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Handbook for Mechanical Engineers

By Henry Adams

Theclassics.Us, 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. 1891 edition. Excerpt: .16 in. diam. Twin safety valves, each with clear passage of area = 1200 of heating surface, . diam. ins. = 08 heating surface, sq. ft. Chimney, 13 ft. 3 ins. from rail level to top, smallest diam. ins. = 4 Varea grate, sq. ft. Steam pipe = area of piston. Air space through bars = of grate area. Fire-bars, centre depth = length; thickness, top = 3V length; thickness, bottom = j length; end depth = f middle depth.-- Railway Press. SECTION XI. THE STEAM ENGINE. 377. Horse-power. Actual H.P. = 33,000 ft.-lbs. per min. in all calculations, but the actual work of a horse is about 22,000 ft.-lbs. per minute. Watt s nominal H.P. for low pressure engine (pressure 7 lbs. per sq. in. above atmosphere), = area sq. ins. X 7 X 128 x ty stroke ft.- 33,000 = d in ins.2...



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