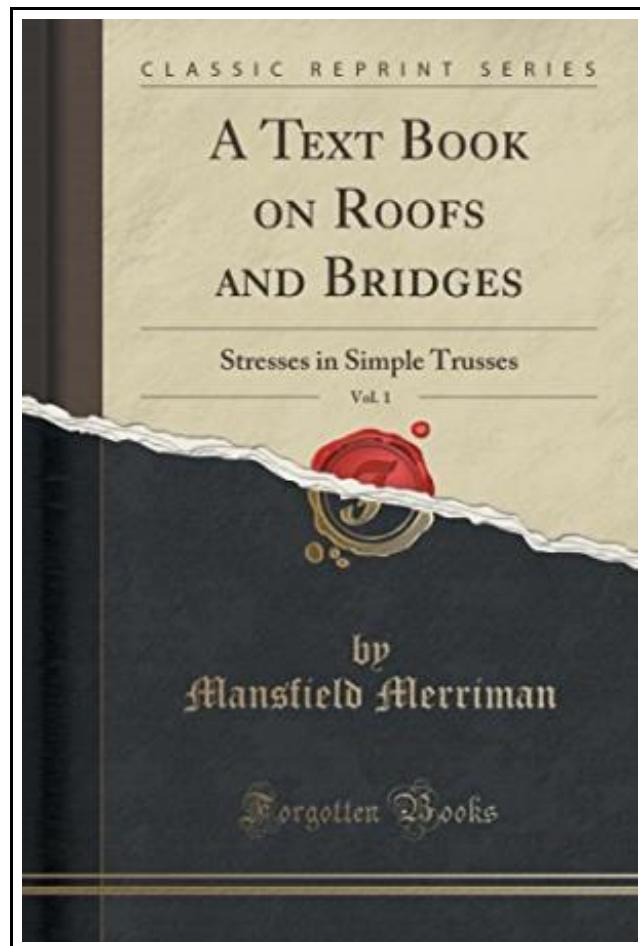


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Forgotten Books, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Text Book on Roofs and Bridges, Vol. 1: Stresses in Simple Trusses The course of instruction in roofs and bridges given to students of civil engineering in Lehigh University consists of four parts; first, the computation of stresses in roof trusses and in all the common styles of simple bridge trusses; second, the analysis of stresses by graphic methods; third, the design of a bridge, which includes the proportioning of details and the preparation of working drawings; and fourth, the discussion of cantilever, suspension, continuous and arched bridges. In the following pages the first part of this course is presented. The plan adopted in arranging this text-book on the computation of stresses is similar to that followed in the author's Mechanics of Materials. The principles and methods are first established, and then numerous numerical examples are fully worked out to illustrate them and their application to different forms of trusses, while a number of problems are stated as exercises for the student. As no work is so valuable to a student as that done by himself, each alternate leaf throughout the text has been left blank, so that his solutions of these problems may be recorded in permanent form. In view of the importance of designing members for repeated stresses and shocks, particularly in bridge trusses, it has been thought well to compute in most cases the minimum as well as the maximum stresses. The range of stress thus becomes known for each member. It is believed that this feature will assist students in forming clear ideas as to the influence of the live load upon different members of the truss. About the...



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