

Problem 6-8

Determine the force in each member of the truss and state if the members are in tension or compression.

Units Used:

$$1\text{ kN} = 10^3\text{ N}$$

Given:

$$P_1 = 7\text{ kN}$$

$$P_2 = 7\text{ kN}$$

Solution:

$$\theta = 45^\circ$$

Initial Guesses:

$$F_{AB} = 1\text{ kN} \quad F_{AD} = 1\text{ kN} \quad F_{DB} = 1\text{ kN}$$

$$F_{DC} = 1\text{ kN} \quad F_{CB} = 1\text{ kN}$$

Given:

Joint A: $F_{AB} + F_{AD}\cos(\theta) = 0$

$$-P_1 - F_{AD}\sin(\theta) = 0$$

Joint D: $F_{DB}\cos(\theta) - F_{AD}\cos(\theta) + F_{DC}\cos(\theta) = 0$

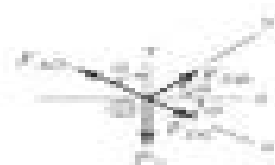
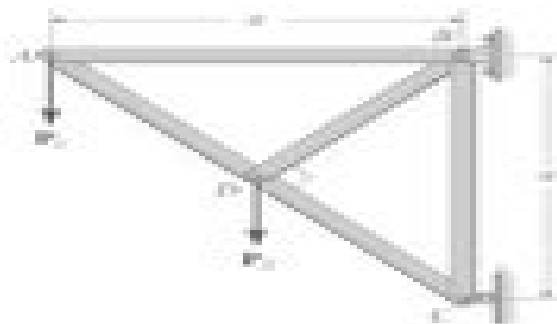
$$(F_{AD} + F_{DB} - F_{DC})\cos(\theta) - P_2 = 0$$

Joint C: $F_{CB} + F_{DC}\cos(\theta) = 0$

$$\begin{pmatrix} F_{AB} \\ F_{AD} \\ F_{DB} \\ F_{DC} \\ F_{CB} \end{pmatrix} = \text{Find}(F_{AB}, F_{AD}, F_{DB}, F_{DC}, F_{CB})$$

$$\begin{pmatrix} F_{AB} \\ F_{AD} \\ F_{DB} \\ F_{DC} \\ F_{CB} \end{pmatrix} = \begin{pmatrix} 7 \\ -9.9 \\ 4.95 \\ -14.85 \\ 10.5 \end{pmatrix} \text{ kN}$$

Positive means
Tension,
Negative means
Compression



Statics Chapter 5 Solution Manual

Arturo Cuomo



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