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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.

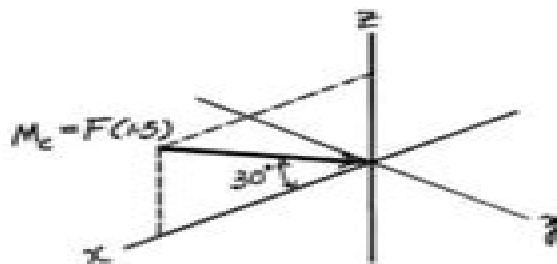


$$M_x = F(3.25)$$

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 :

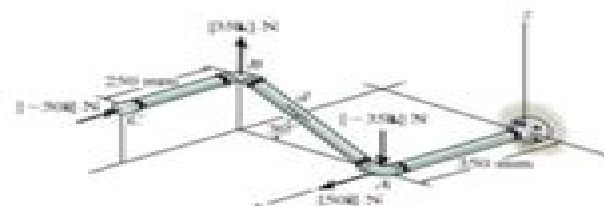
$$\mathbf{r}_{AB} = (10\cos 30^\circ - 0.35)\mathbf{i} + (-0.4\cos 30^\circ - 0)\mathbf{j} + (0.4\cos 30^\circ - 0)\mathbf{k} \text{ m}$$

$$= (-0.3464)\mathbf{i} + 0.20\mathbf{k} \text{ m}$$

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

$$(\mathbf{M}_c)_1 = \mathbf{r}_{AB} \times \mathbf{F}_1 = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ -0.3464 & 0 & 0.20 \\ 0 & 0 & 20 \end{vmatrix} = (-12.12)\mathbf{j} \text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_2 = \mathbf{r}_{AB} \times \mathbf{F}_2 = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ -0.3464 & 0 & 0.20 \\ 0 & 0 & -50 \end{vmatrix} = (-10.0)\mathbf{j} + (17.32\mathbf{k}) \text{ N}\cdot\text{m}$$



Resultant Couple Moment :

$$\mathbf{M}_c = \mathbf{M}_1 + \mathbf{M}_2 = (\mathbf{M}_c)_1 + (\mathbf{M}_c)_2 = (-12.12\mathbf{j} - 10.0\mathbf{j} - 17.32\mathbf{k}) \text{ N}\cdot\text{m} \quad \text{Ans}$$

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

$$\begin{aligned} (\mathbf{M}_c)_x &= \Sigma M_x = 0 & (\mathbf{M}_c)_y &= -20(0.4\cos 30^\circ) = -12.12 \text{ N}\cdot\text{m} \\ (\mathbf{M}_c)_y &= \Sigma M_y = 0 & (\mathbf{M}_c)_z &= -50(0.35\cos 30^\circ) = -10.0 \text{ N}\cdot\text{m} \\ (\mathbf{M}_c)_z &= \Sigma M_z = 0 & (\mathbf{M}_c)_x &= -50(0.4\cos 30^\circ) = -17.32 \text{ N}\cdot\text{m} \end{aligned}$$

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

$$\mathbf{M}_c = (-12.12 - 10.0)\mathbf{j} - 17.32\mathbf{k} \text{ N}\cdot\text{m}$$

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Chapter 4

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Table of Contents Engineering Mechanics Statics 12th Edition Solutions Chapter 4

1. Understanding the eBook Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - The Rise of Digital Reading Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - 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 Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Statics 12th Edition Solutions Chapter 4

- Personalized Recommendations
 - Engineering Mechanics Statics 12th Edition Solutions Chapter 4 User Reviews and Ratings
 - Engineering Mechanics Statics 12th Edition Solutions Chapter 4 and Bestseller Lists
5. Accessing Engineering Mechanics Statics 12th Edition Solutions Chapter 4 Free and Paid eBooks
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 - Engineering Mechanics Statics 12th Edition Solutions Chapter 4 Budget-Friendly Options
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 - Engineering Mechanics Statics 12th Edition Solutions Chapter 4 Enhanced eBook Features
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 - Highlighting and Note-Taking Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - Interactive Elements Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 8. Staying Engaged with Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 9. Balancing eBooks and Physical Books Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - Setting Reading Goals Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Mechanics Statics 12th Edition Solutions Chapter 4

- Fact-Checking eBook Content of Engineering Mechanics Statics 12th Edition Solutions Chapter 4
 - 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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