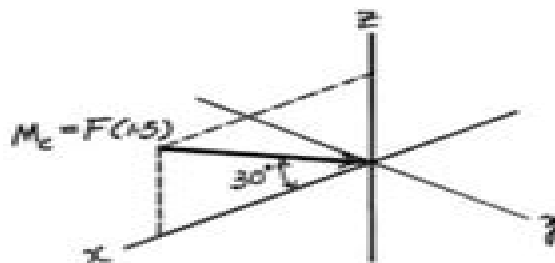


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4-97. In order to turn over the frame, a couple moment is applied as shown. If the component of this couple moment along the  $x$  axis is  $M_x = (-20\text{ k})\text{ N}\cdot\text{m}$ , determine the magnitude  $F$  of the couple forces.



$$M_c = F(1.5)$$

Then

$$20 = F(1.5)\sin 30^\circ$$

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

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 :**

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

$$= (-10.3404)\mathbf{j} + 0.2\mathbf{k} \text{ m}$$

**Couple Moment :** With  $\mathbf{F}_1 = (500\text{ N})$  and  $\mathbf{F}_2 = (-350\text{ N})$ , applying Eq. 4-12, we have

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -10.3404 & 0.2 \\ 0 & 0 & 0 \end{vmatrix} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{vmatrix} = (-12.12)\mathbf{i} \text{ N}\cdot\text{m}$$

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

$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & -10.3404 & 0.2 \\ 0 & 0 & 0 \end{vmatrix} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{vmatrix} = (-17.32)\mathbf{i} \text{ N}\cdot\text{m}$$

**Resultant Couple Moment :**

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

$$= (-12.12 - 17.32)\mathbf{i} \text{ N}\cdot\text{m} \quad \text{Ans}$$

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

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

$$(\mathbf{M}_c)_2 = \Sigma M_i : (\mathbf{M}_c)_2 = -50(0.4\sin 30^\circ) = -10.0 \text{ N}\cdot\text{m}$$

$$(\mathbf{M}_c)_3 = \Sigma M_i : (\mathbf{M}_c)_3 = -50(0.4\cos 30^\circ) = -17.32 \text{ N}\cdot\text{m}$$

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

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

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**R Sandford**



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