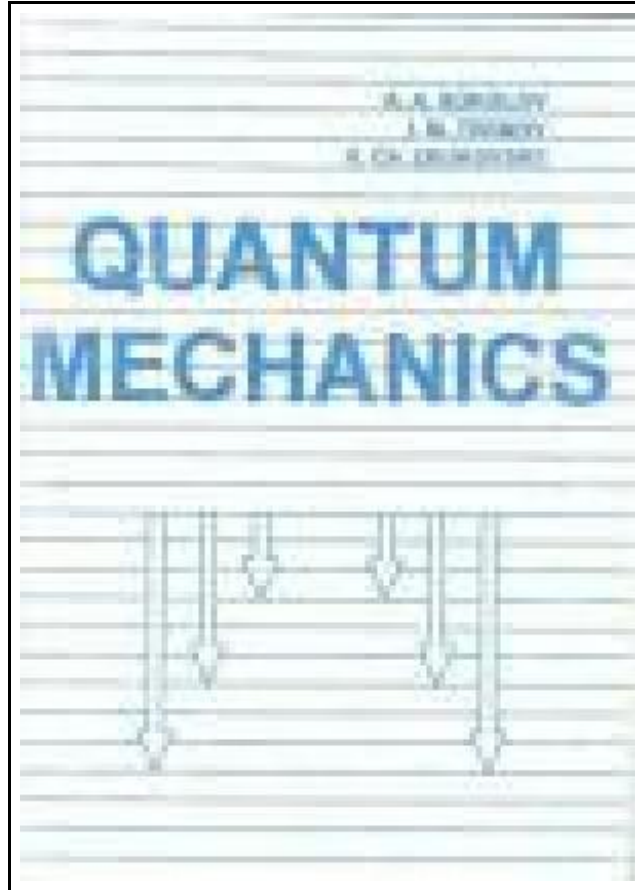


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Reviews

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(Kevin Bergstrom Sr.)

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Editorial URSS, 1994. soft. Condition: New. Encuadernación: Cartoné. This book is based on a series of lectures delivered by the authors at the Moscow State University over many years. It provides a systematic analysis of the theoretical concepts of quantum mechanics and some of its applications. Quantum mechanics, whose basic laws were formulated between the years 1925 and 1928, is one of the most important branches of modern theoretical physics. It investigates the behaviour of electrons and other microparticles in atoms, molecules, solids, as well as in external electromagnetic fields. The development of quantum mechanics took place in several stages. The first stage is associated with the accumulation of experimental facts concerning thermal electromagnetic radiation, photoelectric effect, the Compton effect, etc. These facts were not compatible with classical electrodynamics, and in order to explain them it was postulated that besides having a wavelike nature, light must also have corpuscular properties. This assumption was used in the quantum theory of Planck and Einstein. Rutherford's experiments on the scattering of alpha-particles in matter formed the basis of Bohr's semiclassical theory of an atom. This marked the beginning of the second stage in the development of quantum mechanics. Finally, the third stage began with the observation of a number of experimental facts (diffraction and interference of electron beams) which were associated with the corpuscular and wave properties of electrons. Schrodinger's equation (1926), which was an extension of the de Broglie hypothesis on electron waves, was the first general result taking into account the wave properties of microparticles. Earlier, in 1925, the quantum theory of atom was formulated by Heisenberg in the form of matrix mechanics. Thus, while in the classical theory light was treated as a wave and electron was considered as a particle, this distinction was removed in quantum mechanics and it..



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