

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.

