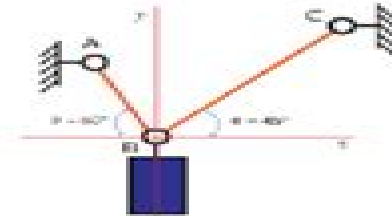


Problem 1

Given:

Two cables support a weight of 5 kN as shown in the diagram above. Determine the force in each cable. Be sure to draw an FBD. Write any set up work by hand on paper, but use the Mathcad Solve Block to find the values of F_A & F_B . Take a screenshot of the solve block and include it in your solution of the problem.

Required:

force in each cable

Solution:

$$\theta_a = 60 \text{ deg} \quad \theta_c = 45 \text{ deg}$$

$$F_{ax} = 5000 \text{ N} \quad F_{ay} = 0 \text{ N}$$

Guess Values

$$F_a := 100 \text{ N}$$

$$F_c := 100 \text{ N}$$

Constraints

$$-F_a \cdot \cos(\theta_a) + F_c \cdot \cos(\theta_c) = 0 \text{ N}$$

$$F_a \cdot \sin(\theta_a) + F_c \cdot \sin(\theta_c) - F_{ay} = 0 \text{ N}$$

Solve

$$\begin{bmatrix} F_{ax} \\ F_{ay} \end{bmatrix} := \text{find}(F_a, F_c) = \begin{bmatrix} 3.66 \\ 2.588 \end{bmatrix} \text{ kN}$$

Discussion:

I was able to solve the problem by using the given weight of 5000 N and knowing the angle values of 60 degrees and 45 degrees. Using this I guessed values for F_a and F_c , and I was able to solve for the actual values of F_a and F_c . I know that my answer is reasonable because the combined value of F_a and F_c is greater than 5kN which is necessary so that the cables don't and drop the box.

Smartphysics Mechanics Homework Solutions

Kalayu Belay, James Strohaber



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