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AbstractAbstract

[en] History of quantum theory from quantum representations (1900) to the formation of quantum mechanics is systematically stated in the monograph. A special attention is paid to the development of ideas of quantum physics, given are schemes of this development. Quantum theory is abstractly presented as the teaching about a role, which value h characterizing elementary quantum of action, plays in the nature: in statistics - as a unit for calculating the number of possible states; in corpuscular-wave dualism for light - as a value determining the interaction of light and substance and as a component of atom dynamics; in corpuscular-wave dualism for substance. Accordingly, history of the quantum theory development is considered in the following sequence: h discovery; history of quantum statistics, history of light quanta and initial atom dynamics; crisis of this dynamics and its settlement; substance waves and in conclusion - the completion of quantum mechanics including applications and its further development

Original Title

Istoriya kvantovoj teorii

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[CLASSICAL AND QUANTUM MECHANICS, GENERAL PHYSICS \(A1100\)](#)

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1980; 244 p; Naukova Dumka; Kiev; 256 refs.; 32 figs.

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