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4-97. In order to turn over the frame, a couple moment is applied as shown. If the component of this couple moment along the x axis is $M_x = (-20\text{ k})\text{ N}\cdot\text{m}$, determine the magnitude F of the couple forces.

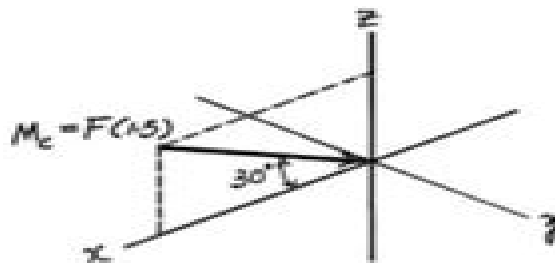


$$M_x = F(3.25)$$

Then

$$20 = F(3.25)\sin 30^\circ$$

$$F = 12.4\text{ kN} \quad \text{Ans}$$



4-98. Determine the resultant couple moment of the two couples that act on the pipe assembly. The distance from A to B is $d = 400\text{ mm}$. Express the result as a Cartesian vector.

Vector Analysis

Position Vector :

$$\mathbf{r}_{AB} = (10.33 - 0.33)\mathbf{i} + (-0.4\cos 30^\circ - 0)\mathbf{j} + (0.4\sin 30^\circ - 0)\mathbf{k} \text{ m}$$

$$= (-10.340)\mathbf{j} + 0.20\mathbf{k} \text{ m}$$

Couple Moments : With $\mathbf{F}_1 = (20\text{ k})\text{ N}$ and $\mathbf{F}_2 = (-50\text{ k})\text{ N}$, applying Eq. 4-12, we have

$$(\mathbf{M}_c)_1 = \mathbf{r}_{AB} \times \mathbf{F}_1$$

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -0.340 & 0.20 \\ 0 & 0 & 20 \end{vmatrix} = (-12.12)\text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_2 = \mathbf{r}_{AB} \times \mathbf{F}_2$$

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -0.340 & 0.20 \\ 0 & 0 & -50 \end{vmatrix} = (-16.0)\mathbf{j} + (17.32\mathbf{k})\text{ N}\cdot\text{m}$$



Resultant Couple Moment :

$$\mathbf{M}_c = \mathbf{M}_1 + \mathbf{M}_2 = (\mathbf{M}_c)_1 + (\mathbf{M}_c)_2$$

$$= (-12.12 - 16.0)\mathbf{j} + (17.32)\text{ N}\cdot\text{m} \quad \text{Ans}$$

Scalar Analysis : Summing moments about x , y and z axes, we have

$$(\mathbf{M}_c)_x = \Sigma M_x : \quad (\mathbf{M}_c)_x = -20(0.4\sin 30^\circ) = -12.12\text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_y = \Sigma M_y : \quad (\mathbf{M}_c)_y = -50(0.4\cos 30^\circ) = -16.0\text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_z = \Sigma M_z : \quad (\mathbf{M}_c)_z = -50(0.4\sin 30^\circ) = -17.32\text{ N}\cdot\text{m}$$

Express $\mathbf{M}_c$ as a Cartesian vector, we have

$$\mathbf{M}_c = (-12.12 - 16.0)\mathbf{j} + (17.32)\text{ N}\cdot\text{m}$$

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Table of Contents Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution

1. Understanding the eBook Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - The Rise of Digital Reading Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - 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 Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Personalized Recommendations
 - Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution User Reviews and Ratings

- Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution and Bestseller Lists
- 5. Accessing Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution Free and Paid eBooks
 - Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution Public Domain eBooks
 - Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution eBook Subscription Services
 - Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution Budget-Friendly Options
- 6. Navigating Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution Compatibility with Devices
 - Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Highlighting and Note-Taking Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Interactive Elements Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
- 8. Staying Engaged with Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
- 9. Balancing eBooks and Physical Books Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Setting Reading Goals Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - Fact-Checking eBook Content of Hibbeler Statics 12th Edition Solutions Chapter 4 Images Solution
 - 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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