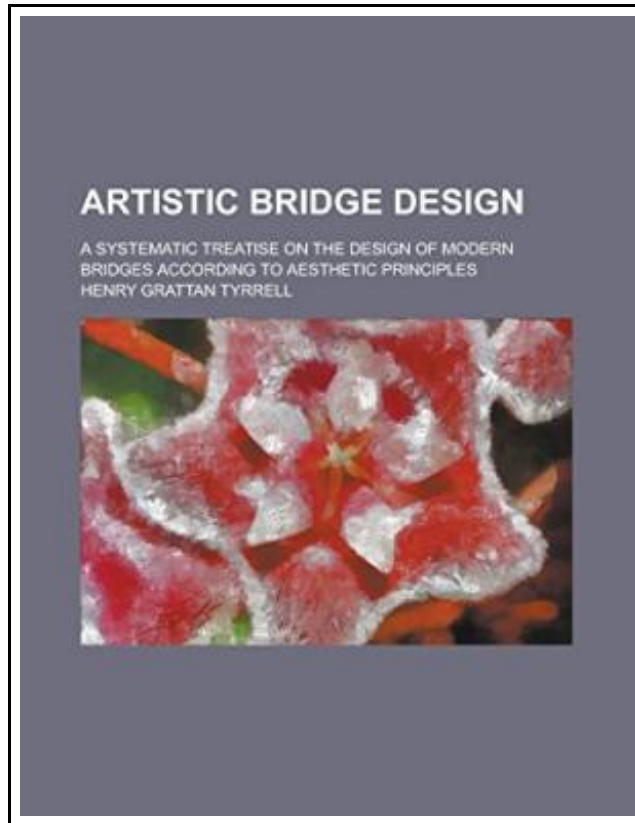


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(Candace Kling)


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Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1912 edition. Excerpt: .Viaur viaduct, are not artistic and are rarely economical; parallel ones are preferable. An objection to numerous light spandrel bents is that the slender columns need supporting at one or more intermediate points, but the condition may be remedied by using a smaller number of heavier bents or towers. Many old cast iron arches, as the St. Peters bridge at Paris, had a series of iron circles in the spandrels, but circular forms are not the best for sustaining weight, and the aesthetic effect was not satisfactory. A shield on the center pier of the cast iron arch at Chestnut street, Philadelphia, bears the date of construction. **RELATIVE POSITION OF DECK AND SPRINGS** The relative elevations of roadway and springs give to metal arches their chief character. Individuality is best exhibited when a form is selected which is impossible in masonry, and for this reason through or partly through metal arches are often preferred, like those at Grinenthal (Fig. 64) and Straubing, the crescent shape contrasting with stone arches and revealing the special character of steel. **ARCH TYPES** The three common arch types are (1) plate girder ribs, (2) spandrel lattice, and (3) curved lattice ribs. Plate girder arches are illustrated by the Washington bridge at New York, the Forbes street bridge at Pittsburg, and the Constance-Baden bridge in Switzerland. The Harvard bridge at Boston, made to imitate an arch, is really a plate girder curved on the under side. The Manhattan Valley...

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