

PAULI LECTURES ON PHYSICS
VOLUME 5

Wave Mechanics

Wolfgang Pauli



Pauli Lectures On Physics Vol 5 Wave Mechanics

Ian W. Knowles, Yoshimi Saito



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Weisskopf notes in the Foreword to the series Pauli's style is commensurate to the greatness of its subject in its clarity and impact. Pauli's lectures show how physical ideas can be presented clearly and in good mathematical form without being hidden in formalistic expertise. Alone or as part of the complete set, this volume represents a peerless resource invaluable to individuals, libraries, and other institutions.

Making Sense of Quantum Mechanics Jean Bricmont, 2016-01-12 This book explains in simple terms with a minimum of mathematics why things can appear to be in two places at the same time, why correlations between simultaneous events occurring far apart cannot be explained by local mechanisms, and why nevertheless the quantum theory can be understood in terms of matter in motion. No need to worry as some people do whether a cat can be both dead and alive, whether the moon is there when nobody looks at it, or whether quantum systems need an observer to acquire definite properties. The author's inimitable and even humorous style makes the book a pleasure to read while bringing a new clarity to many of the longstanding puzzles of quantum physics.

Quantum Mechanics K. Kong Wan, 2019-07-09 The mathematical formalism of quantum theory in terms of vectors and operators in infinite dimensional complex vector spaces is very abstract. The definitions of many mathematical quantities used do not seem to have an intuitive meaning, which makes it difficult to appreciate the mathematical formalism and understand quantum mechanics. This book provides intuition and motivation to the mathematics of quantum theory, introducing the mathematics in its simplest and familiar form, for instance with three dimensional vectors and operators which can be readily understood. Feeling confident about and comfortable with the mathematics used helps readers appreciate and understand the concepts and formalism of quantum mechanics. This book is divided into four parts. Part I is a brief review of the general properties of classical and quantum systems. A general discussion of probability theory is also included, which aims to help in understanding the probability theories relevant to quantum mechanics. Part II is a detailed study of the mathematics for quantum mechanics. Part III presents quantum mechanics in a series of postulates. Six groups of postulates are presented to describe orthodox quantum systems. Each statement of a postulate is supplemented with a detailed discussion. To make them easier to understand, the postulates for discrete observables are presented before those for continuous observables. Part IV presents several illustrative applications which include harmonic and isotropic oscillators, charged particle in external magnetic fields, and the Aharonov-Bohm effect. For easy reference, definitions, theorems, examples, comments, properties, and results are labelled with section numbers. Various symbols and notations are adopted to distinguish different quantities explicitly and to avoid misrepresentation. Self-contained both mathematically and physically, the book is accessible to a wide readership including astrophysicists, mathematicians, and philosophers of science who are interested in the foundations of quantum mechanics.

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