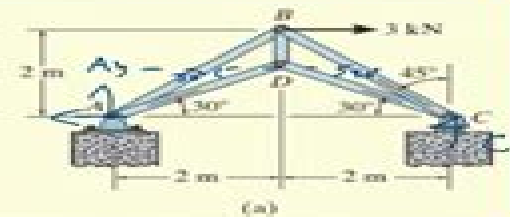


## EXAMPLE 6.2

Determine the forces acting in all the members of the truss shown in Fig. 6-9a.

### SOLUTION

By inspection, there are more than two unknowns at each joint. Consequently, the support reactions on the truss must first be determined. Show that they have been correctly calculated on the free-body diagram in Fig. 6-9b. We can now begin the analysis at joint C. Why?



sections or joint same place joints

1) Supports:

$$\sum F_x = 0: \quad -A_x + 3 = 0 \Rightarrow \boxed{A_x = 3 \text{ kN} \rightarrow}$$

$$\sum M_A = 0 = +3(2) - C(4) \Rightarrow \boxed{C = 1.5 \text{ kN} \uparrow}$$

$$\sum F_y = 0: \quad 1.5 + A_y = 0$$

$$A_y = -1.5 \text{ kN}$$

↓ reverse direction assumed

$$\boxed{A_y = 1.5 \text{ kN} \downarrow}$$

2) Using sections (only 3 needed) or 2 sections and 1 joint smarter



$$\sum F_x = 0 = -\frac{3}{1} + F_{AB} \sin 45 + F_{BD} \cos 30$$

$$\sum F_y = 0 = -\frac{1.5}{1} + F_{AB} \cos 45 + F_{BD} \sin 30$$

$$\boxed{F_{AB} = -0.776 \text{ kN} \quad F_{BD} = 4.1 \text{ kN (T)}}$$

\*  $F_{AB} = 0.776 \text{ kN (C)}$

# Engineering Statics Problems Solutions

**R Bogdan**



## **Engineering Statics Problems Solutions:**

This book delves into Engineering Statics Problems Solutions. Engineering Statics Problems Solutions is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Engineering Statics Problems Solutions, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 4: Engineering Statics Problems Solutions in Specific Contexts
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