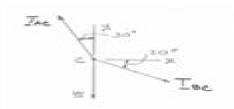


PROBLEM 2.47

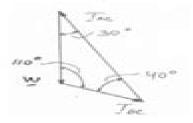
Two cables are tied together at C and are loaded as shown. Determine the tension (a) in cable AC, (b) in cable BC.

SOLUTION

Free-Body Diagram



Force Triangle



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

Law of sines:

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

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

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

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

$$T_{\rm acc}=381~{
m N}$$

Vector Mechanics For Engineers Static Solution Manual

RS Peters

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