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A Text-Book on Applied Mechanics Volume 2; Specially Arranged for the Use of Science and Art, City and Guilds of London Institute, and Other Engineering Students (Paperback)

By Andrew Jamieson

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. 1897 Excerpt: .arranged that the shorter vertical bars shall be in compression and the oblique ones in tension. This clearly tends to a saving of material and a diminution of weight, since compression members, unless very short, must, other things being equal, be much heavier than tension members. Also, compression members are much strengthened by shortening, while a tension member is not weakened by lengthening. We may determine the reactions by a substituted frame by the Funicular Polygon, or, in this case, by calculation. In drawing the Stress Diagram we observe that A_a must be equal to Q_A , and a_Q is zero, since the reaction is vertical. The members a_Q and n_K are necessary to give the required stability. These, together with the end vertical members, might be dispensed with by carrying the supports up to the upper boom. Draw the lines representing...


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Reviews

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