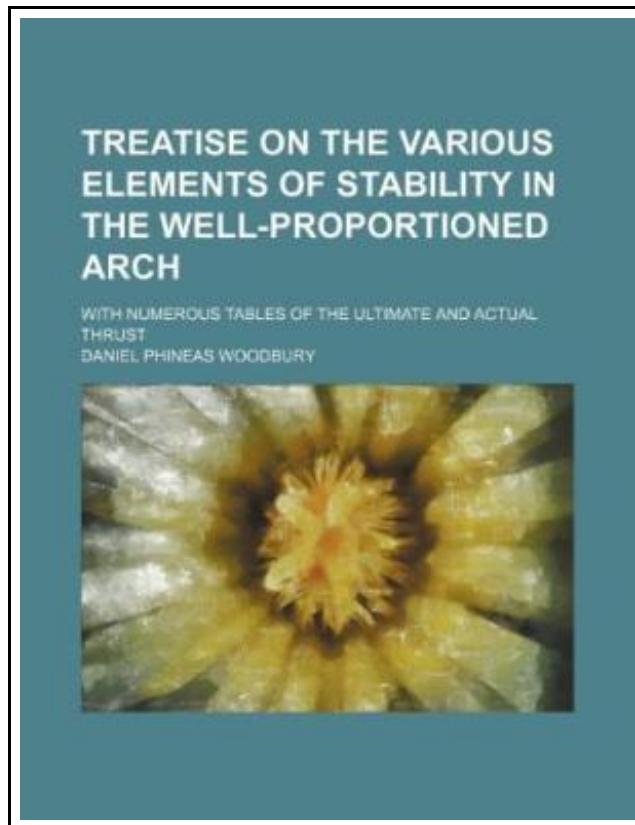


# Treatise on the Various Elements of Stability in the Well-Proportioned Arch; With Numerous Tables of the Ultimate and Actual Thrust



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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. 1858 Excerpt: .given in table A , art. 92. Rule.--Suppose the angle CP P--T to be given by its tangent. Let angle 0 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 2l--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:: 0.04734: x =0.00846 Add C, as above, for JT=1.195; 7=50, 0.20942 Add from table A , art 92, 2(1- ) X 0.00155, 0.00103 Total thrust, JX 0.21891 M. Audoy gives as the thrust of a three-center arch of the same rise, span, and load, Tx 0.22075 Difference= of 1 per cent., . =r2X 0.00184 The rule given above can only be used when the angle Zis greater than 45, or but little less than that limit. In other cases it will be best to investigate the thrust geometrically. The effect of a surcharge of uniform vertical depth may be obtained...



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