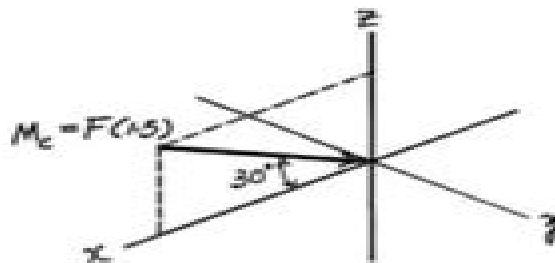


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4-97. In order to turn over the frame, a couple moment is applied as shown. If the component of this couple moment along the  $x$  axis is  $M_x = (-20\text{ k})\text{ N}\cdot\text{m}$ , determine the magnitude  $F$  of the couple forces.



$$M_c = F(1.5)$$

Then

$$20 = F(1.5)\sin 30^\circ$$

$$F = 13.3\text{ kN} \quad \text{Ans}$$

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 :**

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

$$= (-10.000)\mathbf{j} + 0.200\mathbf{k} \text{ m}$$

**Couple Moments :** With  $\mathbf{F}_1 = (150\text{ N})$  and  $\mathbf{F}_2 = (-375\text{ N})$ , applying Eq. 4-12, we have

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -10.000 & 0.200 \\ 0 & 0 & 0 \end{vmatrix} = (-12.12)\mathbf{i} \text{ N}\cdot\text{m}$$

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -10.000 & 0.200 \\ 0 & 0 & 0 \end{vmatrix} = (-10.00)\mathbf{j} + (17.32)\mathbf{k} \text{ N}\cdot\text{m}$$

**Resultant Couple Moment :**

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

$$= (-12.12 - 10.00)\mathbf{j} + (17.32)\mathbf{k} \text{ N}\cdot\text{m} \quad \text{Ans}$$

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

$$(\mathbf{M}_c)_1 = \Sigma M_x : \quad (\mathbf{M}_c)_1 = -10(0.4\cos 30^\circ) = -12.12 \text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_2 = \Sigma M_x : \quad (\mathbf{M}_c)_2 = -50(0.4\sin 30^\circ) = -10.0 \text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_1 = \Sigma M_y : \quad (\mathbf{M}_c)_1 = -50(0.4\cos 30^\circ) = -17.32 \text{ N}\cdot\text{m}$$

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

$$\mathbf{M}_c = (-12.12 - 10.00)\mathbf{j} + (17.32)\mathbf{k} \text{ N}\cdot\text{m}$$

# Hibbeler Statics 12th Edition Solutions Chapter

**Peter Schiavone**



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## **Table of Contents Hibbeler Statics 12th Edition Solutions Chapter**

1. Understanding the eBook Hibbeler Statics 12th Edition Solutions Chapter
  - The Rise of Digital Reading Hibbeler Statics 12th Edition Solutions Chapter
  - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Statics 12th Edition Solutions Chapter
  - 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
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Statics 12th Edition Solutions Chapter
  - Personalized Recommendations
  - Hibbeler Statics 12th Edition Solutions Chapter User Reviews and Ratings
  - Hibbeler Statics 12th Edition Solutions Chapter and Bestseller Lists
5. Accessing Hibbeler Statics 12th Edition Solutions Chapter Free and Paid eBooks
  - Hibbeler Statics 12th Edition Solutions Chapter Public Domain eBooks
  - Hibbeler Statics 12th Edition Solutions Chapter eBook Subscription Services
  - Hibbeler Statics 12th Edition Solutions Chapter Budget-Friendly Options

6. Navigating Hibbeler Statics 12th Edition Solutions Chapter eBook Formats
  - ePub, PDF, MOBI, and More
  - Hibbeler Statics 12th Edition Solutions Chapter Compatibility with Devices
  - Hibbeler Statics 12th Edition Solutions Chapter Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hibbeler Statics 12th Edition Solutions Chapter
  - Highlighting and Note-Taking Hibbeler Statics 12th Edition Solutions Chapter
  - Interactive Elements Hibbeler Statics 12th Edition Solutions Chapter
8. Staying Engaged with Hibbeler Statics 12th Edition Solutions Chapter
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hibbeler Statics 12th Edition Solutions Chapter
9. Balancing eBooks and Physical Books Hibbeler Statics 12th Edition Solutions Chapter
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hibbeler Statics 12th Edition Solutions Chapter
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
  - Setting Reading Goals Hibbeler Statics 12th Edition Solutions Chapter
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hibbeler Statics 12th Edition Solutions Chapter
  - Fact-Checking eBook Content of Hibbeler Statics 12th Edition Solutions Chapter
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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