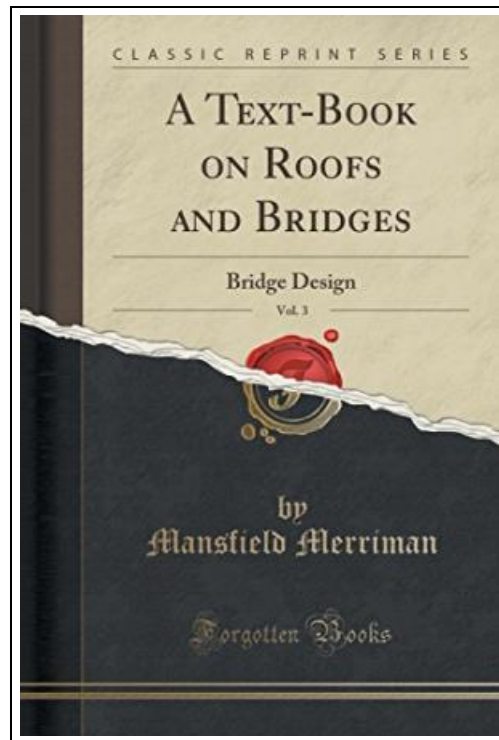


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Text-Book on Roofs and Bridges, Vol. 3: Bridge Design In preparing the following pages on Bridge Design the attempt has been made to present the subject both rationally, as an application of the principles of mechanics, and practically, as an illustration of modern economic structures. Although Chapters I-VII treat largely of the former and IX-XIX of the latter, the two ideas are everywhere blended, as they necessarily must be to secure proper strength and greatest economy. Since probably more than ninety per cent of all bridges are those resting on two supports, this volume is confined to that class. For a beginner the study of bridge design should be largely that of proportioning details according to given specifications, and simple bridges furnish these in endless variety. The plan here adopted is to discuss the details directly in connection with a proposed design, as thus the dependence of one thing upon others is most clearly seen. Railroad bridges are mainly chosen for illustration, but two highway structures for electric-car traffic are given, the subject of roofs is treated in two chapters, and another is devoted to elevated railways. Chapters IV-VII, which have been prepared by Professor Jacoby, present the complete computations for the design of a roof truss, a plate-girder bridge, a pin bridge and a riveted bridge. In each case the design is based upon standard specifications, every requirement of which is fully carried out, and it is believed that the fulness of the discussions will render them valuable to young engineers as well as to students. The entire effect of wind has been considered, and hence somewhat heavier sections are deduced than are...



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