



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, f the coefficient of friction, and a the angle of repose. Then the area of an annulus of the pivot of radius x and breadth $d x = \pi r (x + d x)^2 - \pi x^2 = 2 \pi r x d x$, if $(d x)^2$ be neglected, Also the pressure on the annulus $= \frac{w}{\pi r^2} \pi r^2 d x = w d x$. Therefore the work absorbed by the friction on the annulus during absorbed by friction in one revolution of the pivot $= w d x$. (Sum of $x^2 d x$). It may be proved by analysis that the sum of a series of quantities of the form $x d x$, where $d x$ is...



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