

Strength of Materials

DEFORMATIONS



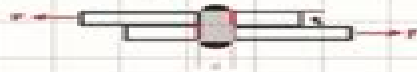
STRESS

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



ANALYSIS OF BOLT CONNECTION

Bearing Stress



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



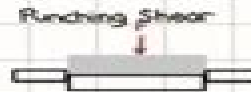
Shear Stress



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



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



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

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

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

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

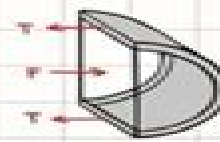
TORSION POWER

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

STIFFNESS

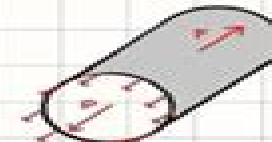
$$k = \frac{P}{\delta}$$

THIN-WALLED CYLINDER



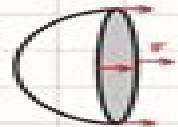
$$\sigma_t = \frac{PD}{2t}$$

Tangential Stress



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

Longitudinal Stress



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

Spherical Stress

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

THERMAL STRESS



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

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

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



$$\delta_t = \alpha + \delta_p$$

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

Strength And Structure Of Engineering Materials

Raffaella Di Napoli



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