



PROBLEM 2.47

Two cables are tied together at C and are loaded as shown. Determine the tension (a) in cable AC , (b) in cable BC .

SOLUTION

Free-Body Diagram



Force Triangle



$$W = w_{50} = (50 \text{ kg})(9.81 \text{ m/s}^2) = 490 \text{ N}$$

Law of sines:

$$\frac{T_{AC}}{\sin 110^\circ} = \frac{T_{BC}}{\sin 30^\circ} = \frac{490 \text{ N}}{\sin 40^\circ}$$

(a)

$$T_{AC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 110^\circ$$

$$T_{AC} = 716 \text{ N} \quad \blacktriangleleft$$

(b)

$$T_{BC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 30^\circ$$

$$T_{BC} = 381 \text{ N} \quad \blacktriangleleft$$

Vector Mechanics Statics Solution Manual

M Carnoy



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