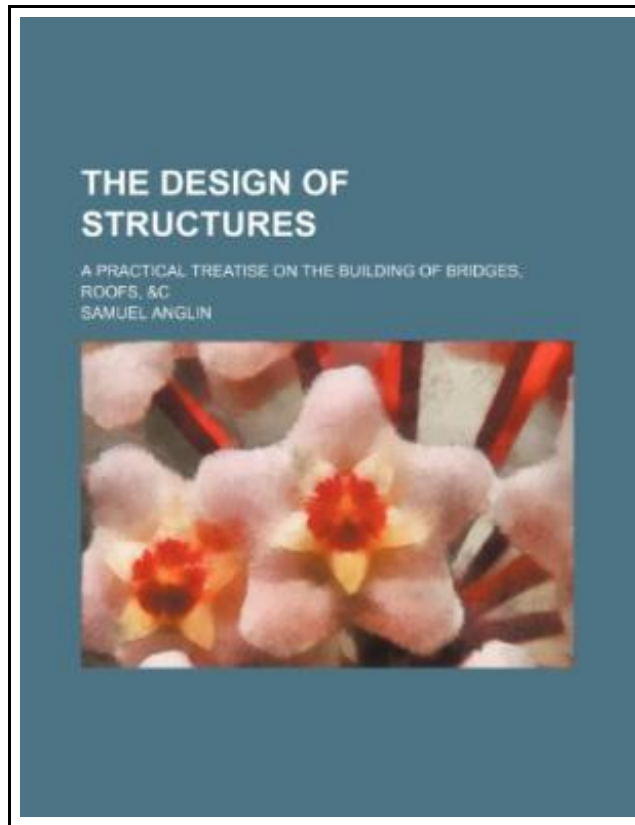


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1891 Excerpt: .for supporting the roof. 221. Main Principals.--The main trusses or principals may be supported on walls, columns, or girders, and as far as their design is concerned may be classed under two main heads, viz.: --1. Complete trusses or those in which the pressure on the supports acts in a vertical direction. 2. Arches, braced or otherwise, which produce an outward pressure on the supports. Trusses of the first-class may be subdivided into two groups: --(a.) Those with straight rafters, examples of which are given in figs. 164 and 184. (6.) Those with curved rafters (Bowstring trusses), like that shown in figs. 190 and 192. Fig. 167a, is an example of the second-class, and represents a braced arch. Principals of the first-class are, like an ordinary braced girder, self-contained, and exert only a vertical pressure on the supports, except it be a side thrust arising from the pressure of the wind. The various members of these principals are exposed to compressive and tensile stresses; the main rafters being in compression while the bottom members or main ties are in tension. The intermediate bracings connecting these together may be exposed to compressive or tensile stresses according to their position. The load on a roof being constant, or nearly so, it follows that the amount of stress on any particular member does not vary, or varies only in very small degree, except in the case of a light roof when a strong wind is blowing, or when a...



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