

To change psi to N/m^2

$$100 \text{ psi} = 100 (4.89) (9.807)$$

$$100 \text{ psi} = 4795.62 \text{ N/m}^2$$

To change psi to Pa

$$100 \text{ psi} = \frac{100 (9.807) (100)^2}{2.2 (2.54) (2.54)}$$

$$100 \text{ psi} = 100 (6909.49)$$

$$100 \text{ psi} = 690949 \text{ Pa} = 690.949 \text{ N/m}^2$$

$$100 \text{ psi} = 690.949 \text{ KPa}$$

To change Joules to N.m

$$100 \text{ joules} = 100 \text{ N.m}$$

To change J/s to watts

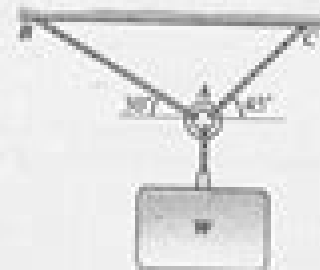
$$100 \text{ joules/s} = 100 \text{ watts}$$

Chapter 1

Simple Stress

PROBLEM 103.

Determine the largest weight W which can be supported by the two wires shown. The stresses in wires AB and AC are not to exceed 100 MPa and 150 MPa, respectively. The cross-sectional areas of the two wires are 400 mm^2 for wire AB and 200 mm^2 for wire AC .



Solution:

Consider the FBD of joint A with $x - \text{axis}$ through AB as shown

$$(\Sigma F_x = 0)$$

$$A \cos 30^\circ - W \sin 45^\circ = 0$$

$$W = \frac{A \cos 30^\circ}{\sin 45^\circ}$$

$$W = \frac{400 \cos 30^\circ}{\sin 45^\circ}$$

$$W = \frac{400 (0.866)}{0.707}$$

$$W = 489.9 \text{ N}$$

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Chao Zhang



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