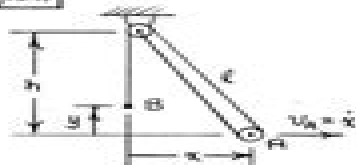


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Length of cable is

$$L = h - y + 2\ell + \text{constant} = h - y + 2\sqrt{x^2 + h^2} + \text{const.}$$

$$\dot{L} = 0 = -\dot{y} + \frac{2xx\dot{x}}{\sqrt{x^2 + h^2}}$$

Substitute v_A for \dot{x} and v_B for \dot{y} :

$$v_B = \frac{2x}{\sqrt{x^2 + h^2}} v_A \quad (\text{4 times as fast as})$$

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2/230



$$\text{Cable length } L = 3(s_B - s_A) + (s_D - s_A)$$

$$0 = 3v_B - 4v_A, \quad 0 = 3a_B - 4a_A$$

$$v_A = \frac{3}{4} v_B = \frac{3}{4} (2) = 1.5 \text{ m/s}$$

$$a_A = \frac{3}{4} a_B = \frac{3}{4} (3) = 2.25 \text{ m/s}^2$$

$$v_{E/A} = v_B - v_A = 2 - (1.5) = 0.5 \text{ m/s}$$

$$a_{E/A} = a_B - a_A = 3 - (2.25) = 0.75 \text{ m/s}^2$$

Length of cable between points E and C:

$$L' = (s_B - s_A) + (s_C - s_A) + \text{constants}$$

$$0 = v_B - 2v_A + v_C \Rightarrow v_C = 2v_A - v_B$$

$$\text{or } v_C = 2(1.5) - 2 = 1 \text{ m/s}$$

(All answers are quantities directed to right)

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$$\dot{x} = u \cos \theta = 200 \cos 60^\circ = 100 \text{ ft/sec}$$

$$\dot{y} = u \sin \theta - gt = 200 \sin 60^\circ - 32.2t = 173.2 - 32.2t$$

$$\text{At } t_1: \dot{x} = \dot{y}: 100 = 173.2 - 32.2t_1, \quad t_1 = 2.27 \text{ sec}$$

$$\text{At } t_2: \dot{x} = -\dot{y}: 100 = -173.2 + 32.2t_2, \quad t_2 = 5.48 \text{ sec}$$

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From A to B $a = 0$ From B to C $a = a_B = v^2/\rho$

$$a_B = \frac{(90 + 44/30)^2}{1000} = 17.42 \text{ ft/sec}^2$$

Abrupt acceleration would cause abrupt forces which would be uncomfortable for passengers. A transition section to change curvature gradually over an interval of track would be required.

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$$r = r_0 + b \sin \frac{2\pi t}{\tau}, \quad \dot{r} = \frac{2\pi}{\tau} b \cos \frac{2\pi t}{\tau}$$

$$\ddot{r} = -\frac{4\pi^2}{\tau^2} b \sin \frac{2\pi t}{\tau}$$

$$a_r = \ddot{r} - r\dot{\theta}^2 = -\frac{4\pi^2}{\tau^2} b \sin \frac{2\pi t}{\tau} - r\dot{\theta}^2 = 0$$

$$\Rightarrow r = r_0 \frac{1}{1 + \left(\frac{2b}{r_0}\right)^2}$$

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$$\dot{x} = 20 \text{ mm/s}, \quad \ddot{x} = 0$$

$$y = x/80, \quad \dot{y} = \dot{x}/80, \quad \ddot{y} = (\dot{x}^2 + x\ddot{x})/80$$

$$v = \sqrt{\dot{x}^2 + \dot{y}^2} = \sqrt{\dot{x}^2 + (\dot{x}/80)^2} = \dot{x} \sqrt{1 + (1/80)^2}$$

$$\text{For } x = 80 \text{ mm}$$

$$v = 20 \sqrt{1 + (60/80)^2} = 25 \text{ mm/s}$$

$$a = \ddot{y} = \dot{x}^2/80 \text{ since } \ddot{x} = 0, \quad a = (60^2)/80 = 45 \text{ mm/s}^2$$

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$$y = 40 \sin \theta, \quad v^2 = v_x^2 + v_y^2; \quad 0 = v_x^2 - 2y/102 \quad \text{At } A$$

$$v_y = \sqrt{2(40 \sin \theta)/102} = 15.34 \text{ m/s}$$

$$s = v_y t + \frac{1}{2} a_y t^2; \quad -30 = 15.34t - \frac{9.81}{2} t^2$$

$$t^2 - 3.128t - 6.116 = 0$$

$$t = 4.49 \text{ s} \quad (t = -1.36 \text{ s})$$

$$x = 40 \cos \theta, \quad 40 = v_x (4.49), \quad v_x = 8.91 \text{ m/s}$$

$$u = \sqrt{(8.91)^2 + (15.34)^2} = 17.74 \text{ m/s}$$

$$\theta_1 = \tan^{-1} \frac{15.34}{8.91} = 59.34^\circ; \quad \theta_2 = \tan^{-1} \frac{8.91}{15.34} = 30.65^\circ$$

$$\theta = \theta_1 - \theta_2 = 59.34^\circ - 30.65^\circ = 28.7^\circ$$

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