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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



**Rectangular Components:** Since  $\cos^2 \alpha_2 + \cos^2 \beta_2 + \cos^2 \gamma_2 = 1$ , then  $\cos \beta_2 = \sqrt{1 - \cos^2 60^\circ - \cos^2 120^\circ} = 0.7071$ .

However, it is required that  $\beta_2 > 90^\circ$ , then,  $\beta_2 = \cos^{-1}(-0.7071) = 135^\circ$ . By resolving  $F_1$  and  $F_2$  into their  $x$ ,  $y$ , and  $z$  components, as shown in Figs. a and b, respectively,  $F_1$  and  $F_2$  can be expressed in Cartesian vector form, as

$$F_1 = 600 \left( \frac{z}{3} \right) (-i) + 0j + 600 \left( \frac{2}{3} \right) (i + k)$$

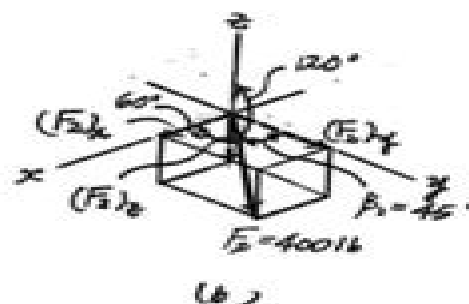
$$= [-400i + 200k] \text{ N}$$

Ans.

$$F_2 = 400 \cos 60^\circ i + 400 \cos 135^\circ j + 400 \cos 120^\circ k$$

$$= [200i + 283j - 200k] \text{ N}$$

Ans.



# Statics Hibbeler 12th Edition Solution Manual

**R. C. Hibbeler**



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