

PROBLEM 2.49

Two cables are tied together at C and are loaded as shown. Knowing that P = 300 N, determine the tension in cables AC and BC.

SOLUTION

Free-Body Diagram



$$\pm_{\pi} \Sigma F_{s} = 0 \qquad -T_{CA} \sin 30^{\circ} + T_{CB} \sin 30^{\circ} - P \cos 45^{\circ} - 200 N = 0$$

For P = 200N we have,

$$-0.5T_{CA} + 0.5T_{CB} + 212.13 - 200 = 0 (1)$$

$$+|^{4}\Sigma F_{x} = 0$$
 $T_{CA}\cos 30^{\circ} - T_{CB}\cos 30^{\circ} - P\sin 45^{\circ} = 0$

$$0.86603T_{CA} + 0.86603T_{CB} - 212.13 = 0$$
 (2)

Solving equations (1) and (2) simultaneously gives,

$$T_{\rm CA} = 134.6 \, {\rm N}$$

$$T_{CB} = 110.4 \text{ N} \blacktriangleleft$$

Vector Mechanics For Engineers Answers

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