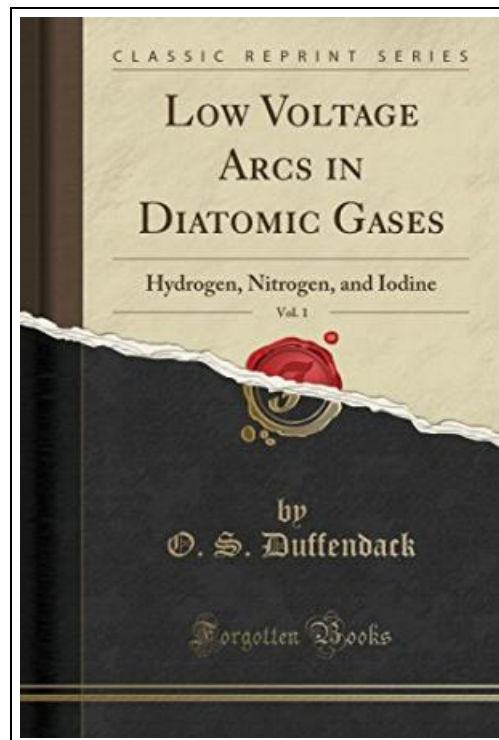


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Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Low Voltage Arcs in Diatomic Gases, Vol. 1: Hydrogen, Nitrogen, and Iodine The reason for the failure of Richardson s equation was investigated by Langmuir,¹ and it was found to be due to the effect of the space charge of the emitted electrons. If no electrons are emitted by the filament, the potential will vary linearly between the electrodes. When electrons are emitted and, under the influence of the field, pass over to the anode, they form an electric current and build up a space charge. The potential gradient will no longer be uniform between the electrodes but will be less near the filament on account of the concentration of electrons there. These electrons will repel one another and so will impede those just being emitted by the filament. As the speed of an electron is proportional to the potential gradient, there will be a diminution of the average velocities of the electrons near the filament and a resulting increase in concentration. This results in increased impedance until finally. The space charge becomes so great that the potential gradient becomes zero or even negative. An equilibrium condition will be reached in which the electrons emitted with velocity components parallel to the electric intensity below a certain amount will be stopped and driven back to the filament. There can then be no further increase in current at the prevailing temperature of filament and potential applied. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in...

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