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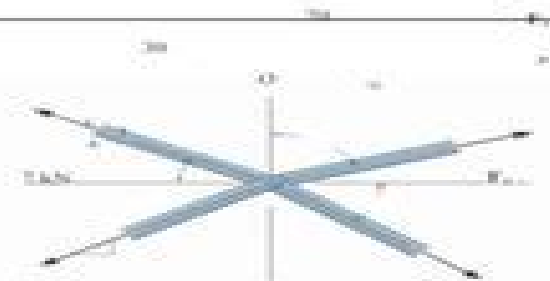
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3-11.

The members of a truss are pin connected at joint O . Determine the magnitudes of F_1 and F_2 for equilibrium. Set $\alpha = 40^\circ$.

1 kN



SOLUTION

$$\sum \rightarrow F_x = 0; \quad F_2 \sin 70^\circ + F_1 \sin 40^\circ - 5 \sin 30^\circ - \frac{4}{5}(7) = 0$$

$$0.9397F_2 + 0.6428F_1 = 9.930$$

$$+\circlearrowleft F_y = 0; \quad F_2 \cos 30^\circ + 5 \sin 30^\circ - F_1 \sin 40^\circ - \frac{3}{5}(7) = 0$$

$$0.8660F_2 - 0.6428F_1 = 1.7$$

Solving:

$$F_2 = 9.60 \text{ kN}$$

$$F_1 = 1.83 \text{ kN}$$

Ans.

Ans.



Hibbeler Dynamics Chapter 1 solutions

Albert A Gayle

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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