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:

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

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

A verage shear stress in a thin-walled tube

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

Shear Plow

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

Bending

Mormal stress

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

Unsymmetric bending

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

Shear

Average direct shear stress

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

There were shear arrest

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

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

4

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

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 to plane shear stress

$$tan \ 2\theta_s = -\frac{(\sigma_s - \sigma_s)/2}{\tau_{rp}}$$

$$\tau_{res} = \sqrt{\left(\frac{\sigma_s - \sigma_p}{2}\right)^2 + \tau_{rp}^2}$$

$$\sigma_{reg} = \frac{\sigma_s + \sigma_p}{2}$$

Absolute maximum shear stress

$$r_{\text{min}} = \frac{\sigma_{\text{max}}}{2}$$
 for σ_{max} , σ_{min} same sign
$$r_{\text{min}} = \frac{\sigma_{\text{max}} - \sigma_{\text{min}}}{2}$$
 for σ_{max} , σ_{min} appealite signs

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Ensheng Dong

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- 1. Understanding the eBook Mechanical Engineering Formulas Cheat Sheet
 - The Rise of Digital Reading Mechanical Engineering Formulas Cheat Sheet
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Engineering Formulas Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Engineering Formulas Cheat Sheet
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Engineering Formulas Cheat Sheet
 - Personalized Recommendations
 - Mechanical Engineering Formulas Cheat Sheet User Reviews and Ratings
 - Mechanical Engineering Formulas Cheat Sheet and Bestseller Lists

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- 8. Staying Engaged with Mechanical Engineering Formulas Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Mechanical Engineering Formulas Cheat Sheet
- 9. Balancing eBooks and Physical Books Mechanical Engineering Formulas Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Formulas Cheat Sheet
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Formulas Cheat Sheet
 - Setting Reading Goals Mechanical Engineering Formulas Cheat Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Formulas Cheat Sheet
 - Fact-Checking eBook Content of Mechanical Engineering Formulas Cheat Sheet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
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 - Interactive and Gamified eBooks

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