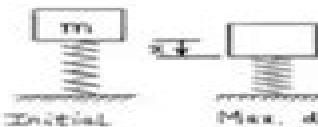


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The maximum force  $F = kx$  occurs when  $x$  is a maximum with  $\dot{x} = 0$ .

$$U_1 + \Delta T: mgs - \frac{1}{2}kx^2 = 0, \quad x = \frac{2mg}{k}$$

$$\text{So } F = kx = 2mg$$

$$3/129 \quad T_A + U_{A \rightarrow C} = T_C: 0 + 2mgR = \frac{1}{2}mv_C^2, \quad v_C^2 = 4gR$$

$$\sum F_n = ma_n: N_B = m \frac{4gR}{R} = 4mg$$

$$3/130 \quad T_A + U_{A \rightarrow C} = T_C: 0 + 3mgR = \frac{1}{2}mv_C^2, \quad v_C^2 = 6gR$$

$$\sum F_n = ma_n: N_C - mg = m \frac{6gR}{R}$$

$$N_C = 7mg$$

(c) Coll. stopping point E:

$$T_A + U_{A \rightarrow E} = T_E$$

$$0 + 2mgR - mg\left(\frac{1}{2}R\right) - \mu_k \frac{1}{2}mgs = 0$$

$$s = \frac{4R}{1 + \mu_k}$$

(Note: Normal force on incline is)

$$N = mg \cos 30^\circ = \frac{\sqrt{3}}{2}mg$$

3/130 Let  $s$  = distance down incline before reversal of direction.

$$U_1 + \Delta T: 100(2)(10 + s - s) - 200(10 + s - s)\frac{3}{5} = 1046 \text{ ft}\cdot\text{lb}$$

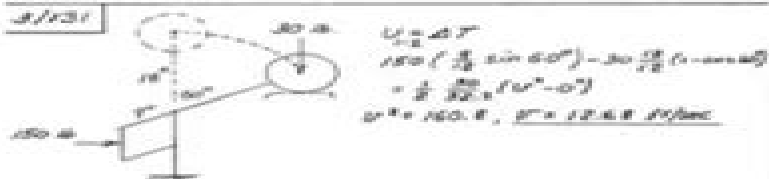
$$\Delta T = \frac{1}{2} \frac{200}{32.2} [v^2 - (27)^2] = 4.66v^2 - 377 \text{ ft}\cdot\text{lb}$$

$$U_2 + \Delta T: 1046 = 4.66v^2 - 377$$

$$v = 17.45 \text{ ft/sec}$$

The initial kinetic energy is positive regardless of the velocity direction.

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$$U_1 + \Delta T$$

$$150 \left( \frac{1}{2} \sin 60^\circ \right) - 30 \frac{1}{2} (v - 0) = 0$$

$$= \frac{1}{2} \frac{150}{32.2} (v^2 - 0^2)$$

$$v^2 = 160.8, \quad v = 12.68 \text{ ft/sec}$$

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$$U_1 + \Delta T: mg(0.8 - 1.2 \cos 60^\circ) = \frac{1}{2}m(12^2 - 0^2)$$

$$kR(0.20) = \frac{1}{2}(12^2 - 0), \quad 12^2 = 12.00, \quad 12 = 3.57 \text{ m/s}$$

3/133

$$+\uparrow \sum F = 0: 9210 - 4T = 0, \quad T = 2300 \text{ N}$$

Length of cable  $L = 4s_0 + \text{constants}$

$$L = 4v_0 = 4(3) = 12 \text{ m/s}$$

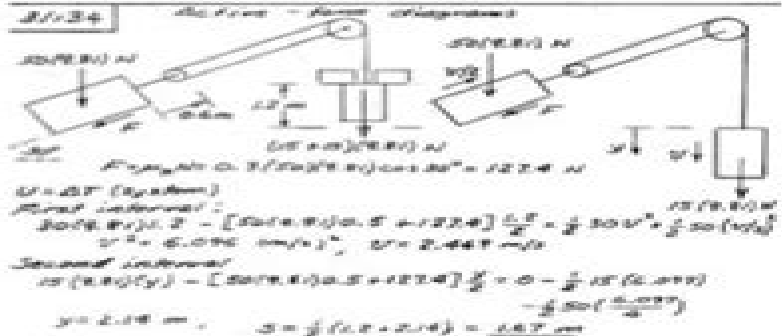
$$P_{\text{out}} = -T\dot{L} = -2300(12) = -27600 \text{ watts}$$

$$\text{or } P_{\text{out}} = -27.6 \text{ kW}$$

$$c = \frac{P_{\text{out}}}{P_{\text{in}}}, \quad P_{\text{in}} = \frac{P_{\text{out}}}{c} = \frac{-27.6}{0.8}$$

$$P_{\text{in}} = 34.5 \text{ kW}$$

3/134



$$F_{\text{friction}} = 0.2(2000 \text{ N}) \cos 30^\circ = 1224 \text{ N}$$

$U_1 + \Delta T$  (system)

First interval:

$$3000(0.2) - [2000(0.20.5) + 1224] \frac{1}{2} = \frac{1}{2} 300 v^2 - \frac{1}{2} 500 (10)^2$$

$$v^2 = 6.096 \text{ (m/s)}^2, \quad v = 2.447 \text{ m/s}$$

Second interval:

$$1000(0.2) - [5000(0.20.5) + 1224] \frac{1}{2} = 0 - \frac{1}{2} 10(2.447)^2$$

$$- \frac{1}{2} 500 \left( \frac{v}{2.447} \right)^2$$

$$s = 2.18 \text{ m}, \quad s = \frac{1}{2}(10 + 2.18) = 1.87 \text{ m}$$

3/135

$$U_1 + \Delta T: -\int_0^s (3x^2 + 60x) dx = \frac{1}{2} \frac{100}{32.2} (0 - v^2) 12$$

$$x^2 + 20x^2 \Big|_0^s = \frac{50}{32.2} v^2, \quad v \text{ in ft/sec.}$$

$$v^2 = \frac{32.2}{50} (60 + 480) = 62.82 \text{ (ft/sec)}^2, \quad v = 25.0 \text{ ft/sec}$$

3/136

$$\Theta = \tan^{-1} \frac{6}{100} = 3.43^\circ$$

$$U_1 + \Delta T: U_2 + mgh = \frac{1}{2} m (v_1^2 - v_2^2)$$

$$U_2 = -1400(1.8)(200 \sin 3.43^\circ)$$

$$+ \frac{1}{2} 1400 \left[ \left( \frac{20}{5.2} \right)^2 - \left( \frac{100}{5.2} \right)^2 \right]$$

$$= -683000 \text{ J} \quad \text{or } -683 \text{ kJ}$$

Energy lost  $Q = 683 \text{ kJ}$

3/137

The power output of the drivetrain is

$$P_{\text{out}} = Fv = 560 \left( \frac{30}{3.6} \right) = 14000 \text{ W}$$

The power input to the drivetrain:

$$P_{\text{in}} = \frac{P_{\text{out}}}{\epsilon} = \frac{14000}{0.70} = 20000 \text{ W}$$

So the motor output  $P = 20 \text{ kW}$

# Solution Manual Engineering Mechanics Dynamics 7th Edition

**Jicheng Xie**



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