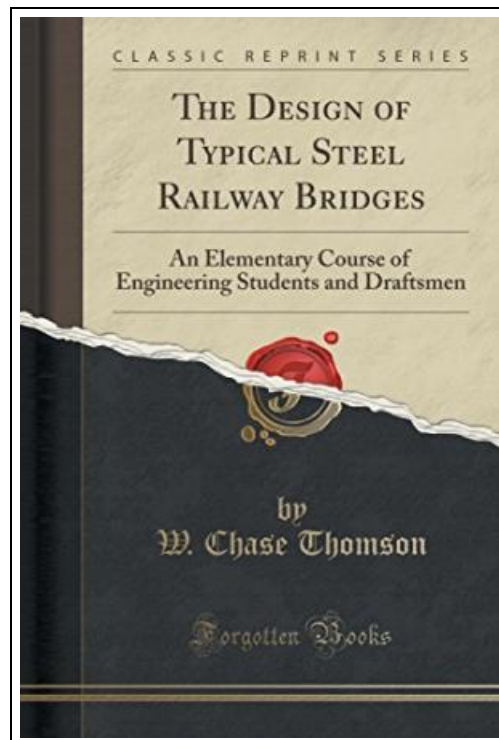


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Reviews




Here is the best publication i have got go through until now. It is actually writter in simple phrases and never hard to understand. I realized this publication from my dad and i suggested this ebook to find out.
(Lorena White)

THE DESIGN OF TYPICAL STEEL RAILWAY BRIDGES: AN ELEMENTARY COURSE OF ENGINEERING STUDENTS AND DRAFTSMEN (CLASSIC REPRINT)



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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Design of Typical Steel Railway Bridges: An Elementary Course of Engineering Students and Draftsmen This volume may be considered as a sequel to Bridge and Structural Design, a previous work of the author s; and, like it, has been developed from lectures given by him under the auspices of the Dominion Bridge Company. The structures treated of represent the commonest types of railway bridges, and were chosen because they seemed best suited to illustrate the problems which occur most frequently to the bridge designer. They include the following: a 60-ft. Deck Plate-Girder, a 100-ft. Deck Warren Girder, a 150-ft. Through Pratt Truss, a 200-ft. Through Pratt Truss with curved top chord, a 170-ft. Swing Bridge, and a Railway Viaduct. At the outset, a general specification has been given governing the loads, unit stresses, and such other details as require the attention of the designer. This is followed by tables for the permissible unit stresses in columns, and for the rivet values used in the designs. After which, instructions have been given for constructing the moment-diagram which is employed in computing the bending moments and shears for wheel-loads. The author has found the moment-diagram to be the most satisfactory method of dealing with wheel-loads, as it affords a rapid and reliable solution, and significant errors are less likely to occur with its use than with that of any form of moment table. The designs of the different structures are then considered in detail. Commencing with the main dimensions of the structure to be designed, and stating the loads which it has to carry, the stresses in the various members are first determined. The dimensions of...

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