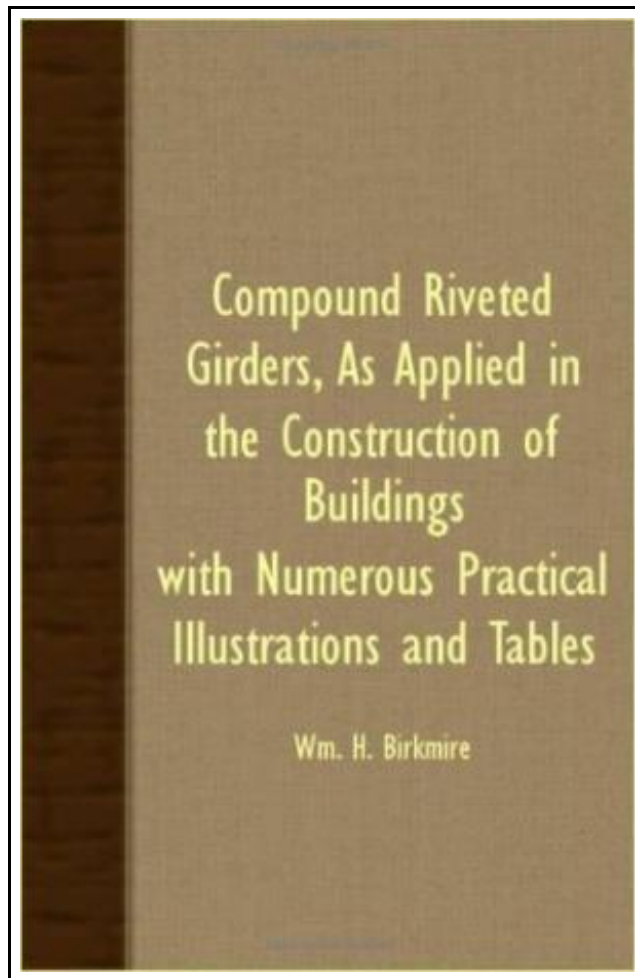


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Read Books, United Kingdom, 2007. Paperback. Book Condition: New. 216 x 140 mm. Language: English . Brand New Book ***** Print on Demand *****.PREFACE. IN order to facilitate the calculation attending the construction of Wrought Iron and Steel Riveted Girders, the author has endeavored in this work to supply the link which separates Theory from Practice. Its object may be briefly stated. A riveted girder is to be designed the span, depth, and loads are known, the strains are calculated by the well-known bending moment formulae, and largely by the graphic method lastly, the details of construction are fully illustrated. Touching the question of accuracy, it is scarcely necessary to notice the slight difference that may arise between the two methods, i.e., working out the usual formulae, or by measuring from the graphic diagrams. The time consumed in wading through a complicated series of equations to reach a few measurements is objectionable when at least such measurements can at once be had by the graphic method. This work does not investigate exceptional or extremely scientific riveted girders, but more especially those of a type now extensively adopted and constructed by well-known architectural iron workers. The diagrams and the various examples explaining the Authors method are submitted to architects and architectural students with the hope that they will become a medium of usefulness to them in the routine of office work. WILLIAM H. BIRKMIRE. NEW YORK, 1893. TABLE OF CONTENTS. PART I. STRAINS IN COMPOUND RIVETED GIRDERS. PAGE Compound riveted girders described 1 Bending moments 2 Flanges 4 Shearing forces on the webs 5 Buckling of webs 7 Stiffeners 8 Riveting Friction of plates, . 10 Proportioning rivets n Rivets connecting webs with flanges 12 Spacing rivets according to strain produced in the flanges by the bending moments, 15 Proportioning...



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