Fundamental Equations of Mechanics of Materials

Axial Lead

Mormal Street

$$\omega = \frac{N}{4}$$

Distributement

$$S = \int_{0}^{L} \frac{M(s)ds}{A(s)E}$$

$$S = \sum_{A} \frac{ML}{AE}$$

$$S_{T} = \alpha \Delta T L$$

Territor

Shear stress in circular shaft

$$\tau = \frac{\tau_P}{I}$$

ter factoria.

$$J = \frac{\pi}{2} e^{4}$$
 solid cross section
 $J = \frac{\pi}{2} (e_{a}^{*} - e_{c}^{*})$ tubular cross section

Parenter

$$P = T_{\rm eff} = 2\pi i T$$

Angle of tests:

$$\phi = \int_{0}^{L} \frac{T(x)dx}{J(x)G}$$

$$\phi = \sum_{i=1}^{L} \frac{TL}{G}$$

Average shear stress in a thin-walled tube

$$r_{\rm e-p} = \frac{T}{2nA_{\rm m}}$$

Shear Plow

$$q = \tau_{expl} = \frac{T}{2A_{ex}}$$

Bending

Mormal stress

$$\varphi = \frac{M\gamma}{\gamma}$$

Unsymmetric bending

$$er = -\frac{M_{ef}}{I_{\ell}} + \frac{M_{\rho}c}{I_{\rho}}, \qquad \tan \alpha = \frac{I_{\ell}}{I_{\rho}} \tan \theta$$

Shear

Average direct shear stress

$$r_{\rm evg} = \frac{v}{A}$$

There were shear stress

$$\tau = \frac{VQ}{h}$$

Shear Sow

$$q = m = \frac{VQ}{I}$$

Stress in Thin-Walled Pressure Vessel

Cylinder

$$\sigma_1 = \frac{pr}{r}$$
 $\sigma_2 = \frac{pr}{2r}$

Sphere

$$w_1=w_2=\frac{p\sigma}{2\tau}$$

Stress Transformation Equations

$$\begin{split} \sigma_{x'} &= \frac{\sigma_{x} + \sigma_{y}}{2} + \frac{\sigma_{x} - \sigma_{y}}{2} \cos 2\theta + \tau_{xy} \sin 2\theta \\ \tau_{x'y'} &= -\frac{\sigma_{x} - \sigma_{y}}{2} \sin 2\theta + \tau_{xy} \cos 2\theta \end{split}$$

Principal Stress

$$\begin{aligned} & \tan 2\theta_{p} = \frac{\tau_{ep}}{(\omega_{r} - \omega_{p})/2} \\ & \omega_{eQ} = \frac{\sigma_{e} + \sigma_{p}}{2} \pm \sqrt{\left(\frac{\sigma_{r} - \sigma_{p}}{2}\right)^{2} + \tau_{ep}^{2}} \end{aligned}$$

Maximum in plane shear stress

$$\begin{aligned} & \tan 2\theta_t = -\frac{(\sigma_x - \sigma_y)/2}{\tau_{xy}} \\ & \tau_{min} = \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2} \\ & \sigma_{min} = \frac{\sigma_x + \sigma_y}{2} \end{aligned}$$

Absolute maximum shear stress

$$r_{\rm sign} = \frac{\sigma_{\rm max}}{2}$$
 for $\sigma_{\rm max}$, $\sigma_{\rm max}$ same sign
$$r_{\rm sign} = \frac{\sigma_{\rm max} - \sigma_{\rm min}}{2}$$
 for $\sigma_{\rm max}$, $\sigma_{\rm max}$ opposite signs

Mechanical Engineering Formulas Cheat Sheet

Zhe Xu

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