



Treatise on the Various Elements of Stability in the Well-Proportioned Arch; With Numerous Tables of the Ultimate and Actual Thrust

By Daniel Phineas Woodbury

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. 1858 Excerpt: .given in table A , art. 92. Rule.--Suppose the angle CP P--T to be given by its tangent. Let angle O P P=I; half-span=r/ rise=/; f thickness at the key=ab=d. We have tang. l---tang. 7, which gives l. Obtain from table F the coefficient 0 of r-2 correspond d ing to this value of Zand to K--l---j; to this add the product 21--jX = C, 2 being taken from table A , art 92, opposite the same value of K. Then the thrust F=r(C+0). To this we ought to add, when ri i n i, 60 from the key, have any considerable magnitude, the effect upon the thrust due to the trapezoid ri i n . 97. Example: r=IQ feet;/=6 feet; 7=60; d= 1 .30; =1+=1.195; 7=49 6 24 =49.10; 507=0.89 . Coefficient of r2, table F, for jT=1.195, 7=45= 6=0.25676 7=50 0.20942 Difference, 0.04734 5: 0.89:....



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