



PROBLEM 2.58

For the cables of Problem 2.46, it is known that the maximum allowable tension is 600 N in cable AC and 750 N in cable BC. Determine (a) the maximum force P that can be applied at C, (b) the corresponding value of α .

SOLUTION

Free-Body Diagram



Force Triangle



(a) Law of cosines

$$P^2 = (600)^2 + (750)^2 - 2(600)(750)\cos(25^\circ + 45^\circ)$$

$$P = 784.02 \text{ N}$$

$$P = 784 \text{ N} \quad \blacktriangleleft$$

(b) Law of sines

$$\frac{\sin \beta}{600 \text{ N}} = \frac{\sin(25^\circ + 45^\circ)}{784.02 \text{ N}}$$

$$\beta = 46.0^\circ \quad \therefore \alpha = 46.0^\circ + 25^\circ$$

$$\alpha = 71.0^\circ \quad \blacktriangleleft$$

Manual Solution For Vector Mechanics

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