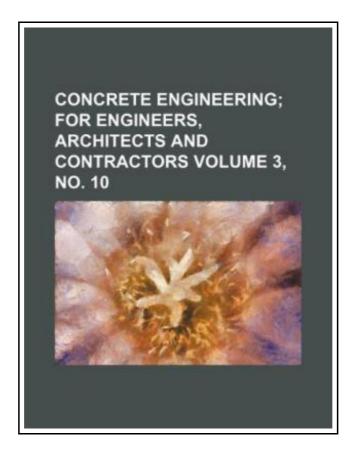
Concrete Engineering Volume 3, No. 10; For Engineers, Architects and Contractors



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CONCRETE ENGINEERING VOLUME 3, NO. 10; FOR ENGINEERS, ARCHITECTS AND CONTRACTORS



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: . reinforced concrete is presented in the construction of penstocks for the conveying of water, frequently under considerable head. A recent investigation conducted by Mr. Leonard C. Wason, President of the Aberthaw Construction Co. of Boston, throws an interesting light upon the subject. He was particularly anxious to learn whether expansion joints would be necessary with this form of construction. Literature upon concrete construction was carefully scanned as regards authoritative statements. A typical competent authority for the theory stated that reinforced concrete can be built of indefinite length if properly reinforced, and be free from shrinkage, owing to temperature and settling stresses. Not content, however, with such a general statement, Mr. Wason sought the personal opinions and experiences of various engineers. Their replies are interesting as they are varied. An engineer experienced in concrete and hydraulic work showed a drawing of penstock of curved section with flat base, laid out for continuous reinforcement from end to end without expansion joints. He emphasized the necessity of standpipes for taking care of water hammer, air pressure and vacuum. After careful investigation he stated his belief that a penstock without joints but of proper shape with sufficient longitudinal reinforcement is practical and would prove satisfactory. A leading consulting engineer stated that he had reported adversely on a proposition for building a 300-ft. reinforced concrete penstock. He was afraid of seepage and freezing. An engineer experienced in government work believes that if properly designed a penstock could be built of...

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