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ADVANCED MATHEMATICS FOR SCIENTISTS AND ENGINEERS, SCHAUM'S OUTLINE OF THEORY AND PROBLEMS. MURRAY R. SPIEGEL, 1971. *Monographic Series* Library of Congress, **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

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