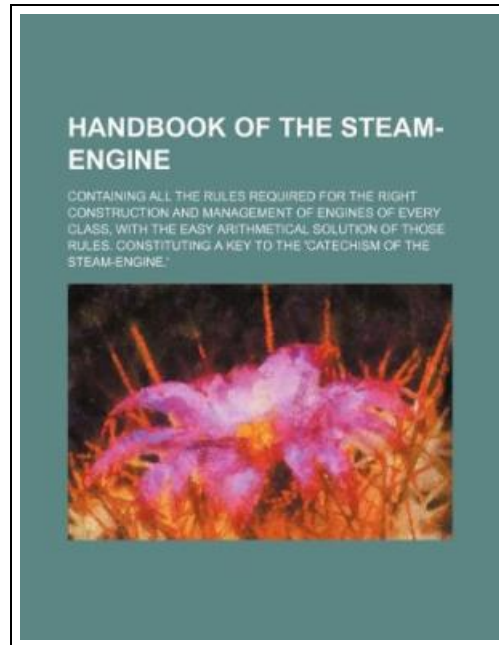


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1865 Excerpt: .of strength will be about nine times the breaking weight, if we suppose the main centre to be overhung as in marine engines. Thus, in a cylinder of 24 inches diameter, and, consequently, of 452 square inches area, the total load on the piston with 20 lbs. on each square inch is 9,040 lbs. But as the strain at the main centre is doubled from the beam acting as a lever of 2 to 1, it follows that the strain at the main centre will be 18,080 lbs. The ultimate tensile strength of common cast-iron being 12,000 per square inch of section, and the tensile and shearing strength being about the same, th of 12,000, or 1,888 lbs., will be the proper load to place on each square inch of section; and 18,080 divided by 1,888 will give the proper sectional area in square inches, which will be 18J square inches nearly. This area corresponds to a diameter of a little over 4J inches. But the strength is virtually doubled by the circumstance of the main centre of land engines being supported at both ends. MAIN BEAM. The rules in common use for proportioning the main beams of engines are the same as those which existed prior to Mr. Hodgkinson s researches on the strength of cast-iron girders, which showed that the main element of strength was the bottom flange. But as in the case of engine beams the strain is alternately up and down, the...

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