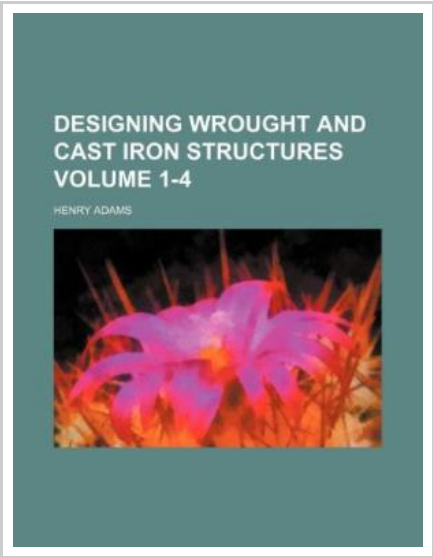

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Designing Wrought and Cast Iron Structures Volume 1-4

By Henry Adams

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. 1883 Excerpt: .adopted a modulus which is 18 times the load required to break a bar of 1 sq. in. in section, supported on two points 1 ft. apart, and loaded in the middle between the supports, viz.: C = wrot. iron 42,000 lbs. cast iron 40,000 lbs. According to the experiments tabulated by Box (Strength of Materials, p. 192), a higher value than this would be proper for wrot. iron and lower for cast. His notes would give the modulus of rupture for flanged beams of wrot. iron as C = 57600 lbs. MOMENT OF RESISTANCE. The moment of resistance (R) of a section is the modulus, of the section x the modulus of rupture, B = Z C. CO-EFFICIENT OF REACTION. The co-efficient of reaction (k) depends upon the position of the load and mode of supporting girder, as explained in the author-s Strains in Ironwork,...

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