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

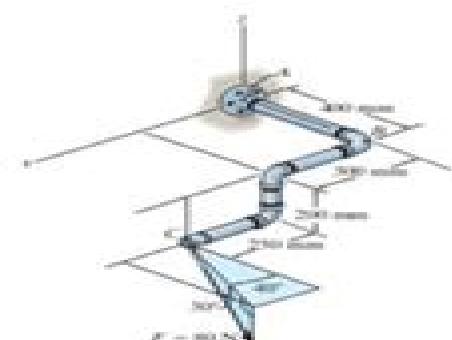
**Position Vector and Force Vector:**

$$\mathbf{r}_{AF} = (0.25 - 0.4 - (-0.4)\mathbf{i} + (-0.2 - 0)\mathbf{k}) \text{ m} \\ = (0.25 - 0.28)\mathbf{i} \text{ m}$$

$$\mathbf{F} = 80 \text{ N} (20^\circ \text{ from } 40^\circ) + \cos(20^\circ) \text{ N} (20^\circ \text{ from } 40^\circ) \mathbf{i} \\ = (64.000 + 23.072 - 60.000)\mathbf{i} \text{ N}$$

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

$$\mathbf{M}_B = \mathbf{r}_{AF} \times \mathbf{F} \\ = \begin{bmatrix} 1 & 0 & 0 \\ 0.25 & 0 & -0.2 \\ 0 & 0.25 & 0 \end{bmatrix} \\ = (0.25 \times 0.25) \mathbf{i} + 20.000 \mathbf{k} \text{ N}\cdot\text{m}$$



4-47. The force  $\mathbf{F} = (100 + 80\mathbf{i} + 100\mathbf{k}) \text{ N}$  creates a moment about point O of  $\mathbf{M}_O = (-100 + 80\mathbf{j} + 20\mathbf{k}) \text{ N}\cdot\text{m}$ . 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  $M_{Oz} = Fd$ , determine the perpendicular distance of from point O to the line of action of  $\mathbf{F}$ .

$$= 100 + 80\mathbf{i} + 20\mathbf{k} = \begin{bmatrix} 100 & 0 & 20 \\ 0 & 80 & 0 \\ 0 & 0 & 100 \end{bmatrix}$$

$$= 100 + 80\mathbf{i} + 80\mathbf{k}$$

$$0 = -100 + 80\mathbf{j}$$

$$2 = 80 - 80\mathbf{j}$$

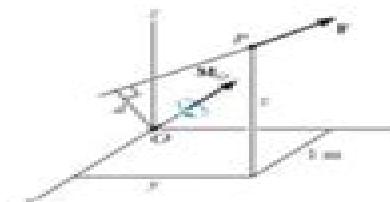
$$x = 1 \text{ m} \quad \text{Ans}$$

$$z = 0 \text{ m} \quad \text{Ans}$$

$$M_O = \sqrt{(-100)^2 + 80^2 + 20^2} = 120.25 \text{ N}\cdot\text{m}$$

$$F = \sqrt{100^2 + 80^2 + 100^2} = 141.44 \text{ N}$$

$$d = \frac{120.25}{141.44} = 0.85 \text{ m} \quad \text{Ans}$$



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**A. Bedford, Wallace L. Fowler**

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