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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.

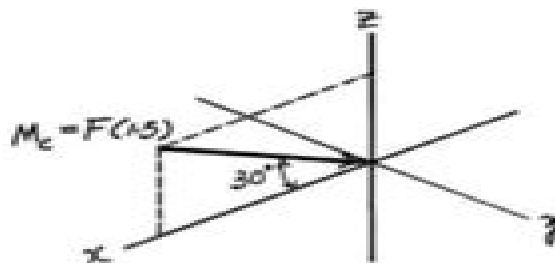


$$M_c = F(3.5)$$

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 :

$$\mathbf{r}_{AB} = (10.38 - 0.38)\mathbf{i} + (-0.4\cos 30^\circ - 0)\mathbf{j} + (0.4\sin 30^\circ - 0)\mathbf{k} \text{ m}$$

$$= (-0.3464)\mathbf{j} + 0.2\mathbf{k} \text{ m}$$

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

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -0.3464 & 0.20 \\ 0 & 0 & 20 \end{vmatrix} = (-12.12)\mathbf{i} \text{ N}\cdot\text{m}$$

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -0.3464 & 0.20 \\ 0 & 0 & -50 \end{vmatrix} = (-18.0)\mathbf{j} + (17.32\mathbf{k}) \text{ N}\cdot\text{m}$$



Resultant Couple Moment :

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

$$= (-12.12 - 18.0)\mathbf{j} + (17.32)\mathbf{k} \text{ N}\cdot\text{m} \quad \text{Ans}$$

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

$$(\mathbf{M}_c)_1 = \Sigma M_x : (\mathbf{M}_c)_1 = -20(0.4\sin 30^\circ) = -12.12 \text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_2 = \Sigma M_x : (\mathbf{M}_c)_2 = -50(0.4\cos 30^\circ) = -18.0 \text{ N}\cdot\text{m}$$

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

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

$$\mathbf{M}_c = (-12.12 - 18.0)\mathbf{j} + (17.32)\mathbf{k} \text{ N}\cdot\text{m}$$

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