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Stresses in Simple Trusses. 1888. PT. II. Graphic Statics. 1890. PT. III. Bridge Design. 1st Ed. 1st Thousand. 1894. PT. IV. Higher Structures. 1st Thousand. 1898 (Paperback)

By Mansfield Merriman

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1890 edition. Excerpt: .chord produced at 105 feet to the left of A, the lever arm of Cd is 92.27 feet, and the stress is found from the equation-- $13.75 \times 105 + 2 \cdot 5 (12 + 135) + S \times 92.27 =$ whence $S = -f$ 8.7. For live load on the left the stress in Cd is and the counter Dc comes into action. To find the stress for Dc, we have-- $17.5 \times 105 + 10(120 + 135) - 5 \times 88.41 = 0$, from which $S = + 8.0$ tons. In the same manner all the other stresses are found and marked on the diagram. The method of resolution of forces can also be used to find the stresses in the diagonals; the load being put on the truss in the proper position and the two adjacent chord stresses being found by moments, the difference of these is the horizontal...



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