of Western scientific development the book's twenty eight succinct chapters lead readers from the first science texts by Hippocrates Plato and Aristotle through twentieth century classics in biology physics and cosmology *The Story of Western Science* illuminates everything from mankind's earliest inquiries to the butterfly effect from the birth of the scientific method to the rise of earth science and the flowering of modern biology Each chapter recommends one or more classic books and provides entertaining accounts of crucial contributions to science vivid sketches of the scientist writers and clear explanations of the mechanics underlying each concept *The Story of Western Science* reveals science to be a dramatic undertaking practiced by some of history's most memorable characters It reminds us that scientific inquiry is a human

pursuit an essential often deeply personal sometimes flawed frequently brilliant way of understanding the world The Story of Western Science is an entertaining and unique synthesis Times Higher Education a fluidly written narrative that celebrates the inexorable force of human curiosity Wall Street Journal and a bright informative resource for readers seeking to understand science through the eyes of the men and women who shaped its history Kirkus Previously published as The Story of Science

Pursuing the Unity of Science Harmke Kamminga, Geert Somsen, 2016-05-20 From 1918 to the late 1940s a host of influential scientists and intellectuals in Europe and North America were engaged in a number of far reaching unity of science projects In this period of deep social and political divisions scientists collaborated to unify sciences across disciplinary boundaries and to set up the international scientific community as a model for global political co operation They strove to align scientific and social objectives through rational planning and to promote unified science as the driving force of human civilization and progress This volume explores the unity of science movement providing a synthetic view of its pursuits and placing it in its historical context as a scientific and political force Through a coherent set of original case studies looking at the significance of various projects and strategies of unification the book highlights the great variety of manifestations of this endeavour These range from unifying nuclear physics to the evolutionary synthesis and from the democratization of scientific planning to the utopianism of H G Wells s world state At the same time the collection brings out the substantive links between these different pursuits especially in the form of interconnected networks of unification and the alignment of objectives among them Notably it shows that opposition to fascism using the instrument of unified science became the most urgent common goal in the 1930s and 1940s In addressing these issues the book makes visible important historical developments showing how scientists participated in and actively helped to create an interwar ideology of unification and bringing to light the cultural and political significance of this enterprise

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