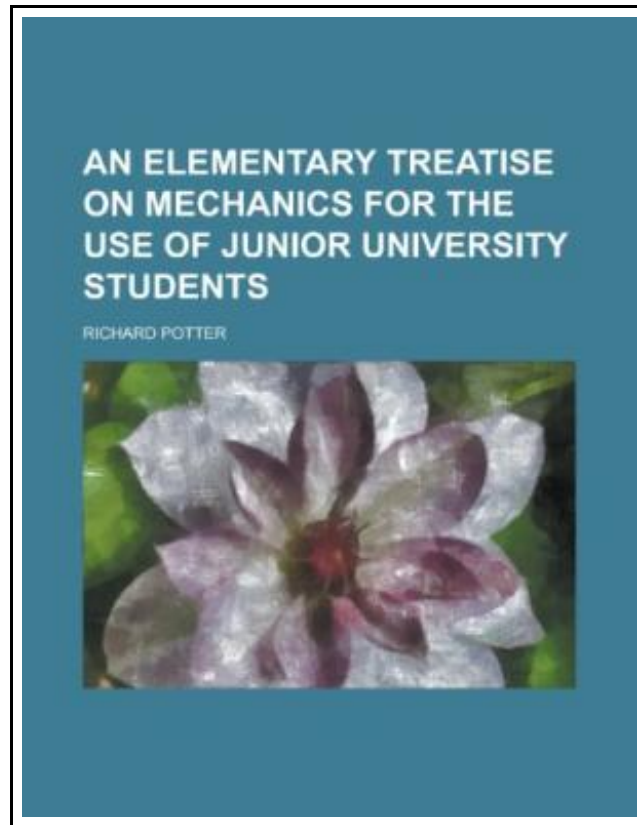


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AN ELEMENTARY TREATISE ON MECHANICS FOR THE USE OF JUNIOR UNIVERSITY STUDENTS (PAPERBACK)



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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 w_x be the weight of the pulley a_x ; w , w_s those of the pullies a_2 , a_3 respectively. Let t_1 , t_2 , t_3 , t_4 be the tensions in the cords respectively, and $t_1 = P$, $t_2 = z_2 t_1 + w_1 = 2P + w_1$, $t_3 = 2t_2 + w_2 = 2(2P + w_1) + w_2 = 4P + 2w_1 + w_2$, $t_4 = 2t_3 + w_3 = 2(4P + 2w_1 + w_2) + w_3 = 8P + 4w_1 + 2w_2 + w_3$, and $W = t_x + t_2 + t_3 + t_4 = P(l+2 + 22 + 23) + w_1(l+2 + 22) + w_2(l + 2) + w_3 = p(24 \ 1) + w \ 1(23-1) + M, a(22-1) H-t_8(2-l)$. If the system contains n moveable pullies, we shall have similarly, $TV = P(2^{n+1}-1) + w_x 2^{n-1} + w_2 2^{n-1} + c + w_n 2^{n-1}$. If the n pullies were of the same weight w_v we should have $W = P(2^{n+1}-1) + w_l 2^n + 2^n - l + 2^{n-2} + c. + 2^n - n w_l = P(2^{n+1}-1) + w_l(2^{n+1}-2 - nc) = (P + Wl)(2^{n+1}-1) - n + l) w_v$ In this system the...

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