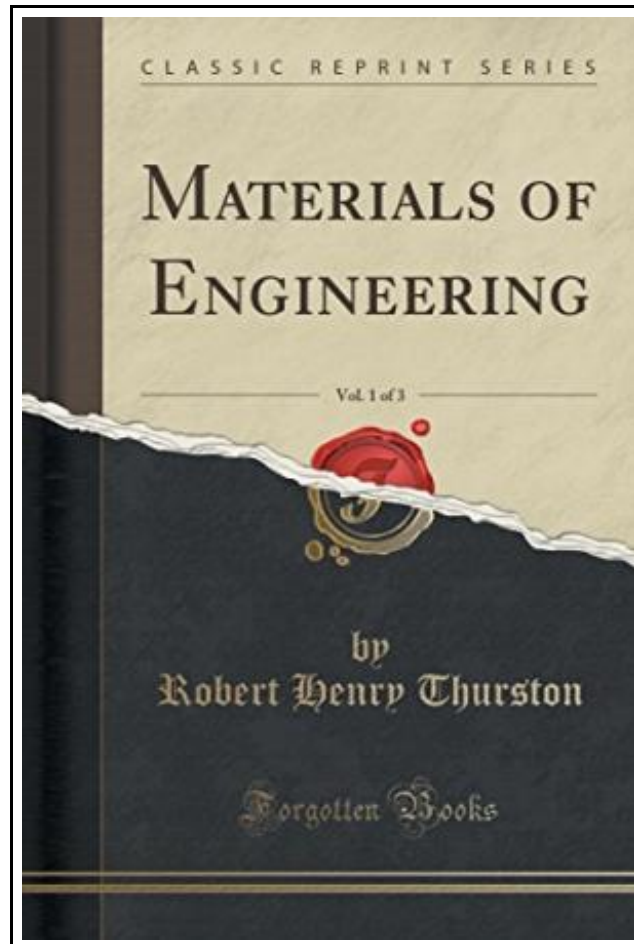


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Materials of Engineering, Vol. 1 of 3 I. Use by the Designing Engineer. - The mechanical engineer makes comparatively little use of the materials of masonry. Their principal value to him is for use in foundations, and in structures protecting his machinery. Of the stones, but few are well adapted to his purpose. Using them in foundations, he requires them to be strong and dense, hard and durable; and the mortars and cements used to bind them should be of the best possible quality. A foundation intended to bear the shock and tremor of moving machinery must, necessarily, be more carefully built, and must be constructed of more carefully selected materials than a foundation carrying a load at rest. The civil engineer makes frequent use of all the materials of masonry. There is given here a summary of the most important characteristics of these materials. For a more detailed account of them, reference may be made to special works on civil engineering. The mason uses for foundations natural stones which are either silicious, calcareous, or argillaceous in their character, and artificial stones, including the several varieties of brick. For special construction, he sometimes employs materials not in common use, as fire brick and fire clay. These materials are very rarely used in structures, to resist other than compressive stress. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the...

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