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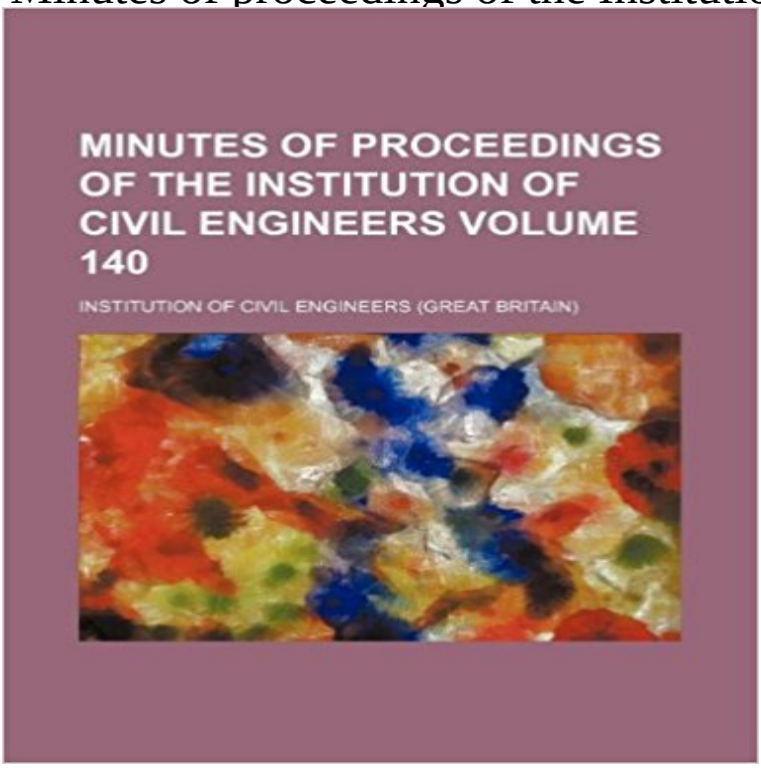

This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1900 Excerpt: ...and that this density for a given internal pressure is greater with a well-rounded inlet than with a nozzle having a sharp inner edge. This accounts at once for the most conspicuous feature of this set of velocity curves, viz., that up to a pressure of about 80 lbs. per square inch the greatest velocity is attained by a jet from an orifice in a thin plate and that above 100 lbs. per square inch Iib, having a sharp inlet, gives a greater velocity than II, which has a rounded inlet and the same outlet. Apparently a rounded inlet admits a greater weight of steam to the narrowest section than the orifice or nozzle can deal with efficiently. The advantage of I over Iia thus arises from its smaller discharge, the smaller quantity of steam being able to expand with greater freedom and consequently to develop a greater velocity than the denser steam issuing from Iia. From the point of view of the kinetic energy developed per pound of steam, the velocity curves may be taken to represent the efficiency of the various nozzles. The effect of a sharp inlet is then to reduce the density of the steam at the narrowest section, and hence less steam is passed, but the steam that does pass is fully or almost fully expanded, and hence, though the discharge is reduced, the efficiency is increased. In consequence of this conclusion all the later nozzles were designed with an inner edge only slightly rounded off. The curves in Fig. 11, though they do not actually become horizontal within the range of the experiments, appear to be asymptotic to horizontal lines, but they do not entirely exclude an inclined asymptote. On comparing the nozzle No. Iib with those in actual use on Laval turbines, it was found to lie midway

between extremes. The Author therefore ...

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