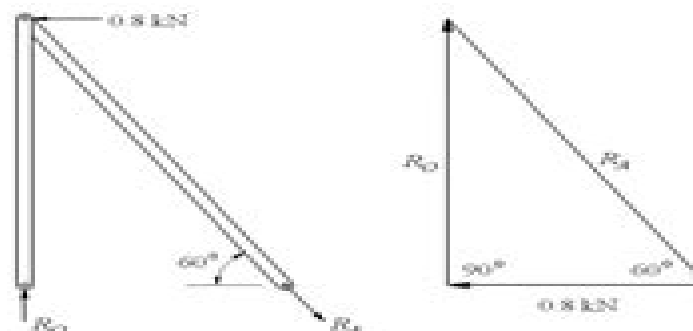


3-3

$$R_O = \frac{0.8}{\tan 30^\circ} = 1.39 \text{ kN} \quad \text{Ans.}$$

$$R_A = \frac{0.8}{\sin 30^\circ} = 1.6 \text{ kN} \quad \text{Ans.}$$



3-4

Step 1: Find R_A & R_E

$$h = \frac{4.5}{\tan 30^\circ} = 7.794 \text{ m}$$

$$\Sigma M_A = 0$$

$$9R_E - 7.794(400 \cos 30^\circ) - 4.5(400 \sin 30^\circ) = 0$$

$$R_E = 400 \text{ N} \quad \text{Ans.}$$

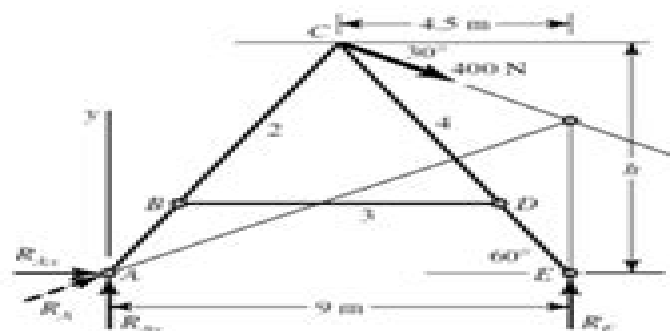
$$\Sigma F_x = 0 \quad R_{Ax} + 400 \cos 30^\circ = 0$$

$$R_{Ax} = -346.4 \text{ N}$$

$$\Sigma F_y = 0 \quad R_{Ay} + 400 - 400 \sin 30^\circ = 0$$

$$R_{Ay} = -200 \text{ N}$$

$$R_A = \sqrt{346.4^2 + 200^2} = 400 \text{ N} \quad \text{Ans.}$$



Step 2: Find components of R_C on link 4 and R_D

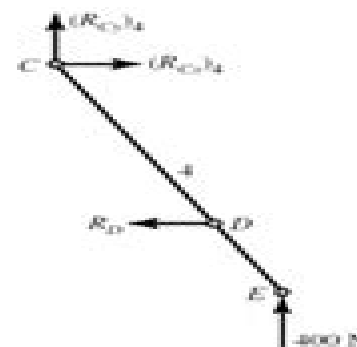
$$\Sigma M_C = 0$$

$$400(4.5) - (7.794 - 1.9)R_D = 0$$

$$R_D = 305.4 \text{ N} \quad \text{Ans.}$$

$$\Sigma F_x = 0 \Rightarrow (R_C)_x = 305.4 \text{ N}$$

$$\Sigma F_y = 0 \Rightarrow (R_C)_y = -400 \text{ N}$$



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R. S. Ryan



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Table of Contents Mechanical Engineering Design 9th Edition Solutions

1. Understanding the eBook Mechanical Engineering Design 9th Edition Solutions
 - The Rise of Digital Reading Mechanical Engineering Design 9th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Design 9th Edition Solutions
 - 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 Mechanical Engineering Design 9th Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Design 9th Edition Solutions

- Personalized Recommendations
- Mechanical Engineering Design 9th Edition Solutions User Reviews and Ratings
- Mechanical Engineering Design 9th Edition Solutions and Bestseller Lists
- 5. Accessing Mechanical Engineering Design 9th Edition Solutions Free and Paid eBooks
 - Mechanical Engineering Design 9th Edition Solutions Public Domain eBooks
 - Mechanical Engineering Design 9th Edition Solutions eBook Subscription Services
 - Mechanical Engineering Design 9th Edition Solutions Budget-Friendly Options
- 6. Navigating Mechanical Engineering Design 9th Edition Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering Design 9th Edition Solutions Compatibility with Devices
 - Mechanical Engineering Design 9th Edition Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering Design 9th Edition Solutions
 - Highlighting and Note-Taking Mechanical Engineering Design 9th Edition Solutions
 - Interactive Elements Mechanical Engineering Design 9th Edition Solutions
- 8. Staying Engaged with Mechanical Engineering Design 9th Edition Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Design 9th Edition Solutions
- 9. Balancing eBooks and Physical Books Mechanical Engineering Design 9th Edition Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Design 9th Edition Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Design 9th Edition Solutions
 - Setting Reading Goals Mechanical Engineering Design 9th Edition Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Design 9th Edition Solutions

- Fact-Checking eBook Content of Mechanical Engineering Design 9th Edition Solutions
- 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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