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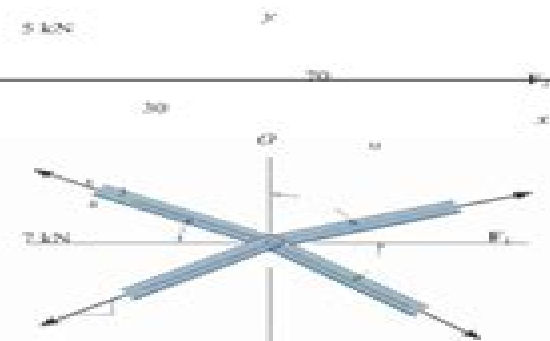
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3-1.

The members of a truss are pin connected at joint O . Determine the magnitudes of F_1 and F_2 for equilibrium. Set $\alpha = 60^\circ$.



SOLUTION

$$\sum \circ F_x = 0; \quad F_2 \sin 70^\circ + F_1 \cos 60^\circ - 5 \cos 30^\circ - \frac{4}{5}(7) = 0$$

$$0.9397F_2 + 0.5F_1 = 9.930$$

$$+\circ F_y = 0; \quad F_2 \cos 70^\circ + 5 \sin 30^\circ - F_1 \sin 60^\circ - \frac{3}{5}(7) = 0$$

$$0.3420F_2 - 0.8660F_1 = 1.7$$

Solving:

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

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

Ans.

Ans.



Engineering Mechanics Statics And Dynamics Problems And Solutions

G Orfield

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

Engineering Mechanics Statics And Dynamics Problems And Solutions:

Engineering Mechanics Statics And Dynamics Problems And Solutions Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Engineering Mechanics Statics And Dynamics Problems And Solutions**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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