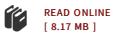




Principles of Mechanics

By Thomas Minchin Goodeve

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. 1891 Excerpt: .by the friction of a pivot. When an axle rests on the flat end, instead of on cylindrical bearings, it terminates in a pivot. Let r = radius of such a pivot, w the weight supported on it, fit he coefficient of friction, and a the angle of repose. Then the area of an annulus of the pivot of radius x and breadth d x = ir (x + d x)2-v x2 = 2 ir x d x, if (d x)2 be neglected, Also the pressure on the annulus =--2 n x d x. ir r2 Therefore the work absorbed by the friction on the annulus during absorbed by friction in one revolution of the pivot =-w. (Sum of x2 d x). It may be proved by analysis that the sum of a series of quantities of the form x d x, where d x is...



Reviews

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