

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

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

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

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

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

To change Joules to N.m

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

To change J/s to watts

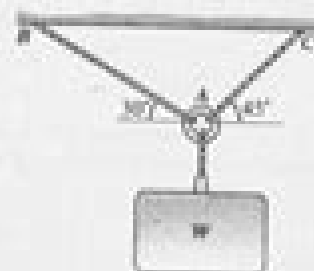
$$100 \text{ joules/s} = 100 \text{ watts}$$

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 $x - y$ axis through AB as shown

$$(\Sigma F_x = 0)$$

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

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

$$A = \frac{W}{0.866}$$

$$A = 1.155 W$$

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Strength Of Materials Ferdinand Singer Solution Manual

Daniel F McAuley



Strength Of Materials Ferdinand Singer Solution Manual:

This book delves into Strength Of Materials Ferdinand Singer Solution Manual. Strength Of Materials Ferdinand Singer Solution Manual is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Strength Of Materials Ferdinand Singer Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Strength Of Materials Ferdinand Singer Solution Manual
 - Chapter 2: Essential Elements of Strength Of Materials Ferdinand Singer Solution Manual
 - Chapter 3: Strength Of Materials Ferdinand Singer Solution Manual in Everyday Life
 - Chapter 4: Strength Of Materials Ferdinand Singer Solution Manual in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Strength Of Materials Ferdinand Singer Solution Manual.

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