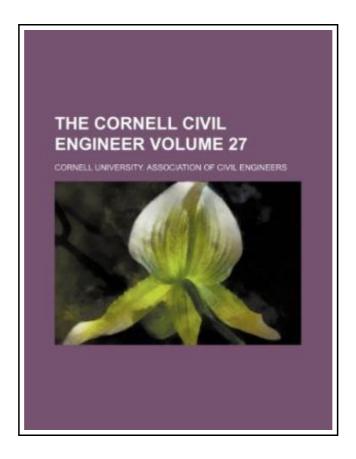
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Reviews

Very good e-book and helpful one. It is among the most awesome publication we have read. Its been developed in an remarkably simple way in fact it is simply right after i finished reading this book through which basically transformed me, affect the way i really believe.

(Prof. Kacey O'Hara)

THE CORNELL CIVIL ENGINEER VOLUME 27



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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. 1919 Excerpt: .approximate the shape of a funnel with the smallest diameter where the head is the highest. In other cases it is found economical to make the upper part--the part under the low head-consist of concrete or staves and the remainder of steel. The determination of the economical pipe now reduces to the determination of the diameters of the several sections and the problem may not be an easy one. The method of procedure suggested for the case of a pipe of constant diameter throughout, is no longer applicable. While considerable latitude is left to the designer it is nevertheless important to be able to determine what the theoretically economical diameters of the several sections are. In 1907, A. L. Adams proposed a principle for the design of a penstock that seemed to him self-evident. This principle may be stated as follows: That pipe is most economically designed for which the interest and depreciation on first cost of the pipe plus the annual value of the power lost due to friction in the pipe is a minimum. This principle of economy seems simple and logical and it is referred to in nearly every discussion on the economical size of penstock. Frequently, formulas for the economical diameter are derived from it. For the case of riveted steel, Professor D. W. Mead (Mead s Water Power Engineering, 2d edition, page 546) derives two formulas: (1) d = 0.2153 V-Z--for high head cih and 6!fta3 (2) d = 0.2105 H--L-for...

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