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Initial Max. deformation

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

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

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

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

$$(a) \quad \Sigma F_n = ma_n : N_B = m \frac{4gR}{R} = 4mg$$

$$(b) \quad T_A + V_{A-C} = T_C : 0 + 3mgR = \frac{1}{2}mv_C^2, \quad v_C^2 = 6gR$$

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

$$N_C = 7mg$$

(c) Coll. stopping point E:

$$T_A + V_{A-E} = T_E$$

$$0 + 2mgR - mg\left(\frac{1}{2}\right) - \mu_k \frac{15}{2}mg = 0$$

$$s = \frac{4R}{1 + \mu_k 15}$$

(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.

$$U_1 + \Delta T = 100(2)(10 + s - s) - 200(10 + s - s)\frac{5}{13} = 1046 \text{ ft}\cdot\text{lb}$$

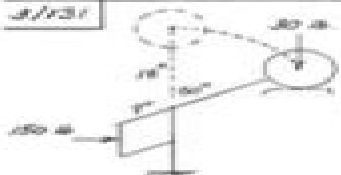
$$\Delta T = \frac{1}{2} \frac{350}{32.2} [v^2 - (17)^2] = 4.66v^2 - 377 \text{ ft}\cdot\text{lb}$$

$$U_1 + \Delta T : 1046 = 4.66v^2 - 377$$

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

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

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$$U_1 + \Delta T$$

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

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

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

$$3/132 \quad U_1 + \Delta T : mg(0.8 - 1.8 \cos 60^\circ)$$

$$= \frac{1}{2}m(12^2 - 9^2)$$

$$R(1)(0.20) = \frac{1}{2}(12^2 - 9^2), \quad 12^2 = 12.92, \quad 12 = 3.59 \text{ m/s}$$

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$$+\uparrow \Sigma F = 0 : 9810 - 4T = 0, \quad T = 2450 \text{ N}$$

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

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

$$P_{\text{out}} = -Tl = -2450(12) = 29400 \text{ watts}$$

$$\text{or } P_{\text{out}} = 29.4 \text{ kW}$$

$$C = \frac{P_{\text{out}}}{P_{\text{in}}}, \quad P_{\text{in}} = \frac{P_{\text{out}}}{C} = \frac{29.4}{0.8}$$

$$P_{\text{in}} = 36.8 \text{ kW}$$

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$$U_1 + \Delta T (\text{system})$$

$$\text{First interval: } 30(9.81)(1.2) - [30(9.81)(0.5 + 1.224)] \frac{1}{2} = \frac{1}{2} 30 v^2 + \frac{1}{2} 30 (10)^2$$

$$v^2 = 6.076 \text{ m/s}^2, \quad v = 2.447 \text{ m/s}$$

$$\text{Second interval: } 15(9.81)(2) - [30(9.81)(0.5 + 1.224)] \frac{1}{2} = 0 - \frac{1}{2} 15 (2.447)^2$$

$$- \frac{1}{2} 30 \left(\frac{5.076}{2}\right)^2$$

$$y = 2.18 \text{ m}, \quad s = \frac{1}{2}(1.2 + 2.18) = 1.69 \text{ m}$$

$$3/135 \quad U_1 + \Delta T : -\int_0^0 (3x^2 + 60x) dx = \frac{1}{2} \frac{400}{32.2} (0 - v^2) 12$$

$$x^2 + 20x^2 \Big|_0^0 = \frac{500}{32.2} v^2, \quad v \text{ in ft/sec.}$$

$$v^2 = \frac{32.2}{500} (60 + 480) = 60.82 (100 \text{ m/s})^2, \quad v = 240 \text{ ft/sec}$$

$$3/136 \quad \Theta = \tan^{-1} \frac{6}{100} = 3.43^\circ$$

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

$$U_1 = -1400(9.81)(200 \sin 3.43^\circ)$$

$$+ \frac{1}{2} 1400 \left[ \left(\frac{20}{5.28}\right)^2 + \left(\frac{100}{5.28}\right)^2 \right]$$

$$= -683,000 \text{ J} \quad \text{or} \quad -683 \text{ kJ}$$

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

3/137 The power output of the drivetrain is

$$P_{\text{out}} = Fv = 540 \left(\frac{30}{3.6}\right) = 14,400 \text{ W}$$

The power input to the drivetrain:

$$P_{\text{in}} = \frac{P_{\text{out}}}{\eta} = \frac{14,400}{0.70} = 20,571 \text{ W}$$

$$\text{So the motor output } P = 20.6 \text{ kW}$$

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**J Spring**



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freely choose their own religious beliefs and that supports liberal social action 27 july 2023 the fellowship artists will also perform at a free community concert on aug 10 at first unitarian universalist church in word of the

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web strictly speaking modern day unitarian universalism is not unitarian in theology despite its name this denomination does not necessarily promote either belief in one god or universal salvation it is merely the inheritor of the unitarian and universalist church system in america

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universalism was organized in 1793 and unitarianism was organized in 1825 the two faiths consolidated into the unitarian universalist association in 1961 this religion combines the richness of both faith traditions

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web also explore the us identity as unitarian universalist since a 1961 merger and its current relationship to international congregations particularly in the context of twentieth century

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web apr 28 2019 according to the christian apologetics and research ministry carm unitarian universalists generally agree that human reason and experience should be the final authority in determining the spiritual truth social justice and serving humanity are two important interests of unitarian universalists you will encounter them fighting for the

