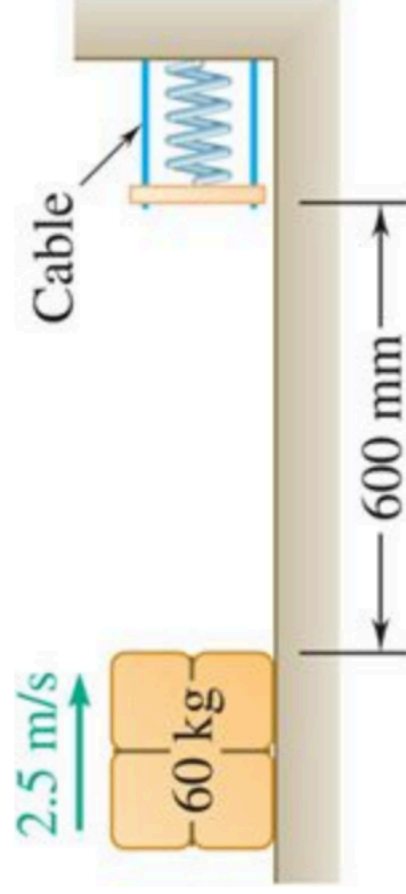


Sample Problem 13.3

A spring is used to stop a 60 kg package which is sliding on a horizontal surface. The spring has a constant $k = 20 \text{ kN/m}$ and is held by cables so that it is initially compressed 120 mm. The package has a velocity of 2.5 m/s in the position shown and the maximum deflection of the spring is 40 mm.



Determine:

- the coefficient of kinetic friction between the package and surface
- the velocity of the package as it passes again through the position shown.