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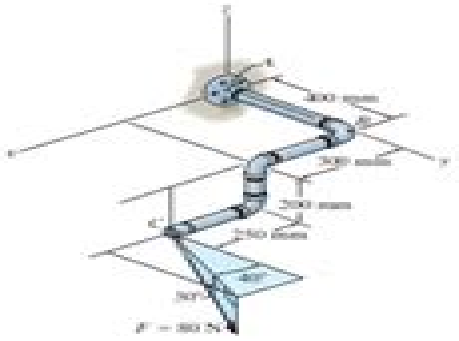
4–46. The pipe assembly is subjected to the 80-N force. Determine the moment of this force about point *B*.



Position Vector And Force Vector:

$$\mathbf{r}_{BC} = \{(0.55 - 0)\mathbf{i} + (0.4 - 0.4)\mathbf{j} + (-0.2 - 0)\mathbf{k}\}\ \text{m}$$
$$= \{0.55\mathbf{i} - 0.2\mathbf{k}\}\ \text{m}$$

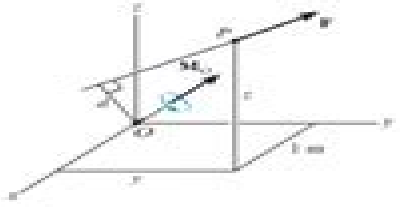
$$\mathbf{F} = 80\{\cos 30°\sin 40°\mathbf{i} + \cos 30°\cos 40°\mathbf{j} - \sin 30°\mathbf{k}\}\ \text{N}$$
$$= \{44.53\mathbf{i} + 53.07\mathbf{j} - 40.0\mathbf{k}\}\ \text{N}$$

Moment of Force F About Point B: Applying Eq. 4–7, we have

$$\mathbf{M}_B = \mathbf{r}_{BC} \times \mathbf{F}$$
$$= \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ 0.55 & 0 & -0.2 \\ 44.53 & 53.07 & -40.0 \end{vmatrix}$$

$$= \{10.61\mathbf{i} + 13.1\mathbf{j} + 29.2\mathbf{k}\}\ \text{N} \cdot \text{m} \qquad \text{Ans}$$

4–47. The force $\mathbf{F} = \{6\mathbf{i} + 8\mathbf{j} + 10\mathbf{k}\}$ N creates a moment about point *O* of $\mathbf{M}_O = \{-14\mathbf{i} + 8\mathbf{j} + 2\mathbf{k}\}$ N·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 **F**.



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

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

$$8 = -10 + 6z$$

$$2 = 8 - 6y$$

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

$$z = 3\ \text{m} \qquad \text{Ans}$$

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

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

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

Mechanics Statics Solutions Chapter 4

M Lipman

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