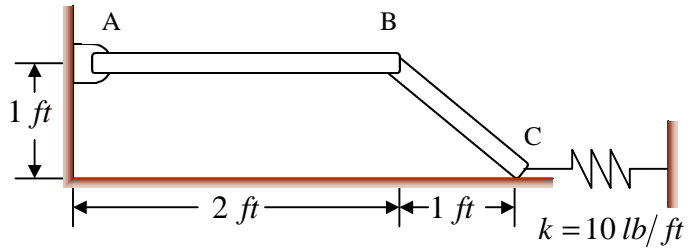


Example Problem - Le 14

Ex. Bar AB weighs 10 lb and bar BC weighs 6 lb. If the system is released from rest in the position shown, what are the angular velocities of the bars at the instant just before joint B hits the smooth floor?



Known:

$$m_{AB} = 0.311 \frac{\text{lb s}^2}{\text{ft}} \quad m_{BC} = 0.186 \frac{\text{lb s}^2}{\text{ft}} \quad I_{G,AB} = 0.104 \text{ lb s}^2 \text{ ft} \quad I_{G,BC} = 0.031 \text{ lb s}^2 \text{ ft}$$