



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:

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

$$(a) \quad T_{AC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 110^\circ \quad T_{AC} = 716 \text{ N} \quad \blacktriangleleft$$

$$(b) \quad T_{BC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 30^\circ \quad T_{BC} = 381 \text{ N} \quad \blacktriangleleft$$

Vector Mechanics For Engineers Statics Solution Manual

L Darling-Hammond



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Enjoying the Tune of Appearance: An Mental Symphony within **Vector Mechanics For Engineers Statics Solution Manual**

In some sort of consumed by monitors and the ceaseless chatter of instantaneous conversation, the melodic beauty and psychological symphony developed by the written term frequently disappear in to the back ground, eclipsed by the relentless sound and distractions that permeate our lives. But, located within the pages of **Vector Mechanics For Engineers Statics Solution Manual** a charming fictional treasure overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts readers on a psychological journey, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this moving review, we will discover the book is main harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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