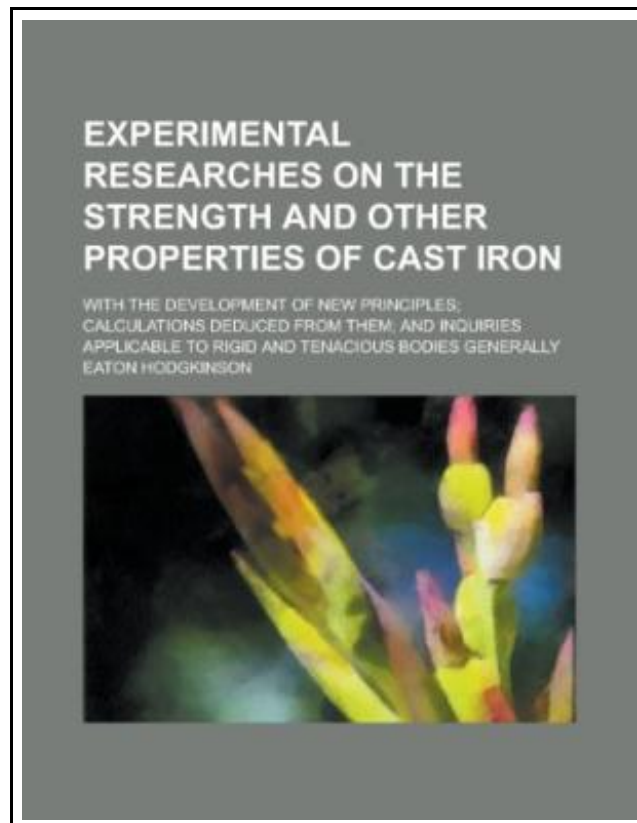


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Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free 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 $4.5 \times b \times d^2 \div ($ The value of being taken from the Table $m \times b \times d^3 \div f$ (Part I. art. 256,) the value of the modulus $m \div 432 \div$ being obtained from the Table. 99. In all the preceding experiments on rectangular bars, the defect of elasticity, measured by the deflexion remaining in the bar after the load had been removed, was observed, for reasons previously given (arts. 86, 92); and to show the law which regulates this defect, its value, with equal additions of weight, will be collected from the mean results upon each iron, and placed under the corresponding weights in the following Table. above. DEFECT OF ELASTICITY. 100. Defect of elasticity, or set, as obtained from the mean deflexion of bars cast from models...



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