



Experimental Researches on the Strength and Other Properties of Cast Iron; With the Development of New Principles; Calculations Deduced from Them; And Inquiries Applicable to Rigid and Tenacious Bodies Generally

By Eaton Hodgkinson

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1846 edition. Excerpt: .Association of Science, fifth Report,) that the conclusions of Tredgold (art. 304), with respect to a modulus of resilience, applicable so long as the elasticity was uninjured, might be extended to the breaking point in cast iron. 2nd. Uses of the Table.--These are numerous, but two only of the most common will be mentioned. If b and d be the breadth and depth of a rectangular beam in inches, l the distance between the supports in feet, w the breaking weight in lbs., w any other weight, d its deflexion, and m the modulus of elasticity in lbs., for a square inch: putting 4-5 for the distance 4 feet 6 inches, above, we have $4-5-X b d^2 \text{ } \$$ (The value of being taken from the Table m b d³ d f (Part I. art. 256,) the value of the modulus m...



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