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# On the Quantum Theory of Line-Spectra, Vol. 1 (Classic Reprint)

By Niels Henrik David Bohr

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from On the Quantum Theory of Line-Spectra, Vol. 1 In an attempt to develop certain outlines of a theory of line-spectra based on a suitable application of the fundamental ideas introduced by Planck in his theory of temperature-radiation to the theory of the nucleus atom of Sir Ernest Rutherford, the writer has shown that it is possible in this way to obtain a simple interpretation of some of the main laws governing the linespectra of the elements, and especially to obtain a deduction of the well known Balmer formula for the hydrogen spectrum. The theory in the form given allowed of a detailed discussion only in the case of periodic systems, and obviously was not able to account in detail for the characteristic difference between the hydrogen spectrum and the spectra of other elements, or for the characteristic effects on the hydrogen spectrum of external electric and magnetic fields. Recently, however, a way out of this difficulty has been opened by Sommerfeld who, by introducing a suitable generalization of the theory to a simple type of...



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