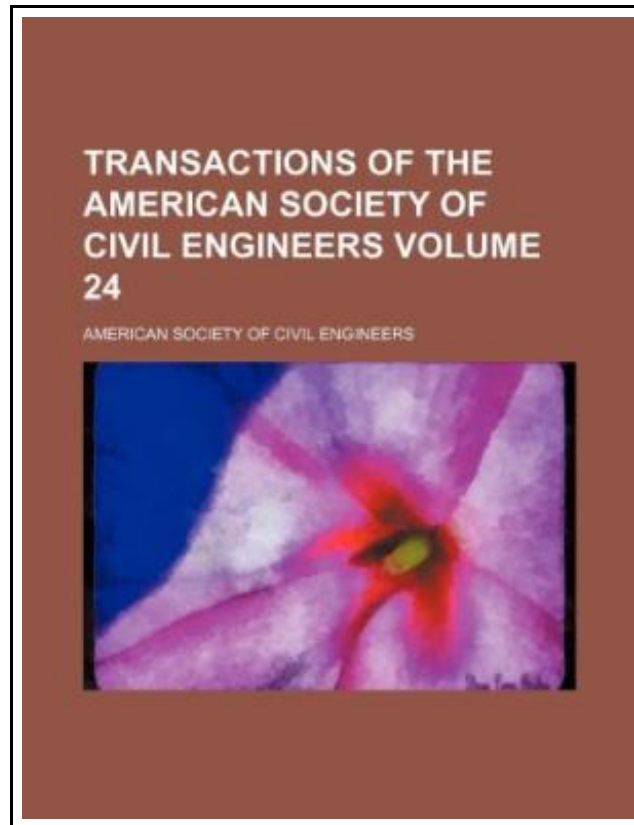# Transactions of the American Society of Civil Engineers Volume 24

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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 s2, in bars AC or AD , and in bar AB st, 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 expressed slt -j, s4, in terms of s2, though any other bar than BC could have been selected as the superfluous bar with equal propriety, the ease of elimination being the chief thing to consider. Now, if for simplicity, we regard all the bars as having the same modulus of elasticity and cross-section, we have the total elastic work of deformation after strain, for all the bars of the truss, L=.2r2ai s 2 + 2a2-2 + 23 2 + Gi 2 which must be a minimum; therefore putting its first differential coefficient, with respect to s2, equal to zero, we...

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