

Example of Static Equilibrium

Balancing a leaning beam:

$$F_h - T_c = 0 \Rightarrow F_h = T_c \quad F_v = 5047 \text{ N}$$

$$F_v - Mg - mg = 0 \Rightarrow F_v - 515g = 0$$

$$aT_c - bMg - \frac{1}{2}mg = 0 \quad (3)$$

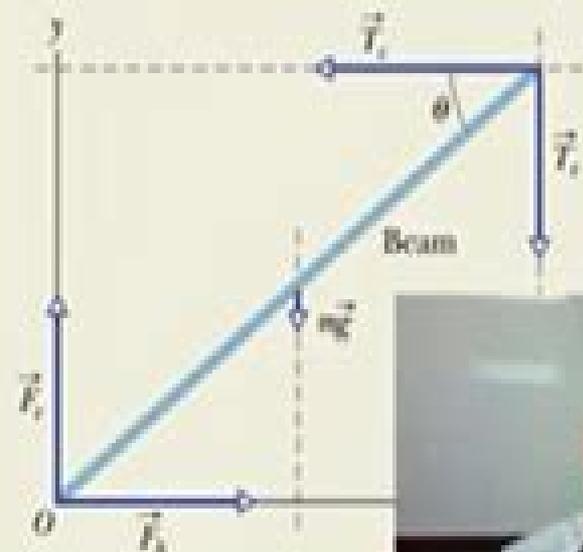
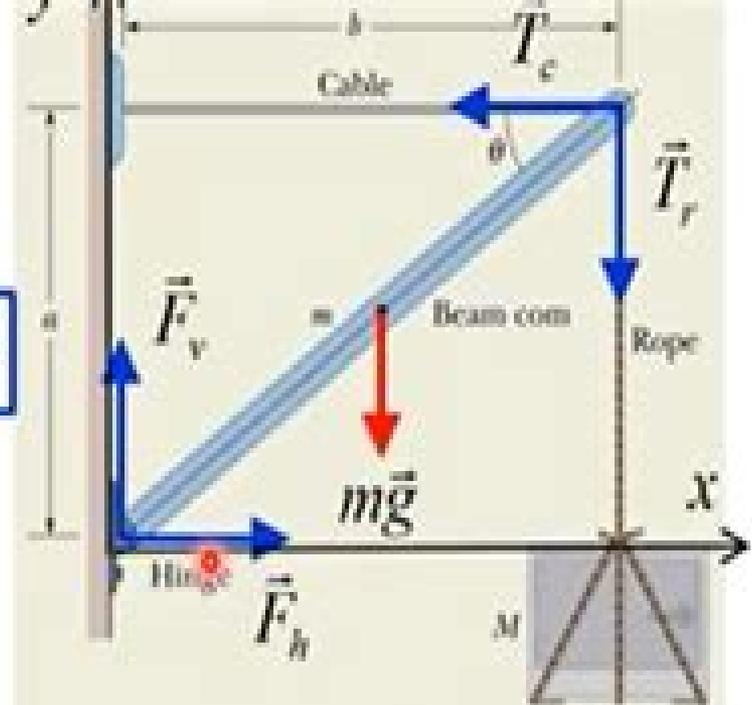
$$\Rightarrow 1.9T_c - 2.5 \cdot 430g - \frac{2.5}{2} \cdot 85g = 0 \quad (3)$$

Say, $M = 430 \text{ kg}$, $m = 85 \text{ kg}$, $a = 1.9 \text{ m}$, $b = 2.5 \text{ m}$

From (3): $1.9T_c = 10535 + 1041.25$

$$\therefore T_c = 6100 \text{ N} \quad F = \sqrt{F_h^2 + F_v^2} =$$

$$\therefore F_h = 6100 \text{ N} = \sqrt{6100^2 + 5047^2} = 7917 \text{ N}$$



Be sure to attend the recitations this week for practice!

Static Equilibrium Problems And Solutions

Lei Huang



Static Equilibrium Problems And Solutions:

Whispering the Techniques of Language: An Psychological Journey through **Static Equilibrium Problems And Solutions**

In a digitally-driven earth where displays reign supreme and immediate transmission drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within phrases frequently get unheard. However, situated within the pages of **Static Equilibrium Problems And Solutions** a interesting literary prize blinking with natural thoughts, lies an extraordinary quest waiting to be undertaken. Published by a skilled wordsmith, this enchanting opus encourages readers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within ab muscles cloth of every word. Within the mental depths of this touching evaluation, we shall embark upon a genuine exploration of the book is primary subjects, dissect its interesting publishing type, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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