

A string is wrapped several times around the rim of a small hoop of radius 0.0800 m and mass 0.180 kg . If the free end of the string is held in place and the hoop is released from rest as shown below, calculate



- A. the tension in the string while the hoop descends as the string unwinds.

B. The time it takes the hoop to descend 0.750 m

C. The angular speed of the rotating hoop after it has descended 0.750 m.