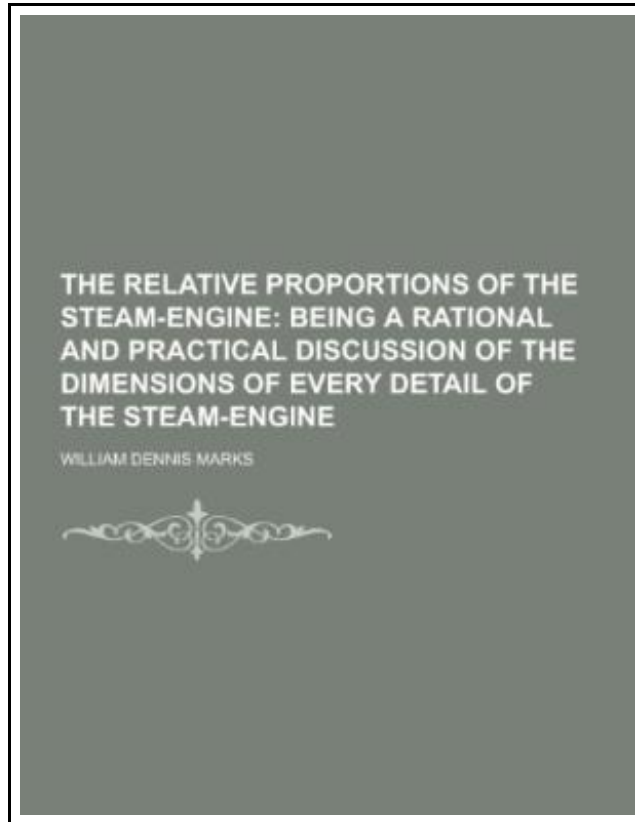


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Theclassics.us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1887 edition. Excerpt: . be the most attractive to, and the most considered by, mechanics and engineers. The only test of beauty and elegance of design in an engine is fitness and perfect proportion to the stresses placed upon the various parts. The severest simplicity of design should be adhered to. Every pound of metal, where it does not subserve some useful purpose, every attempt at mere ornament, is a defect, and should be avoided. The well-educated engineer should combine the qualities of the practical man and the physicist; and the more he blends these together, making each mould and soften what the other would seem to dictate if allowed to act alone, the more will his works be successful and attain the exact object for which they are designed. The steam-boiler and its construction will be found to be very thoroughly treated in Professor Trowbridge s Heat and Heat Engines, in Wilson s Steam-boilers, and in The SteamEngine, by Professor Rankine. (71.) Note on the Taper of Connecting-Rods.--The following remark, page 62, needs qualification: It is customary to make round connecting-rods with a taper of about one-eighth of an inch per foot, from the centre to the necks, which should be of the calculated diameter. Experiment does not show an increased strength from a tapering form. Passed Assistant Engineer C. H. Manning, in a pleasant correspondence with the writer, differed from him, deeming it a better method to taper connecting-rods from the crankpin end to the...



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