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David C. Cassidy

How Mechanics Shaped the Modern World David H. Allen, 2023-09-28 This updated and augmented second edition covers the history of mechanics in such a way as to explain how this all-important discipline shaped our world. Like the first edition, Dr. Allen presents the material in an engaging, accessible manner, with many historic insights and thorough explanations of attending concepts. The text retains its coverage of classical mechanics, essentially Newtonian mechanics, and adds chapters on three additional topics that go well beyond classical mechanics: relativity, quantum/nanomechanics, and biomechanics.

Beyond Uncertainty David C. Cassidy, 2010-04-01 Exhaustively detailed yet eminently readable, this is an important book. Publishers Weekly, starred review Cassidy does not so much exculpate Heisenberg as explain him, with a transparency that makes this biography a pleasure to read. Los Angeles Times Well crafted and readable . . . [Cassidy] provides a nuanced and compelling account of Heisenberg's life. The Harvard Book Review In 1992, David C. Cassidy's groundbreaking biography of Werner Heisenberg, *Uncertainty*, was published to resounding acclaim from scholars and critics. Michael Frayn, in the Playbill of the Broadway production of *Copenhagen*, referred to it as one of his main sources and "the standard work in English." Richard Rhodes (*The Making of the Atom Bomb*) called it "the definitive biography of a great and tragic physicist," and the Los Angeles Times praised it as "an important book. Cassidy has sifted the record and brilliantly detailed Heisenberg's actions." No book that has appeared since has rivaled *Uncertainty*, now out of print, for its depth and rich detail of the life, times, and science of this brilliant and controversial figure of twentieth-century physics. Since the fall of the Soviet Union, long-suppressed information has emerged on Heisenberg's role in the Nazi atomic bomb project. In *Beyond Uncertainty*, Cassidy interprets this and other previously unknown material within the context of his vast research and tackles the vexing questions of a scientist's personal responsibility and guilt when serving an abhorrent military regime. David C. Cassidy is the author of *J. Robert Oppenheimer and the American Century*, *Einstein and Our World*, and *Uncertainty*.

Nuclear Physics W. Heisenberg, 2019-05-07 The Nobel Prize-winning physicist offers a fascinating popular introduction to nuclear physics from early atomic theory to its transformative applications. Theoretical physicist Werner Heisenberg is famous for developing the uncertainty principle, which bears his name, and for his pioneering work in quantum mechanics. A central figure in the development of the atomic bomb and a close colleague of Albert Einstein, Heisenberg wrote *Nuclear Physics* "for readers who, while interested in natural sciences, have no previous training in theoretical physics." Compiled from a series of his lectures on the subject, Heisenberg begins with a short history of atomic physics before delving into the nature of nuclear forces and reactions, the tools of nuclear physics, and its world-changing technical and practical applications. *Nuclear Physics* is an ideal book for general readers interested in learning about some of the most significant scientific breakthroughs of the twentieth century.

Steps Beyond the Horizon - Werner Heisenberg Werner Heisenberg,

Fundamental Physics — Heisenberg and Beyond Gerd W. Buschhorn, Julius Wess, 2012-12-06 Presents two essays commemorating Werner Heisenberg's 100th birthday, which are complemented by a short and nicely illustrated biographical note in the appendix. In the second part, the reader will find a spectrum of articles devoted to important developments in central areas of research by authors are outstanding scientists. Contributions on modern developments by eminent physicists such as Anton Zeilinger, Julius Weiss, Elliott Lieb, Michael Peskin, Jürg Frölich, Alan Watson, and others.

Encounters with Einstein Werner Heisenberg, 1989-10-21 In nine essays and lectures composed in the last years of his life, Werner Heisenberg offers a bold appraisal of the scientific method in the twentieth

century--and relates its philosophical impact on contemporary society and science to the particulars of molecular biology, astrophysics, and related disciplines. Are the problems we define and pursue freely chosen according to our conscious interests? Or does the historical process itself determine which phenomena merit examination at any one time? Heisenberg discusses these issues in the most far-ranging philosophical terms, while illustrating them with specific examples.

Gaseous Ion Mobility, Diffusion, and Reaction Larry A. Viehland, 2018-12-19 This book is about the drift, diffusion, and reaction of ions moving through gases under the influence of an external electric field, the gas temperature, and the number density. While this field was established late in the 19th century, experimental and theoretical studies of ion and electron swarms continue to be important in such varied fields as atomic and molecular physics, aeronomy and atmospheric chemistry, gaseous electronics, plasma processing, and laser physics. This book follows in the rigorous tradition of well-known older books on the subject, while at the same time providing a much-needed overview of modern developments with a focus on theory. Graduate students and researchers new to this field will find this book an indispensable guide, particularly those involved with ion mobility spectrometry and the use of ion transport coefficients to test and improve *ab initio* ion-neutral interaction potentials. Established researchers and academics will find in this book a modern companion to the classic references.

Einstein and Heisenberg Konrad Kleinknecht, 2019-02-13 This is a fascinating account of two great scientists of the 20th century: Einstein and Heisenberg, discoverers, respectively, of the theory of relativity and quantum mechanics. It connects the history of modern physics to the life stories of these two extraordinary physicists. These discoveries laid the foundation of modern physics, without which our digitized world of computers, satellites, and innovative materials would not be possible. This book also describes in comprehensible terms the complicated science underlying the two discoveries. The twin biography highlights the parallels and differences of these two luminaries, showing how their work shaped the 20th century into the century of physics.

Uncertainty Principle of Werner Heisenberg IntroBooks Team, Quantum mechanics is widely considered to be the scientific theory that is one's best choice for the fundamental and universal explanation of the physical world. The conceptual structure used in this theory varies dramatically from that of classical physics. After all, the transition from classical to quantum physics is a true revolution in people's understanding of the physical universe. One striking feature of the distinction between classical and quantum physics is that while classical mechanics assumes that precise simultaneous values can be assigned to all physical quantities, quantum mechanics, on the other hand, rejects this possibility, the classic example being the momentum and position of a particle.

The Geometry of Heisenberg Groups Ernst Binz, Sonja Pods, 2008 The three-dimensional Heisenberg group, being a quite simple non-commutative Lie group, appears prominently in various applications of mathematics. The goal of this book is to present basic geometric and algebraic properties of the Heisenberg group and its relation to other important mathematical structures (the skew field of quaternions, symplectic structures, and representations) and to describe some of its applications. In particular, the authors address such subjects as signal analysis and processing, geometric optics, and quantization. In each case, the authors present necessary details of the applied topic being considered. This book manages to encompass a large variety of topics being easily accessible in its fundamentals. It can be useful to students and researchers working in mathematics and in applied mathematics.--BOOK JACKET.

Werner Heisenberg David C. Cassidy, Martha Baker, 1984

Inner Exile E. Heisenberg, 1984-01-01

Heisenberg's 1958 Weltformel and the Roots of Post-Empirical Physics Alexander S. Blum,2019-05-14

This book presents the first detailed account of Werner Heisenberg's failed attempt to find a theory of everything in the autumn of his career. It further investigates what we can learn from his failure in relation to the search for a final theory of physics, an endeavour that continues to define research in fundamental physics to this day. Thereby it provides the first historically informed contribution to the current debate on post-empirical physics and the state of particle physics.

Uncertainty David Lindley,2008-02-12 The gripping, entertaining, and vividly-told narrative of a radical discovery that sent shockwaves through the scientific community and forever changed the way we understand the world. Werner Heisenberg's "uncertainty principle" challenged centuries of scientific understanding, placed him in direct opposition to Albert Einstein, and put Niels Bohr in the middle of one of the most heated debates in scientific history. Heisenberg's theorem stated that there were physical limits to what we could know about sub-atomic particles; this "uncertainty" would have shocking implications. In a riveting and lively account, David Lindley captures this critical episode and explains one of the most important scientific discoveries in history, which has since transcended the boundaries of science and influenced everything from literary theory to television.

The Physical Principles of the Quantum Theory Werner Heisenberg,2013-04-15 Nobel Laureate discusses quantum theory, uncertainty, wave mechanics, work of Dirac, Schroedinger, Compton, Einstein, others. An authoritative statement of Heisenberg's views on this aspect of the quantum theory. — Nature.

Uncertainty David C. Cassidy,1993-08-15 Werner Heisenberg's genius and his place at the forefront of modern physics are unquestioned. His decision to remain in Germany throughout the Third Reich and his role in Hitler's atomic bomb project are still topics of heated debate. UNCERTAINTY is David Cassidy's compelling portrait of this brilliant, ambitious, and controversial scientist. It is the definitive Heisenberg biography, as well as a striking evocation of the development of quantum physics, the rise of Nazism, and the dawn of the atomic age.

Heisenberg and the Interpretation of Quantum Mechanics Kristian Camilleri,2011-09-15 Werner Heisenberg was a pivotal figure in the development of quantum mechanics in the 1920s, and also one of its most insightful interpreters. Together with Bohr, Heisenberg forged what is commonly known as the 'Copenhagen interpretation'. Yet Heisenberg's philosophical viewpoint did not remain fixed over time, and his interpretation of quantum mechanics differed in several crucial respects from Bohr's. This book traces the development of Heisenberg's philosophy of quantum mechanics, beginning with his positivism of the mid-1920s, through his neo-Kantian reading of Bohr in the 1930s, and culminating with his 'linguistic turn' in the 1940s and 1950s. It focuses on the nature of this transformation in Heisenberg's thought and its wider philosophical context, which have up until now not received the attention they deserve. This new perspective on Heisenberg's interpretation of quantum mechanics will interest researchers and graduate students in the history and philosophy of twentieth-century physics.

Philosophical Problems of Quantum Physics Werner Heisenberg,1979

Victory and Vexation in Science Gerald Holton,Holton,2005-05-30 This book shows why at any given time there exists no single scientific "paradigm," but rather a spectrum of competing perspectives. Considering conflicts between Heisenberg and Einstein, Bohr and Einstein, and P. W. Bridgman and B. F. Skinner, Holton demonstrates a masterly understanding of modern science and how it influences our world.

On Modern Physics Werner Heisenberg,1961

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