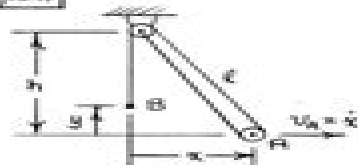


2/227



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} :

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

2/228



2/229



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)

2/231



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

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

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

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

2/232

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

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

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.

2/233

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

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

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

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

2/234

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

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

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

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

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

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

2/235

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

$$v_y = \sqrt{2(9.8)(40)} = 28 \text{ m/s}$$

$$s = v_y t + \frac{1}{2} g t^2; \quad -40 = 28t - \frac{1}{2} (9.8)t^2$$

$$4.9t^2 - 28t - 40 = 0$$

$$t = 6.49 \text{ s} \quad (t = -1.36 \text{ s})$$

$$s = 40 \text{ m} \quad (s = -1.36 \text{ m})$$

$$u = \sqrt{(28)^2 + (15.34)^2} = 31.74 \text{ m/s}$$

$$\theta_1 = \tan^{-1} \frac{15.34}{28} = 28.34^\circ; \quad \theta_2 = \tan^{-1} \frac{28}{15.34} = 60.87^\circ$$

$$\theta = \theta_1 + \theta_2 = 28.34 + 60.87 = 89.2^\circ$$

Meriam Solution Manual

Michal Rosen-Zvi



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Table of Contents Meriam Solution Maunal

1. Understanding the eBook Meriam Solution Maunal
 - The Rise of Digital Reading Meriam Solution Maunal
 - Advantages of eBooks Over Traditional Books
2. Identifying Meriam Solution Maunal
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Meriam Solution Maunal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Meriam Solution Maunal
 - Personalized Recommendations
 - Meriam Solution Maunal User Reviews and Ratings
 - Meriam Solution Maunal and Bestseller Lists
5. Accessing Meriam Solution Maunal Free and Paid eBooks

- Meriam Solution Maunal Public Domain eBooks
- Meriam Solution Maunal eBook Subscription Services
- Meriam Solution Maunal Budget-Friendly Options
- 6. Navigating Meriam Solution Maunal eBook Formats
 - ePub, PDF, MOBI, and More
 - Meriam Solution Maunal Compatibility with Devices
 - Meriam Solution Maunal Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Meriam Solution Maunal
 - Highlighting and Note-Taking Meriam Solution Maunal
 - Interactive Elements Meriam Solution Maunal
- 8. Staying Engaged with Meriam Solution Maunal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Meriam Solution Maunal
- 9. Balancing eBooks and Physical Books Meriam Solution Maunal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Meriam Solution Maunal
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Meriam Solution Maunal
 - Setting Reading Goals Meriam Solution Maunal
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Meriam Solution Maunal
 - Fact-Checking eBook Content of Meriam Solution Maunal
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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