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## Principles of Mechanics (Paperback)

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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  $dx = \pi(x + dx)^2 - \pi x^2 = 2\pi x dx$ , if  $(dx)^2$  be neglected, Also the pressure on the annulus  $= 2\pi x dx \cdot \pi r^2$  Therefore the work absorbed by the friction on the annulus during absorbed by friction in one revolution of the pivot  $= w \cdot (\text{Sum of } x^2 dx)$ . It may be proved by analysis that the sum of a series of quantities of the form  $x dx$ , where  $x$  is...



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