



Notes on the Strenth of Material and the Stability of Structures

By W M Gillespie

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. 1870 Excerpt: .83. The strength of wrought iron plates acting as struts, varies approximately as their width and as the cube of their thickness, and inversely as the square of their height or length; corresponding to formulas 31 and 32. To calculate the strength of struts, having the form of angle iron, T iron or double T iron, apply Gordon s formula 40, calling the thickness in the weakest direction; i. e., the direction in which it will give way, and considering separately the various parts into which it will be divided by planes parallel to that in which it would bend, for example, parallel to A B in Fig. 28. Fig; 28. Example. Length 8 . For A B a = 1.80 square inches; for G D a = 2.4 x.6 = 1.44 square inch, t--0.6. By Gordon s formula W = 53,748 pounds. 3D Actual breaking...



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