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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.

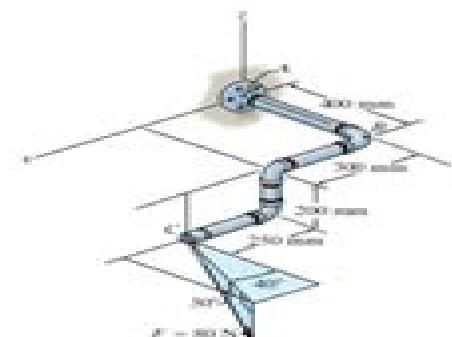
Position Vector And Force Vector:

$$\mathbf{r}_{AF} = (0.25 - 0.1 + 0.4)\mathbf{i} + (-0.2 - 0)\mathbf{k} \text{ m} \\ = (0.35 - 0.2)\mathbf{i} \text{ m}$$

$$\mathbf{F} = 80\text{N}(\cos 30^\circ\mathbf{i} + \sin 30^\circ\mathbf{j} + \cos 30^\circ\mathbf{k}) - \sin 30^\circ\mathbf{k} \text{ N} \\ = (44.28\mathbf{i} + 33.97\mathbf{j} - 40.00\mathbf{k}) \text{ N}$$

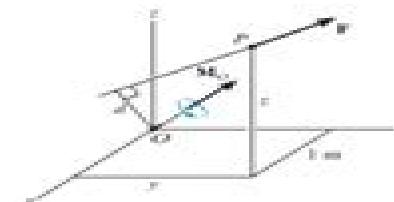
Moment of Force \mathbf{F} About Point B: Applying Eq. 4-7, we have

$$\mathbf{M}_B = \mathbf{r}_{AF} \times \mathbf{F} \\ = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0.35 & 0 & -0.2 \\ 44.28 & 33.97 & -40.0 \end{vmatrix} \text{ N}\cdot\text{m} \\ = (40.00 + 13.12) - 20.28\mathbf{k} \text{ N}\cdot\text{m} \quad \mathbf{M}_{AB}$$



4-47. The force $\mathbf{F} = (14i + 3j + 10k) \text{ N}$ creates a moment about point O of $\mathbf{M}_O = (-14i + 3j + 2k) \text{ N}\cdot\text{m}$. 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 of from point O to the line of action of \mathbf{F} .

$$= 14i + 3j + 2k \text{ N} = \begin{bmatrix} 14 \\ 3 \\ 2 \end{bmatrix} \text{ N} \\ = 14i + 3j + 2k \\ = 14 = 3j + 2k \\ 14 = 14 - 3j \\ 3j = 14 - 14 \\ j = 0 \text{ m} \quad \mathbf{A}_{\text{line}} \\ k = 2 \text{ m} \quad \mathbf{A}_{\text{line}} \\ \mathbf{M}_O = \sqrt{(-14)^2 + (3)^2 + (2)^2} = 16.23 \text{ N}\cdot\text{m} \\ F = \sqrt{14^2 + 3^2 + 2^2} = 14.84 \text{ N} \\ d = \frac{16.23}{14.84} = 1.09 \text{ m} \quad \mathbf{A}_{\text{line}}$$



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foam or hair spray these products will keep your hair in shape long layers vs short layers

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