

4-46. The pipe assembly is subjected to the 80-N force. Determine the moment of this force about point B .

Position Vector and Force Vector:

$$\mathbf{r}_{B/C} = [(0.53 - 0)\mathbf{i} + (-0.4 - 0)\mathbf{j} + (-0.2 - 0)\mathbf{k}] \text{ m}$$

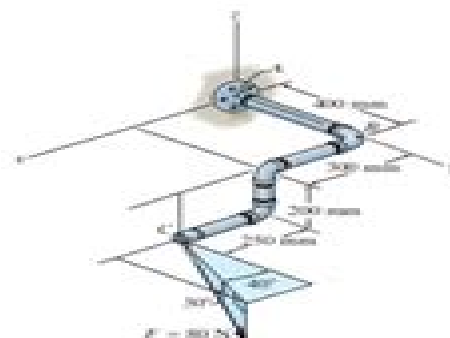
$$= (0.53\mathbf{i} - 0.2\mathbf{k}) \text{ m}$$

$$\mathbf{F} = 80[\cos 30^\circ \sin 40^\circ \mathbf{i} + \cos 30^\circ \cos 40^\circ \mathbf{j} - \sin 30^\circ \mathbf{k}] \text{ N}$$

$$= (44.53\mathbf{i} + 53.07\mathbf{j} - 40.0\mathbf{k}) \text{ N}$$

Moment of Force \mathbf{F} About Point B : Applying Eq. 4-7, we have

$$\begin{aligned} \mathbf{M}_B &= \mathbf{r}_{B/C} \times \mathbf{F} \\ &= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0.53 & 0 & -0.2 \\ 44.53 & 53.07 & -40.0 \end{vmatrix} \\ &= (10.6\mathbf{i} + 13.1\mathbf{j} + 29.2\mathbf{k}) \text{ N} \cdot \text{m} \end{aligned} \quad \text{Ans}$$



4-47. The force $\mathbf{F} = (6\mathbf{i} + 8\mathbf{j} + 10\mathbf{k}) \text{ N}$ creates a moment about point O of $\mathbf{M}_O = (-14\mathbf{i} + 8\mathbf{j} + 2\mathbf{k}) \text{ N} \cdot \text{m}$. If the force passes through a point having an x coordinate of 1 m, determine the y and z coordinates of the point. Also, realizing that $M_O = Fd$, determine the perpendicular distance d from point O to the line of action of \mathbf{F} .

$$-14\mathbf{i} + 8\mathbf{j} + 2\mathbf{k} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 1 & y & z \\ 6 & 8 & 10 \end{vmatrix}$$

$$-14 = 10y - 8z$$

$$8 = -10 + 6z$$

$$z = 8 - 6y$$

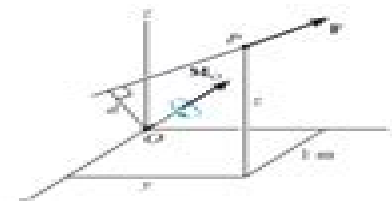
$$y = 1 \text{ m} \quad \text{Ans}$$

$$z = 2 \text{ m} \quad \text{Ans}$$

$$M_O = \sqrt{(-14)^2 + (8)^2 + (2)^2} = 16.25 \text{ N} \cdot \text{m}$$

$$F = \sqrt{(6)^2 + (8)^2 + (10)^2} = 14.14 \text{ N}$$

$$d = \frac{16.25}{14.14} = 1.15 \text{ m} \quad \text{Ans}$$



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A Gutmann



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