

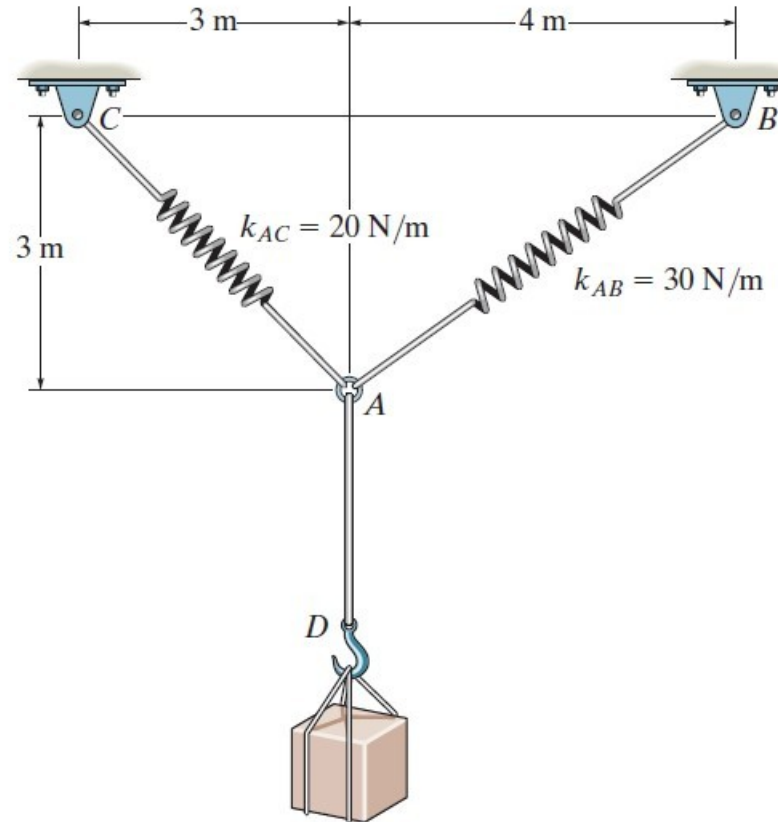
ME 201 STATICS



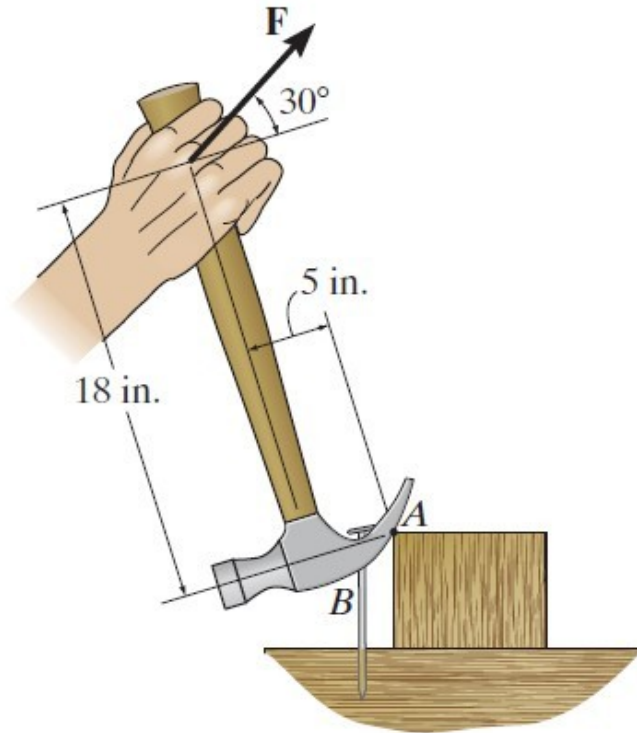
PROBLEM HOUR IV

2D EQUILIBRIUM

- Q1) Determine the stretch in springs AC and AB for equilibrium of the 2-kg block. The springs are shown in the equilibrium position.



- Q2) •4–9. In order to pull out the nail at B , the force $\mathbf{F}$ exerted on the handle of the hammer must produce a clockwise moment of $500 \text{ lb} \cdot \text{in.}$ about point A . Determine the required magnitude of force $\mathbf{F}$.



Q3) The foot segment is subjected to the pull of the two plantarflexor muscles. Determine the moment of each force about the point of contact A on the ground.

