



## Transactions of the American Society of Civil Engineers Volume 24

By American Society of Civil Engineers

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. 1891 Excerpt: .the truss loaded at the upper apex with 2 tons, giving vertical reactions of 1 ton each, with a supposed perfect roller under one end. The stress under this load in bar CD will be called  $s$ , in bars CB or BD  $s_2$ , in bars AC or AD , and in bar AB  $s_t$ , the bars symmetrical with respect to the center having the same stress. Then regarding all stresses as tensions, we can deduce the following equations by noting that the sum of the horizontal and vertical components of the forces acting at C are separately equal to zero, and by balancing the vertical components of the stresses in the bars meeting at B.,500 1000.  $1 + rn8-2 + iii = 0-(1$  From these three equations we derive: 500. rfs, 500 1118 1414 2 236 1000-jfe4 1000 S 1 118 S. -ds2--1118 We have thus...



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