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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.

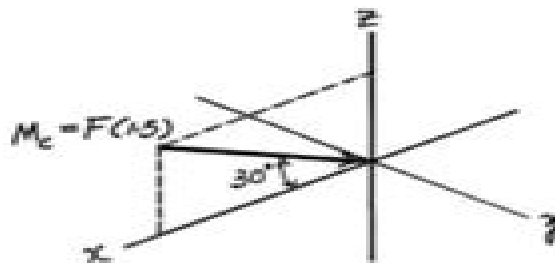


$$M_x = F(3.25)$$

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 :**

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

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

**Couple Moments :** With  $\mathbf{F}_1 = (20\text{ N})\mathbf{j}$  and  $\mathbf{F}_2 = (-50\text{ N})\mathbf{j}$ , applying Eq. 4-12, we have

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

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



**Resultant Couple Moment :**

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

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

$$\begin{aligned} (M_c)_1 &= \Sigma M_x & (M_c)_1 &= -20(0.4\sin 30^\circ) = -12.12 \text{ N}\cdot\text{m} \\ (M_c)_2 &= \Sigma M_x & (M_c)_2 &= -50(0.4\sin 30^\circ) = -10.0 \text{ N}\cdot\text{m} \\ (M_c)_1 &= \Sigma M_z & (M_c)_1 &= -50(0.4\cos 30^\circ) = -17.32 \text{ N}\cdot\text{m} \end{aligned}$$

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

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

# Engineering Mechanics Statics 12th Edition Solutions

## Chapter 4

**B Lingard**



## **Engineering Mechanics Statics 12th Edition Solutions Chapter 4:**

## **Engineering Mechanics Statics 12th Edition Solutions Chapter 4** Book Review: Unveiling the Magic of Language

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