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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.

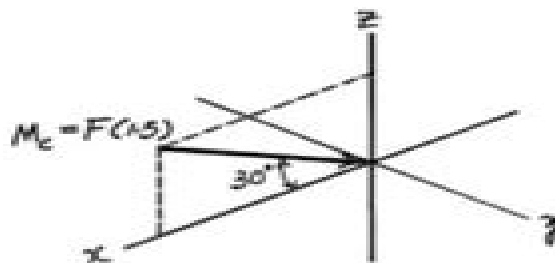


$$M_x = F(3.5)$$

Then

$$20 = F(3.5)\sin 30^\circ$$

$$F = 11.4\text{ kN} \quad \text{Ans}$$



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

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

# Hibbeler Statics 12th Edition Solutions Chapter 4

## Images Solution

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