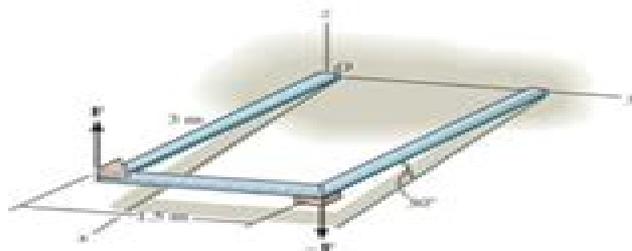


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4-97. In order to turn over the frame, a couple moment is applied as shown. If the component of this couple moment along the x axis is $M_x = [-20k] \text{ N}\cdot\text{m}$, determine the magnitude F of the couple forces.

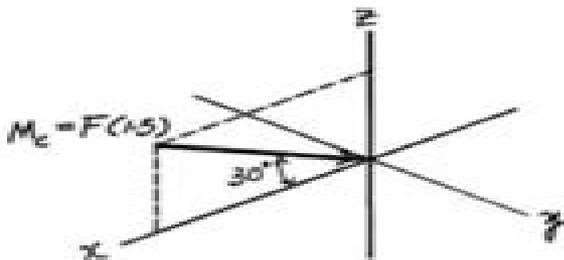


$M_x = F(3)$

Then

$20 = F(3) \sin 30^\circ$

$F = 13.4 \text{ N} \quad \text{Ans}$



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:

$$\mathbf{r}_{AB} = (0.30\mathbf{i} - 0.30\mathbf{j}) + (-0.40\mathbf{i} \cos 30^\circ - 0\mathbf{j}) + (0.40\mathbf{i} \sin 30^\circ - 0\mathbf{k}) \text{ m}$$

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

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

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

$$(\mathbf{M}_c)_2 = \mathbf{r}_{AB} \times \mathbf{F}_2 = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -0.3464 & 0 \\ 0 & 0 & -20 \end{vmatrix} = [-12.12\mathbf{j} - 17.32\mathbf{k}] \text{ N}\cdot\text{m}$$



Resultant Couple Moment:

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

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

$$\begin{aligned} (\mathbf{M}_c)_x &= \Sigma M_x: & (\mathbf{M}_c)_x &= -20(0.40 \sin 30^\circ) = -12.12 \text{ N}\cdot\text{m} \\ (\mathbf{M}_c)_y &= \Sigma M_y: & (\mathbf{M}_c)_y &= -20(0.40 \cos 30^\circ) = -17.32 \text{ N}\cdot\text{m} \\ (\mathbf{M}_c)_z &= \Sigma M_z: & (\mathbf{M}_c)_z &= -20(0.40 \sin 30^\circ) = -12.12 \text{ N}\cdot\text{m} \end{aligned}$$

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

$$\mathbf{M}_c = [-12.12\mathbf{j} - 17.32\mathbf{k}] \text{ N}\cdot\text{m}$$

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