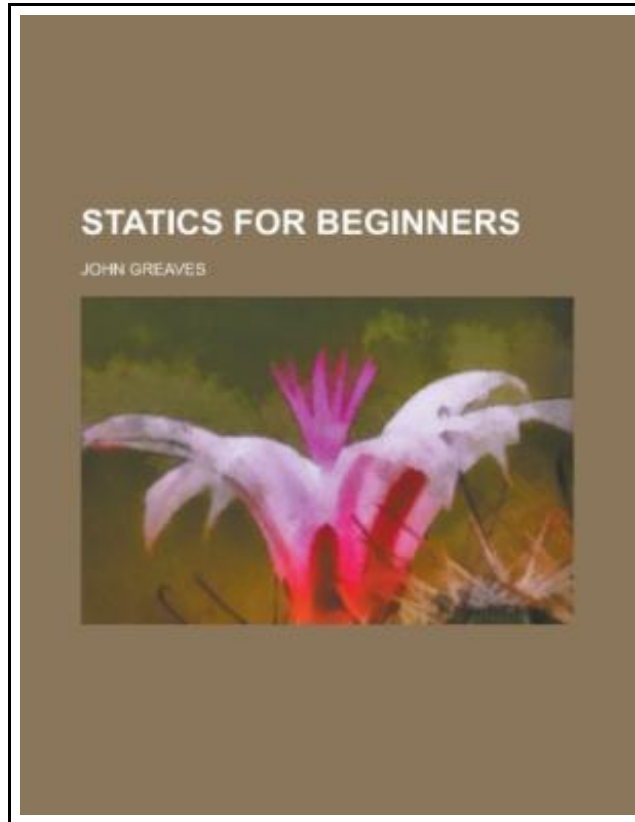


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Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1889 edition. Excerpt: .it is obvious that $W=2P$. There are three systems of pulleys usually described in text-books. The First System of Pulleys. 125. In the first system, which is sometimes described as that in which each pulley hangs by a separate string, the weight is attached to the lowest pulley: this is supported by a rope one end of which is attached to a fixed beam and the other end to the pulley next above, which is again supported in a similar way. The power is applied at the end of the rope supporting the highest pulley. The straight portions of the ropes are all vertical. Condition of equilibrium. (1) When the pulleys are supposed weightless. Let there be n pulleys, and let the tensions of the ropes supporting them beginning with the lowest be $T_1, T_2, T_3, \dots, T_n$. From the equilibrium of the first (lowest) pulley $2T_1 = W$. From the equilibrium of the others, we have $2T_2 = T_1, 2T_3 = T_2, \dots, 2T_n = T_{n-1}$. $\therefore W = 2^n T_n$. (2) When the pulleys are heavy. Let $w_1, w_2, w_3, \dots, w_n$ be the weights of the pulleys beginning with the lowest. We have seen from (1) that a weight W attached to the lowest pulley causes a force to be transmitted to the rope round the highest (the n th). Similarly the weight w_1 will cause a force to be transmitted...



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