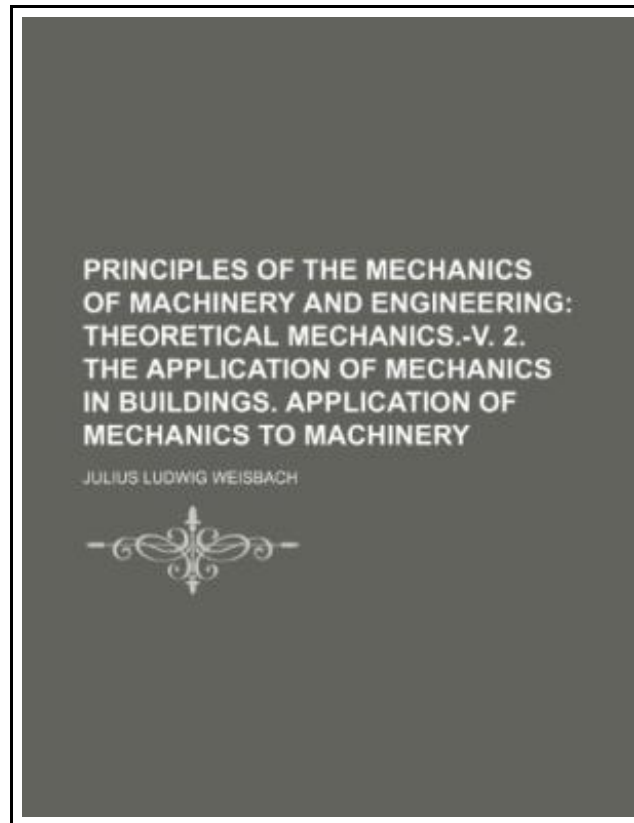


# Principles of the Mechanics of Machinery and Engineering; Theoretical Mechanics.-V. 2. the Application of Mechanics in Buildings. Application of Mechanics to Machinery



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## ***Reviews***

*Extremely helpful for all type of folks. It generally is not going to expense a lot of. I found out this book from my dad and i advised this book to find out.*

***(Melany Goyette)***

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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. 1847 Excerpt: .a)  $g = (\sin. 20). 32,2 = (0,3420--0,03. 0,9397). 32,2 = 0,3138. 32,2 = 10,104$  feet; hence, the final velocity of descent is,  $- = VTps-S2. 10,104. 150 = V 3031,2-55,54$  feet. On the horizontal plane the accelerating force is  $jo, --fg----0,03. 32,2 = 0,966$  feet  $j$  hence, the 243. Rolling motion.--When a carriage rolls down an inclined plane, the friction of the axle chiefly acts in opposition to the accelerating force; if  $r$  be the radius of the axle, and  $a$  that of the wheel, the friction will amount to  $--N--G \cos. a$ , and hence  $a$  the accelerating force  $p=(\sin.a----\cos.a) G$ . If a round body  $AB$ , a cylinder or sphere, for example, roll Fig. 299. down an inclined plane  $FH$ , Fig. 299, we have to consider a progressive and a rotatory motion at the same time. Generally the acceleration of the progression is equal to that of the rotation ( 156); since if we put the moment of inertia of the rolling body  $= G y$ , and the radius of the cylinder  $=o$ , we shall then obtain for the force  $AK=K$ , with which the cylinder is set into revolution by virtue of the penetration of its  $Gv$  parts into those of the inclined plane:  $K=p,----$ . But the force  $r r g a K$  acts opposed to the force for descent  $G \sin. a$ , hence it follows that the moving force for progressive motion  $= G \sin. a--K, . G \sin. a--K$  and the accelerating force...



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