



The Astrophysical Journal, Vol. 48: An International Review of Spectroscopy and Astronomical Physics (Classic Reprint) (Paperback)

By George E Hale

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English Brand New Book ***** Print on Demand *****. Excerpt from The Astrophysical Journal, Vol. 48: An International Review of Spectroscopy and Astronomical Physics In a paper published in the Astrophysical Journal of November, 1916 (44, 201-209), the present writer was able to show that on the assumption that radiating electrons are revolving in elliptical or circular orbits about a central positive charge with velocities such that the photo-electric equation $1/2mv^2 = hv$ applies to them, their orbital radii may be computed, and that these radii bear a linear relation to the corresponding atomic radii computed from other considerations. In a paper on The Nuclear Charges of Atoms, published in the Physical Review of May, 1917 (9,383), it was shown that on the same assumptions regarding the electrons which emit X-rays it is possible to compute the nuclear charges of the radiating atoms by means of Moseley's equations for X-ray frequency, and that these charges are, as suggested by van den Broek, simple multiples of the unit electrical charge. It is the purpose of the present paper to discuss the spectral series of hydrogen on the same...



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