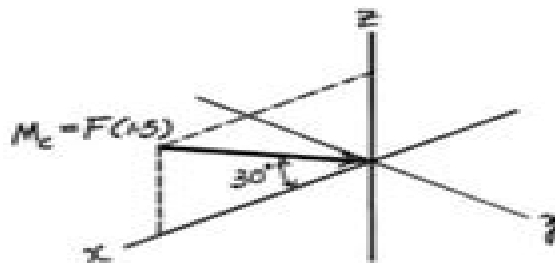


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4-97. In order to turn over the frame, a couple moment is applied as shown. If the component of this couple moment along the x axis is $M_x = (-20\text{ k})\text{ N}\cdot\text{m}$, determine the magnitude F of the couple forces.



$$M_x = F(15)$$

Then

$$20 = F(15)\sin 30^\circ$$

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

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 $\mathbf{F}_1 = (500\text{ N})$ and $\mathbf{F}_2 = (-500\text{ N})$, applying Eq. 4-12, we have

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

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

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -10.000 & 0.200 \\ 0 & 0 & 0 \end{vmatrix} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{vmatrix} = (-10.0)\text{ N}\cdot\text{m}$$

Resultant Couple Moment :

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

$$= (-12.12 - 10.0)\mathbf{i} = -22.12\text{ N}\cdot\text{m} \quad \text{Ans}$$

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

$$(\mathbf{M}_1)_x = \mathbf{r}_{AB} \times \mathbf{F}_1 \quad (\mathbf{M}_1)_x = -10(0.4\cos 30^\circ) = -12.12\text{ N}\cdot\text{m}$$

$$(\mathbf{M}_2)_x = \mathbf{r}_{AB} \times \mathbf{F}_2 \quad (\mathbf{M}_2)_x = -50(0.4\sin 30^\circ) = -10.0\text{ N}\cdot\text{m}$$

$$(\mathbf{M}_R)_x = \mathbf{M}_1 + \mathbf{M}_2 \quad (\mathbf{M}_R)_x = -20(0.4\cos 30^\circ) = -22.12\text{ N}\cdot\text{m}$$

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

$$\mathbf{M}_R = (-22.12 - 10.0)\mathbf{i} = -32.12\text{ N}\cdot\text{m}$$

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