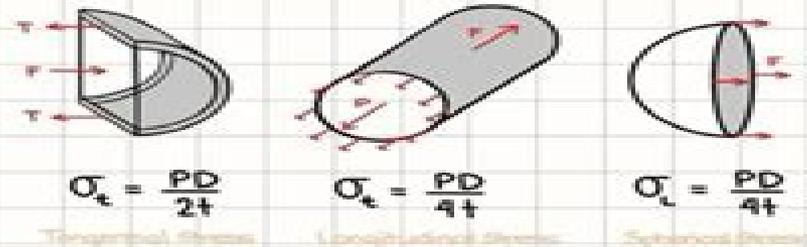


# Strength of Materials

## DEFORMATIONS



## THIN-WALLED CYLINDER



$$\sigma_t = \frac{PD}{2t}$$

$$\sigma_l = \frac{PD}{4t}$$

$$\sigma_s = \frac{PD}{4t}$$

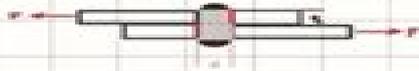
## STRESS

Normal Stress  $\sigma = \frac{P}{A}$



## ANALYSIS OF BOLT CONNECTION

### Bearing Stress



$$\sigma_b = \frac{F}{dt}$$



### Shear Stress



$$\tau_s = \frac{F}{\frac{\pi}{4}d^2}$$



$$\tau_b = \frac{F}{2\left(\frac{\pi}{4}d^2\right)}$$



$$\tau_p = \frac{F}{\pi dt}$$

## AXIAL DEFORMATION

$$\mu = -\frac{\epsilon_y}{\epsilon_x} = -\frac{\epsilon_z}{\epsilon_x} \quad \text{Poisson's Ratio}$$

$$\epsilon_x = \frac{\sigma_x}{E} - \mu \frac{\sigma_y}{E} \quad \text{Biaxial Deformation}$$

$$\epsilon_x = \frac{1}{E} [\sigma_x - \mu(\sigma_y + \sigma_z)]$$

$$\epsilon_y = \frac{1}{E} [\sigma_y - \mu(\sigma_x + \sigma_z)]$$

$$\epsilon_z = \frac{1}{E} [\sigma_z - \mu(\sigma_x + \sigma_y)]$$

Triaxial Deformation

$$G = \frac{E}{2(1+\mu)} \quad \text{Modulus of Rigidity}$$

$$E = \frac{\sigma}{\epsilon} \quad \text{Modulus of Elasticity}$$

## TORSION POWER

$$P = T\omega = 2\pi TN$$

## STIFFNESS

$$k = \frac{P}{\delta}$$

	SIMPLE	SHEAR	TORSION
STRESS	$\sigma = \frac{P}{A}$	$\tau = \frac{V}{A}$	$\tau = \frac{T}{J}$
STRAIN	$\epsilon = \frac{\delta}{L}$	$\gamma = \frac{\delta_s}{r}$	$\gamma = \frac{r\theta}{L}$
MODULUS	$E = \frac{\sigma}{\epsilon}$	$G = \frac{\tau}{\gamma}$	$G = \frac{T}{r\theta}$
DEFORMATION	$\delta = \frac{PL}{AE}$	$\delta_s = \frac{VL}{AG}$	$\theta = \frac{TL}{JG}$

## THERMAL STRESS



$$\delta_T = \alpha L \Delta T \quad \text{elongation due to temp}$$

$$\delta_P = \frac{PL}{AE} \quad \text{elongation due to axial stress}$$

$$= \frac{\sigma L}{E}$$



$$\delta_T = \delta_P + \alpha L \Delta T = \alpha + \frac{\sigma L}{E}$$

# Strength Of Materials

**BM King**



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