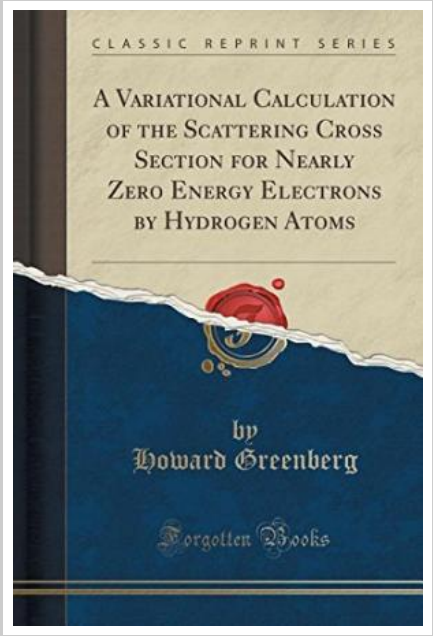



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# A Variational Calculation of the Scattering Cross Section for Nearly Zero Energy Electrons by Hydrogen Atoms (Classic Reprint) (Paperback)

By Howard Greenberg

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Variational Calculation of the Scattering Cross Section for Nearly Zero Energy Electrons by Hydrogen Atoms The scattering of low-energy electrons by atomic systems is of some interest as one of the fundamental processes which occur in ionospheric and astrophysical phenomena. More detailed knowledge of the scattering process would also be of great aid in understanding certain aspects of gas discharges. The simplest case of this sort is the scattering of electrons by hydrogen atoms. Measurements of the cross section for this system have been made by Bederson in the energy range above 2 volts. However, experiments for the energy range from zero electron energy to thermal energy, a range of practical interest, are extremely difficult to carry out. At present there exists no data for this energy range. In order to gain some knowledge of the low-energy scattering it is necessary to carry out a theoretical calculation. The problem of the scattering of electrons by hydrogen atoms is a three-body problem and thus not amenable to exact solution. One is therefore compelled to seek...

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