
Quantum Mechanics

In his new book which consists of five parts in addition to a preface and a chapter of introduction, Professor Lande has given what must be acknowledged as a clear and concise discussion of the principles of quantum mechanics. In the preface is stated the general purpose of the work and acknowledgment is made to the sources (especially Heisenberg's "The Physical Principles of the Quantum Theory") from which certain of the illustrations are drawn. Part I is expended to the elementary theory of observation or the principle of complementarity and use of the principle is made to obtain the laws of quantum mechanics. Part II concerns itself with Heisenberg's uncertainty principle, while Part III is devoted to the principle of interference and to the equation of Schrödinger. The fourth part gives a development of the transformation theory as applied to quantum mechanics and considers the relation of the quantum mechanics to classical mechanics. In the mathematical appendix which constitutes Part V, the author treats the invariance of the matrix elements of quantum mechanics to canonical and unitary transformations.

Because of simplicity and clarity of style, Lande's "Principles of Quantum Mechanics" can enthusiastically be recommended to students who desire to obtain a knowledge of the underlying principles of the theory.—*H. H. Nielsen.*

Principles of Quantum Mechanics, by Alfred Lande. xii+117 pp. New York, The Macmillan Co., 1937. \$2.25.