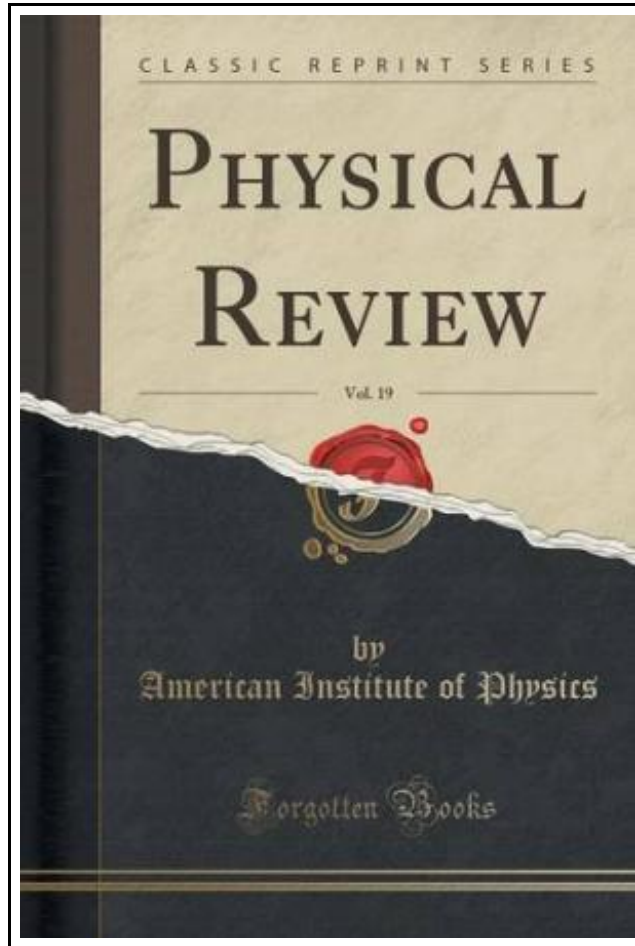


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Physical Review, Vol. 19** The passage of electricity from a metal to a gas or from a gas to a metal occurs in a manner not yet well understood. The present investigation was undertaken to determine what conditions of the metal or gas favor the transfer of electricity from one to the other and if possible to throw some light on the mechanism of surface condition. While the results here presented are crude, they bear directly on the theory of metal-gas conduction and the method, though very simple, is believed to be new. The work suggested itself during some spectroscopic work with Plucker tubes. If we use a direct current in studying the electrode drop in potential, we are confronted by the great difficulty in keeping the condition of the surface, temperature, pressure, etc., constant and in reproducing these conditions in successive tests. But if we use an alternating current of a maximum voltage just a little above the maximum total drop in potential between electrodes, conditions cannot appreciably change between successive alternations and the excess of current in one direction may be taken as a rough measure of the relative surface conductivity at the two electrodes. It is hardly conceivable that there can be any rectifying effect due to the gas itself away from the electrodes, for this would require not only molecular or atomic dissymmetry but a fixed orientation of these particles. 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...



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