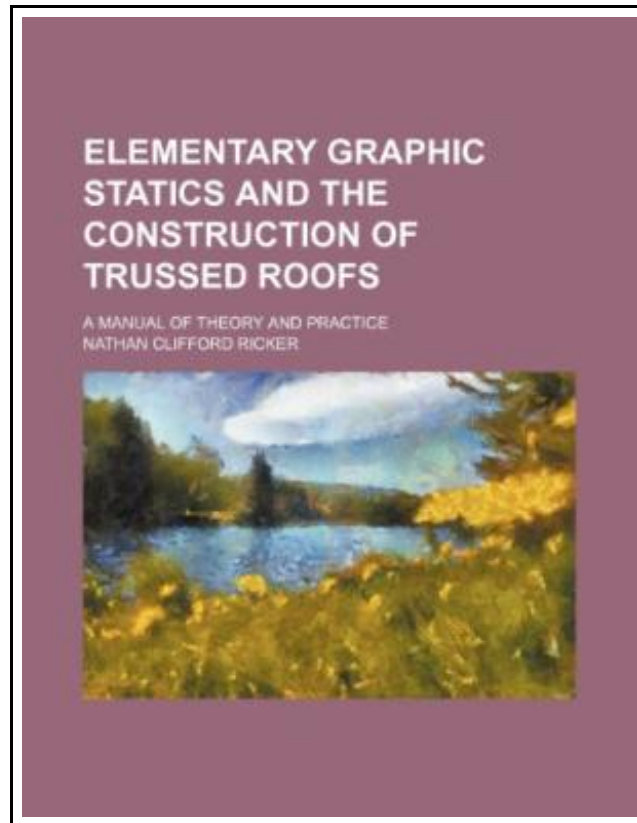


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ELEMENTARY GRAPHIC STATICS AND THE CONSTRUCTION OF TRUSSED ROOFS; A MANUAL OF THEORY AND PRACTICE



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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. 1892 edition. Excerpt: . of division x , also bisecting it at a . On the same vertical line, lay off ab and ac , each = $10.71-r-2$ tons, and divide bc into 7 equal parts, marking these points of division y . The load line de represents the total load on the upper chord, one part ax also representing the load at one joint; bc represents the total load on the lower chord, one part yy being the load at one joint. Joint A. The reaction evidently = half the total load on the entire trass, = $ae-f-ab = be$. Through b , draw y parallel to $Y1$ of Fig. 42, and through e , draw xl parallel to $X1$; these intersect at 1, and yl represents the strain in $Y1$, and xl , that in $X1$ of the given trass. Joint B. Draw 12 and $y2$ parallel to 12 and $Y2$ of Fig. 42, intersecting at 2. Joint C. Draw 23 and xll parallel to the corresponding members of the trass, intersecting at 3. The mode of completing the strain diagram is sufficiently obvious. For sake of clearness, only one-half the diagram is here given. (129.) Strain, Diagram for Permanent and Wind Loads. In Fig. 42, make gG and lm each = .801 ton; also, $gh = a$. wind load = 2.018 tons, and mn half a wind load, = 1.009 tons; join Gh , which measures 2.78 tons, and ln , which = 1.78 tons. In Fig. 44, make ah parallel to...

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