

Stress (σ): It is defined as the force applied on unit area to produce any change in the shape, volume or length of a body.

Mathematically

$$\sigma = \frac{F}{A}$$

Its unit is N/m^2 called **pascal**. Pressure is always perpendicular while stress may be tangential. Stress may be of following types.

- **Tensile stress:** when stress cause the change in length.
- **Volume stress:** when stress cause the change in volume.
- **Shear stress:** when stress cause the change in shape.

Strain (ϵ): Strain is the measure of the deformation of the solid when stress is applied to it. It is the ratio of similar quantities so it has no units. Strain may be of following types.

- **Tensile Strain:** When the applied stress changes the length (i.e. deformation in one dimension) then the fractional change in length is called tensile strain.

$$\text{Tensile strain} = \frac{\text{Change in length}}{\text{original length}}$$

or

$$\epsilon = \frac{\Delta l}{l}$$

- **Volumetric Strain:** When the applied stress changes the volume then the fractional change in volume is called volumetric strain.

or

$$\epsilon = \frac{\Delta V}{V}$$

- **Shear Strain:** Shear strain is the ratio of deformation to original dimensions.

$$\gamma = \frac{\Delta x}{y} = \tan\theta$$

for small angle $\tan\theta = \theta$ so
 $\gamma = \theta$



Modulus of Elasticity: (Elastic Constant)

The ratio of stress to strain is constant for given material is called modulus of elasticity. As strain is unit less quantity so it has same units to that of stress i.e. pascal.

- **Youngs Modulus** is the ratio of tensile stress to tensile strain. $Y = \frac{F/A}{\Delta l/l}$
- **Bulk Modulus** is the ratio of stress to volumetric strain. $K = \frac{F/A}{\Delta V/V}$
- **Shear Modulus** is the ratio of stress to shear strain. $G = \frac{F/A}{\tan\theta}$

Chapter 16 Physics Solution Manual

Keith H. Brown



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