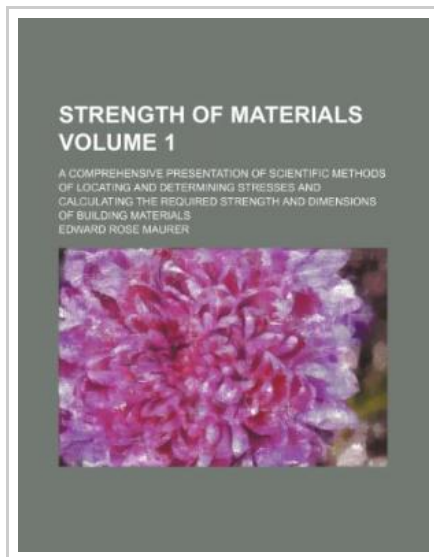




DOWNLOAD



Strength of Materials Volume 1; A Comprehensive Presentation of Scientific Methods of Locating and Determining Stresses and Calculating the Required Strength and Dimensions of Building Materials (Paperback)

By Edward Rose Maurer

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. 1917 Excerpt: .stress there. Then, since the unit-stresses in a cross-section are proportional to the distances from the neutral axis, $\frac{S}{S_c} = \frac{y}{y_c}$, $\frac{S}{S_c} = \frac{y}{y_c}$ If the remotest fibre is on the convex side of the beam, S is tensile and S_c compressive; if the remotest fibre is on the concave side, S is compressive and S_c tensile. Examples. 1. A beam 10 feet long is supported at its ends, and sustains a load of 4,000 pounds two feet from the left end (Fig. 37, a). If the beam is 4 X 12 inches in cross-section (the long side vertical as usual), compute the maximum tensile and compressive unit-stresses. The section modulus of a rectangle whose base and altitude are b and a respectively (see Table A, page 52), is $\frac{1}{6}ba^2$; hence, for the beam under consideration, the modulus is $\frac{1}{6} \times 4 \times 12^2 = 96$ inches²,...



READ ONLINE
[5.01 MB]

Reviews

The most effective publication i at any time read. We have study and i am sure that i will likely to read yet again once again in the foreseeable future. You will not truly feel monotony at anytime of your time (that's what catalogs are for about in the event you request me).

-- Mr. Rafael Hoeger

The best publication i ever study. It is really basic but unexpected situations within the fifty percent of your publication. Your lifestyle period is going to be enhance as soon as you total reading this article publication.

-- Ashton Kassulke