

The Theory and Practice of Modern Framed Structures, Designed for the Use of Schools and for Engineers in Professional Practice Volume 1 (Paperback)



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Reviews

Excellent eBook and useful one. It can be rally fascinating throgh looking at period. You can expect to like just how the blogger create this publication.
(Myrl Schmitt)




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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. 1910 Excerpt: .areas, or thicknesses of the pin plates for the built up members; and the determination of the lengths and riveting of the pin plates so as to preserve the full assumed strength of the members. The sizes of eye-bar heads, and sometimes of the eye-bars, are also dependent upon the size of pin. The various steps of the calculation are interdependent, and must first be made tentatively, and then revised until accordant results are reached. It is generally convenient to assume, first, a size of pin, based on other similar designs, then the thicknesses of bearings and sizes of eye-bar heads can be determined. The packing of members is then arranged, and, finally, the stresses in the pin calculated and the exact size determined. The other calculations are then revised if necessary. Small variations in size in the different pins of the same bridge are undesirable, only two or three sizes generally being used. A pin must be analyzed as a short beam subjected to heavy shearing and bending stresses. The bearing pressures of the members on the pin are also high. A pin must then be designed with reference to (1) shear, (2) bending, and (3) bearing or crushing. (1) Shearing Stresses.--The shearing stresses on a pin are found, as in any beam, by summing up the forces acting on one side of any given section. In dealing with pins it is convenient to resolve all forces into horizontal and vertical components and then to...

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