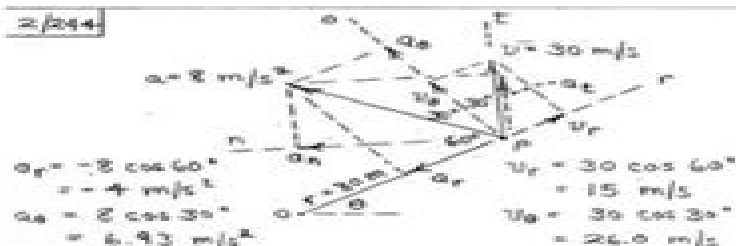


2/244



$[r-\theta] \quad v_r = \dot{r} = 15 \text{ m/s}$
 $v_\theta = r\dot{\theta} = 26.0 = 80\dot{\theta} \Rightarrow \dot{\theta} = 0.325 \text{ rad/s}$
 $a_r = \ddot{r} - r\dot{\theta}^2 = -4 = \ddot{r} - 80(0.325)^2 \Rightarrow \ddot{r} = 4.44 \text{ m/s}^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 6.93 = 80\ddot{\theta} + 2(15)(0.325) \Rightarrow \ddot{\theta} = 0.0352 \text{ rad/s}^2$

$[n-t] : a_n = 8 \cos 30^\circ = 6.93 \text{ m/s}^2$
 $a_t = 8 \sin 30^\circ = 4 \text{ m/s}^2$
 $s_n = \frac{v^2}{r} ; r = \frac{v^2}{a_n} = \frac{30^2}{6.93} = 129.7 \text{ m}$

2/245

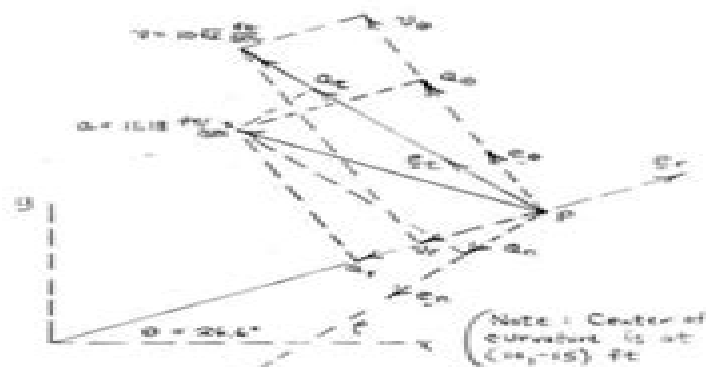


$L = (s_B - s_A) + 2\sqrt{s_A^2 + s_B^2}$
 $0 = -v_A + 2(s_A v_A + s_B v_B) / \sqrt{s_A^2 + s_B^2}$
 $\Rightarrow v_B = \left[\sqrt{1 + (s_B/s_A)^2} - 2 \right] \frac{v_A}{2(s_B/s_A)}$
 $\theta = 45^\circ : v_B = -0.293 v_A = -0.293(-1) = 0.293 \frac{\text{ft}}{\text{s}}$
 $\theta = 30^\circ : v_B = 0$
 $\theta = 15^\circ : v_B = 0.250 v_A = 0.250(-1) = -0.250 \frac{\text{ft}}{\text{s}}$

2/246

$\begin{cases} x = 50 \text{ ft} & \dot{x} = -10 \text{ ft/sec} & \ddot{x} = -10 \text{ ft/sec}^2 \\ y = 25 \text{ ft} & \dot{y} = 10 \text{ ft/sec} & \ddot{y} = 5 \text{ ft/sec}^2 \end{cases}$
 $v = \sqrt{\dot{x}^2 + \dot{y}^2} = \sqrt{(-10)^2 + 10^2} = 10\sqrt{2} \text{ ft/sec}$
 $a = \sqrt{\ddot{x}^2 + \ddot{y}^2} = \sqrt{(-10)^2 + 5^2} = 11.18 \text{ ft/sec}^2$
 $s_n = \frac{v^2}{a} = \frac{(-10)^2 + 10^2}{11.18} = \frac{100}{11.18} = 8.94 \text{ ft}$
 $a_n = \frac{v^2}{s_n} = \frac{(-10)^2 + 10^2}{8.94} = \frac{100}{8.94} = 11.18 \text{ ft/sec}^2$
 $a_t = \frac{d}{dt} \left(\frac{v^2}{2} \right) = \frac{d}{dt} \left(\frac{(-10)^2 + 10^2}{2} \right) = \frac{d}{dt} (100) = 0$
 $a_n = \frac{v^2}{s_n} = \frac{(-10)^2 + 10^2}{8.94} = \frac{100}{8.94} = 11.18 \text{ ft/sec}^2$
 $r = \frac{v^2}{a_n} = \frac{(-10)^2 + 10^2}{11.18} = 8.94 \text{ ft}$
 $s_n = \frac{v^2}{a_n} = \frac{(-10)^2 + 10^2}{11.18} = 8.94 \text{ ft}$
 $e_r = \frac{x}{r} = \frac{50}{8.94} = 5.60$
 $e_\theta = \frac{y}{r} = \frac{25}{8.94} = 2.80$
 $v_r = \dot{r} = \frac{d}{dt} \left(\frac{v^2}{a_n} \right) = \frac{d}{dt} \left(\frac{(-10)^2 + 10^2}{11.18} \right) = 0$
 $v_\theta = r\dot{\theta} = \frac{d}{dt} \left(\frac{v^2}{a_n} \right) = \frac{d}{dt} \left(\frac{(-10)^2 + 10^2}{11.18} \right) = 0$
 $a_r = \ddot{r} = \frac{d}{dt} \left(\frac{v^2}{a_n} \right) = \frac{d}{dt} \left(\frac{(-10)^2 + 10^2}{11.18} \right) = 0$
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$a_n = \frac{v^2}{s_n} = \frac{(-10)^2 + 10^2}{8.94} = \frac{100}{8.94} = 11.18 \text{ ft/sec}^2$
 $s_n = \frac{v^2}{a_n} = \frac{(-10)^2 + 10^2}{11.18} = 8.94 \text{ ft}$
 $r = \frac{v^2}{a_n} = \frac{(-10)^2 + 10^2}{11.18} = 8.94 \text{ ft}$
 $\dot{r} = v_r = 0$
 $\dot{\theta} = \frac{v_\theta}{r} = \frac{0}{8.94} = 0$
 $a_r = \ddot{r} = 0$
 $a_\theta = r\ddot{\theta} = 0$
 $\theta = \tan^{-1} \left(\frac{y}{x} \right) = \tan^{-1} \left(\frac{25}{50} \right) = 26.6^\circ$



Kinematics And Dynamics Meriam Solution Manual

Mr. Rohit Manglik



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Table of Contents Kinematics And Dynamics Meriam Solution Manual

1. Understanding the eBook Kinematics And Dynamics Meriam Solution Manual
 - The Rise of Digital Reading Kinematics And Dynamics Meriam Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Kinematics And Dynamics Meriam Solution Manual
 - 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 Kinematics And Dynamics Meriam Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kinematics And Dynamics Meriam Solution Manual
 - Personalized Recommendations
 - Kinematics And Dynamics Meriam Solution Manual User Reviews and Ratings
 - Kinematics And Dynamics Meriam Solution Manual and Bestseller Lists
5. Accessing Kinematics And Dynamics Meriam Solution Manual Free and Paid eBooks
 - Kinematics And Dynamics Meriam Solution Manual Public Domain eBooks
 - Kinematics And Dynamics Meriam Solution Manual eBook Subscription Services

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