



Transactions of the American Electrochemical Society Volume 14

By American Electrochemical Society

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1908 Excerpt: .30 volts. This potential fall is necessary to impart to the ion an energy sufficiently great so that it can bring about ionisation of the neutral molecule by impact. The accompanying curve or characteristic, Fig. I, shows the relation between these different currents as they appear on increasing the e. m. f. from zero, providing that a sufficiently great resistance is in the circuit. If an external ionizer is used, for example Roentgen rays, it is seen at first as shown in the figure that the current increases with increasing potential till a maximum is reached, while the ionisation by impact of the ions brought about by still greater potential difference appears first near the electrodes which are accordingly surrounded by a mantle of light. The middle or intervening stretch of gas remains dark. The characteristic now shows an increase in the current due to the...



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