

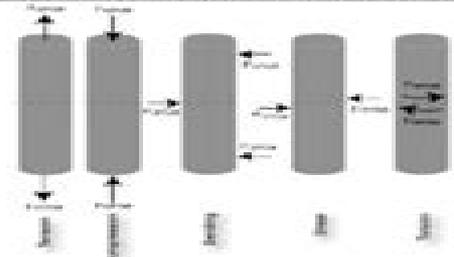


Department of Mechanical Engineering
GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY

ENGINEERING MATERIALS

Mechanical Properties of Materials

Application of Forces and Deformations of Materials



Mechanical properties

1. Strength
2. Elasticity
3. Plasticity
4. Ductility
5. Brittleness
6. Malleability
7. Toughness
8. Fracture Toughness
9. Resilience
10. Hardness

Mechanical properties

- Reaction of materials to the action of external stresses is indicated as **mechanical properties**

Deformation

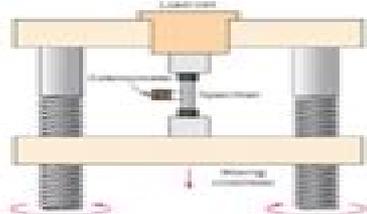
- Application of a stress causes a material to change its size and shape.
- Change in size and shape is known as deformation

Tensile Test

- Mechanical properties of a material are studied by performing a tensile test.
- Tensile test specimen



The specimen will be subjected to a progressively increasing tensile force until it fractures.



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