

Example of Static Equilibrium

Balancing a leaning beam:

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

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

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

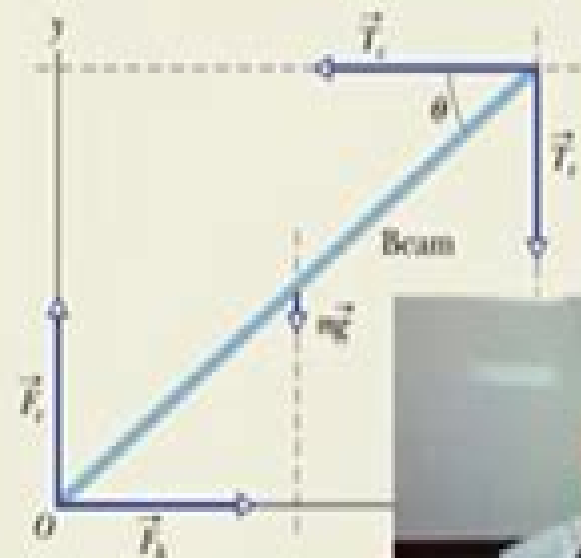
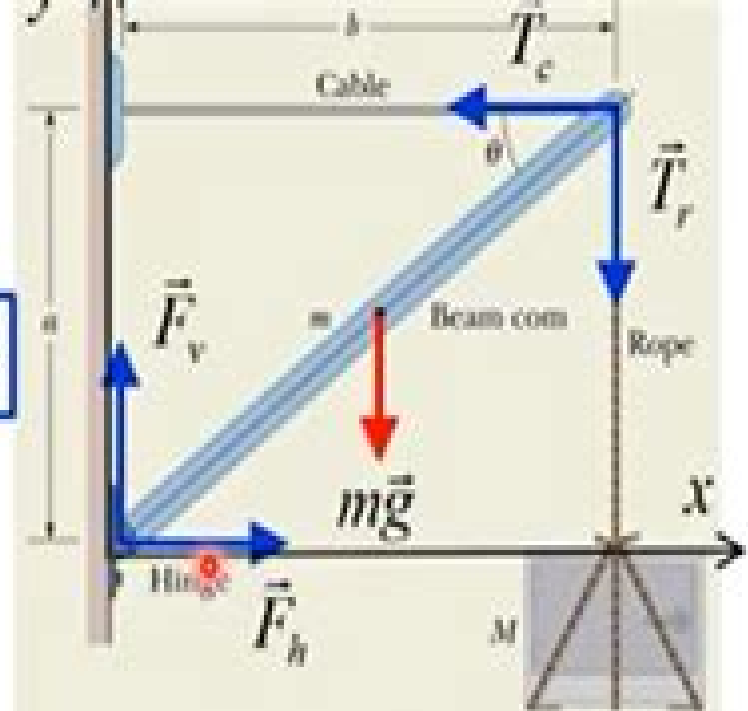
$$\Rightarrow 1.9T_c - 2.5 \cdot 430g - \frac{2.5}{2} \cdot 85g = 0 \quad (3)$$

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

Yan Bai

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