

# Example of Static Equilibrium

Balancing a leaning beam:

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

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

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

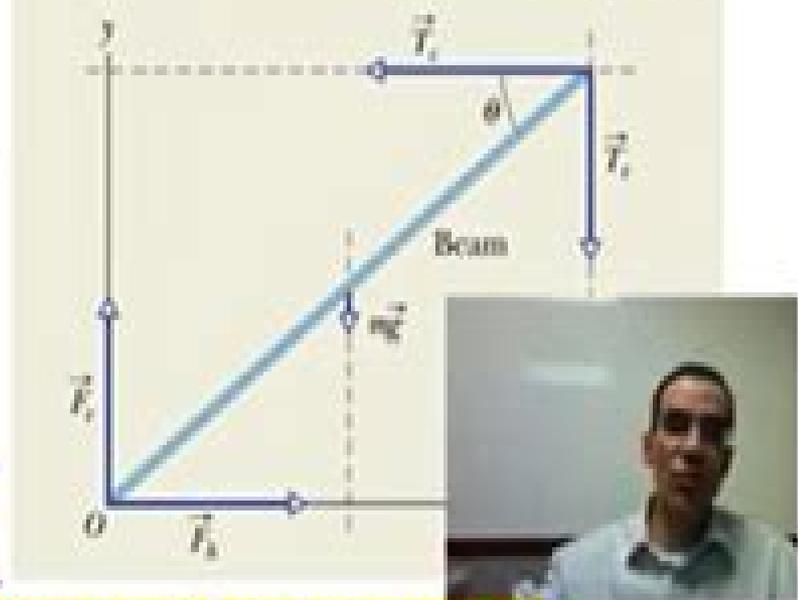
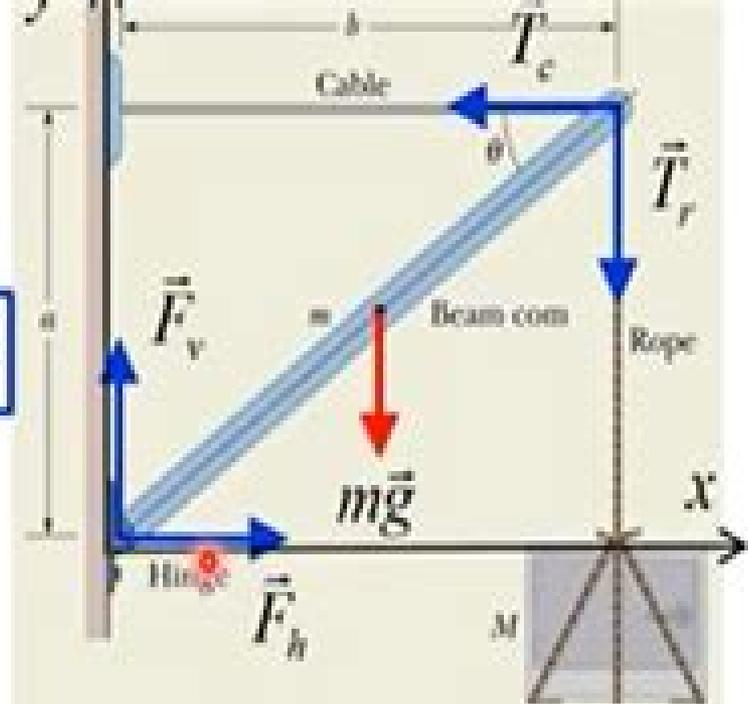
$$\Rightarrow 1.9T_c - 2.5 \cdot 430g - \frac{2.5}{2} \cdot 85g = 0 \quad (3)$$

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

**S Ben Porath**



## **Static Equilibrium Problems And Solutions:**

## Whispering the Secrets of Language: An Mental Journey through **Static Equilibrium Problems And Solutions**

In a digitally-driven world wherever screens reign supreme and instant interaction drowns out the subtleties of language, the profound strategies and mental subtleties hidden within words usually get unheard. However, located within the pages of **Static Equilibrium Problems And Solutions** a captivating literary prize sporting with natural thoughts, lies an exceptional journey waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus invites visitors on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the emotional depths of the emotional review, we will embark upon a genuine exploration of the book is core subjects, dissect their charming writing model, and succumb to the strong resonance it evokes heavy within the recesses of readers hearts.

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