

# STRENGTH OF MATERIALS

## Strength of Materials

A measure of its ability to resist the application of the load required during the service of the structure of the machine without fracture, collapse or undue distortion.

**Stress** is the mechanical force on energy that causes or produces deformation or fracture in the material. Also defined as resistance to external forces and it is measured in terms of the force exerted per unit of area.

### Simple Stresses:

#### 1. Axial Stress:

- a. Tensile stress
- b. Compressive stress

Formula:

$$S = \frac{P}{A}$$

where:  $A \perp P$   
 $S$  = stress  
 $P$  = load or total external load  
 $A$  = stressed area

#### 2. Shearing Stress

Formula:

$$S_s = \frac{P_s}{A_s}$$

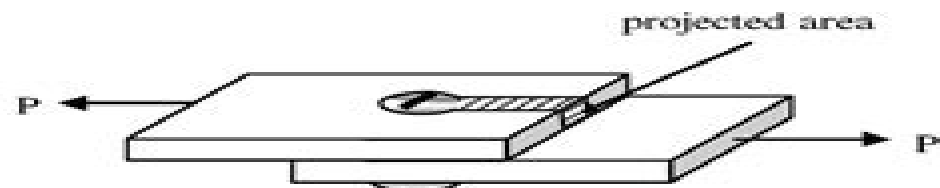
where:  $A_s \parallel P_s$

#### 3. Bearing Stress

Formula:

$$S_b = \frac{P_b}{A_b}$$

where:  $A_b$  is the projected area



# Strength Of Materials A Course For Students

**D Siedentop**



## **Strength Of Materials A Course For Students:**

## **Strength Of Materials A Course For Students** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Strength Of Materials A Course For Students**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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