

18–29.

A motor supplies a constant torque or twist of $M = 120 \text{ lb}\cdot\text{ft}$ to the drum. If the drum has a weight of 30 lb and a radius of gyration of $k_O = 0.8 \text{ ft}$, determine the speed of the 15-lb crate A after it rises $s = 4 \text{ ft}$ starting from rest. Neglect the mass of the cord.

