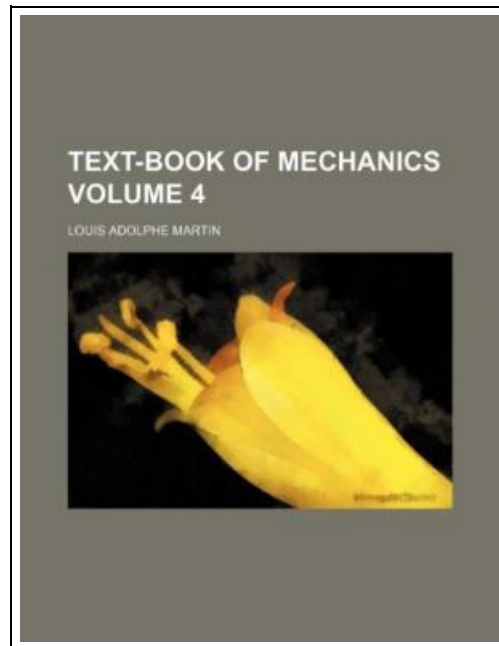


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1912 Excerpt: .Exercise 114. A tripod has two of its legs braced together so as to carry a winch which is used in connection with block and tackle for lowering water mains. The legs of the tripod are each 10 feet long and their feet form a triangle whose sides are 7, 7, and 4 feet, 4 feet being the distance between the feet of the braced legs. Assuming three pulleys each in both upper and lower block and the weight of a 12foot length of 36-inch cast-iron pipe as 3 tons, what are the stresses in the tripod legs if the rope leading to the hoisting drum lies in the plane of the braced legs and bisects the angle formed by them? Sheer Legs.--Another form of tripod much used in hoisting and transferring loads is illustrated in Fig. 65. Here AB and BC represent stiff legs anchored at A and C so as to allow a hinge-like motion about the line AC, and fastened together at B. These sheer legs are supported by a backstay, BD, so fastened at D that it may be lengthened and shortened, thus changing the reach EF. This backstay may be so arranged that the projection of B may fall between E and D; then the backstay must take compression. Exercise 115. Compute the stresses in the legs and backstay of the sheers erected at Sparrow s Point, Md., when carrying a load of 100 tons with a reach of 35 feet...



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