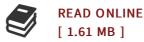# An Elementary Treatise on Mechanics for the Use of Junior University Students

By Richard Potter

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1859 edition. Excerpt: .will be the same, =m say; and the number of cords at the lower block will be 2m, and then 2m 2m If the weight of the pullies be counterpoised or neglected, we have W 48. Prop. To find the relation of the power to the weight in a combination of pullies when the cords are parallel, and each attached to the weight. This is called the third system of pullies. In this system the uppermost pulley is fixed, and its weight is supported by the beam to which they are attached. Let $wx$ be the weight of the pulley $ax$; w , ws those of the pullies $a2$, $a3$ respectively. Let $ti3$ $t2$, $t9$, $t4$ be the tensions in the cords respectively, and t, = P, $t2=z2tl + w1 = 2P + w1$) $t3=22 + wq-22P + 2w1 + wz$, $t4 = 2t3$...

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