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

Yicheng Fang

Mechanical Engineering Formulas Cheat Sheet:

This book delves into Mechanical Engineering Formulas Cheat Sheet. Mechanical Engineering Formulas Cheat Sheet is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mechanical Engineering Formulas Cheat Sheet, encompassing both the fundamentals and more intricate discussions.

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 - ∘ Chapter 5: Conclusion
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