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A Simple Method of Determining Stress in Curved Flexural Members (Classic Reprint) (Paperback)

By Benjamin J Wilson

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from A Simple Method of Determining Stress in Curved Flexural Members The main reasons for applying the straight-beam formula to curved beams are, probably, that the curved-beam formula is much more complicated and difficult to apply than is the straight-beam formula and that, in the case of cast frames, the deviation from the assumed condition of homogeneity of material, as well as the presence of initial stresses, causes uncertainty as to the significance of the calculated stresses. These conditions will be discussed briefly later in this circular. Due to the shorter length of the fibers on the concave (or inner) side of a curved beam the unit strain (and hence also the unit stress within the proportional limit) is greater than that given by the straight beam formula; and the stress on the convex (or outer) side is less. Likewise the neutral axis does not pass through the centroid of the cross section of the beam but lies nearer to the concave or inner side. This increase in stress due to the curvature of the beam may be of...



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