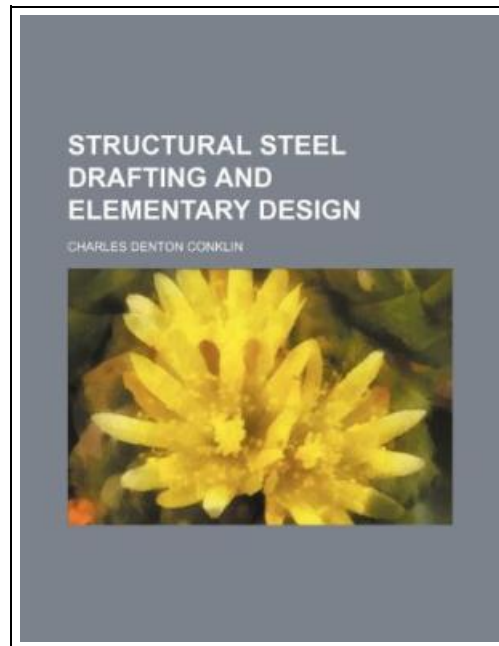


Structural Steel Drafting and Elementary Design



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Reviews

This book is definitely not effortless to start on reading through but extremely fun to learn. Better then never, though i am quite late in start reading this one. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Aliya Franecki)

STRUCTURAL STEEL DRAFTING AND ELEMENTARY DESIGN



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. 1915 Excerpt: .shown by the diagram due to the supporting effect of the gusset plates (connecting plates). It is usual practice, however, to use the theoretical length as the unsupported length, this method giving results slightly on the side of safety; it is to be recommended in that it assists in caring for the small secondary stresses which exist due to the practical method of manufacture. These secondary stresses are not usually provided for in any other way. The minimum angle usually specified is 2 X 2 X although some designers use smaller angles of thinner metal. In the best trusses, all members except the hanger at the centre, which carries no appreciable load, consist of two angles placed back to back with sufficient distance between them to permit of the insertion of the gusset connecting plates at the joints. For very light members, some designers use single angles and they seem to answer the purpose very well. Member a-b Stress equals + 35,000#. Allowable unit stress equals 16,000# per square inch. Required area equals $35,000/16,000 = 2.19$ square inch. The rivets are in diameter and, for tension members, the deduction from the area for each hole in the cross-section will be times the thickness of the angle. For the present bottom chord, two holes will be deducted from each angle, while for the web tension members only one hole will be deducted from each angle. Select two angles 3 X 2 X 6. Net area-2 X 1.62--4...



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