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



Rectangular Components: Since $\cos^2 \alpha_1 + \cos^2 \beta_1 + \cos^2 \gamma_1 = 1$, then $\cos \beta_1 = \sqrt{1 - \cos^2 60^\circ} = \cos 60^\circ = 0.7071$.

However, it is required that $\beta_1 > 90^\circ$, then, $\beta_1 = \cos^{-1}(-0.7071) = 135^\circ$. 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

$$F_1 = 600 \left(\frac{4}{5} \right) i + 0j + 600 \left(\frac{3}{5} \right) k$$

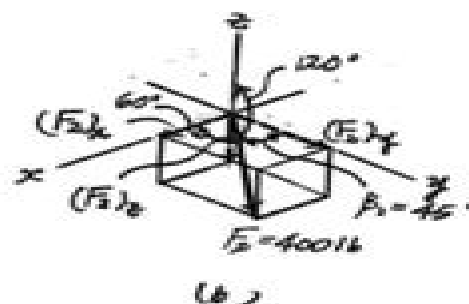
$$= \{480i + 360k\} \text{ N}$$

Ans.

$$F_2 = -400 \cos 60^\circ i + -400 \cos 45^\circ j + 400 \cos 120^\circ k$$

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

Ans.



Engineering Mechanics Statics 12 Solution Manual

G Thomas



Engineering Mechanics Statics 12 Solution Manual:

Reviewing **Engineering Mechanics Statics 12 Solution Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Engineering Mechanics Statics 12 Solution Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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