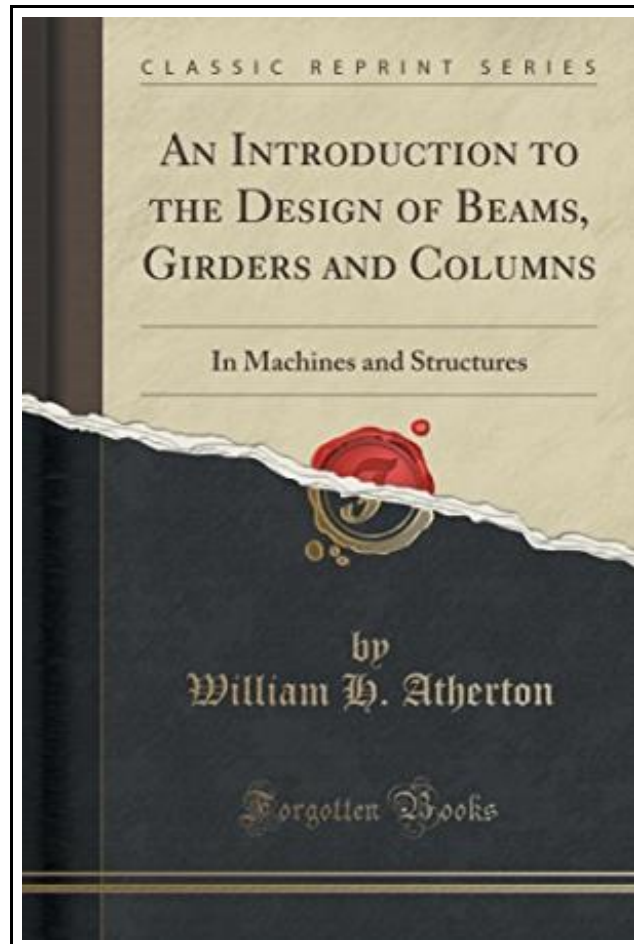


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from An Introduction to the Design of Beams, Girders and Columns: In Machines and Structures The design of beams, in relation to strength, stiffness and convenience of construction, is a study that appeals to all classes of engineers and architects. For in all machines and structures beams appear in one form or another; and little progress can be made in scientific designing without a proper understanding; of the principles or fundamental facts underlying their construction. Hence great prominence is rightly given to this subject in all courses of applied mechanics, machine and building construction, and naval architecture. The following chapters, based on articles originally contributed to The Mechanical World, deal in an elementary manner with the main principles and considerations involved in designing beams and columns of such forms and materials as commonly occur in machines and structures. Although points of mathematical intricacy have been intentionally avoided, my aim has been to make the treatment thorough, within the limits prescribed, and the mode of presentation such as can be easily understood. On questions of fundamental importance I have aimed at going to the root of the matter, giving full proofs of the leading formulae: while on points of less significance I have touched but lightly. The diagrams interspersed throughout the text are very numerous, and include examples illustrative of the graphical method of estimating the stresses in the several members of braced girders. A long experience, not only in the lecture-room but also in the designing and estimating offices of several large engineering works, has taught me the great value of numerical examples in imparting clearness of view and facility in applying principles to practice. About...



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