

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. 1913 Excerpt: ...at as follows. The value of the radius of gyration is usually about four-tenths of the depth of a section or eight-tenths of  $d$ , the distance from center of gravity to extreme fibre. If  $M$  is the bending moment in in.-lbs. and  $K$  the extreme fibre stress per sq. in. due to the weight,  $I$  the moment of inertia,  $A$  the area of section,  $p$  the radius of gyration,  $W$  the weight of member, and  $l$  its length in inches we have  $M = K I \frac{d}{l} = K A r^2 \frac{d}{l}$  or, But  $W = A$  times 4 (adding to 3.4 for details) times the length in feet or one-twelfth of  $l$ . Also  $d = 1.25r$ . The unit stress then reduces to  $K = 120 \frac{r}{l}$ , nearly. It is desired to keep this added unit stress due to weight of member within 10 per cent, of the regular unit stress  $K$  in the member. Assume the following as units allowed in specifications:  $K = 13,000 \frac{r}{l}$  over  $r$ , wind braces.  $K = 15,200 \frac{r}{l}$  over  $r$ , buildings.  $K = 20,000 \frac{r}{l}$  over  $r$ , bridges, dead load.  $K = 10,000 \frac{r}{l}$  over  $r$ , bridges, live load. By equating one-tenth of each of these values of  $K$  to  $K$  in the equation above we find that the equation is satisfied--for wind braces at  $l = 50r$ , when  $l = 400$  ins.  $l = 100r$ , when  $l = 140$  ins.  $l = 150r$ , when  $l = 53$  ins. for members in buildings at  $l = 50r$ , when  $l = 492$  ins.  $l = 100r$ , when  $l = 188$  ins.  $l = 150r$ , when  $l = 87$  ins. for bridge members, under dead load, at  $l = 40r$ , when  $l = 820$  ins.  $l = 80r$ , when  $l = 320$  ins.  $l = 120r$ , when  $l = 153$  ins. for bridge members, under live load, at  $l = 40r$ , when  $l = 410$  ins.  $l = 80r$ , when  $l = 160$  ins.  $l = 120r$ , when  $l = 77$  ins. When the length of a member for any given ratio of slenderness exceeds the length in inches given above, the extreme fibre stress due to bending should be calculated, as it will be more than 10 per cent, of the direct unit stress due to...

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