

Homework Problem H6.F

Given: Block C, having a weight of W , is supported by cable CD that is pulled over a pair of rough, fixed cylinders, where μ_s is the coefficient of static friction between the cable and cylinders. Note that section AB is horizontal.

Find: Determine the range of values for the force F applied to end D of the cable for which block C remains in static equilibrium. Provide your answer in terms of the block's weight W .

For this problem, use the following parameter: $\mu_s = 0.7$.

