

Formula Sheet

Stresses: $\sigma = \frac{P}{A}$ $\sigma = \frac{M \cdot c}{I}$ $\tau = \frac{T \cdot c}{J}$

Unsymmetric bending: $\sigma = \frac{P}{A} + \frac{-M_x y}{I_x} + \frac{-M_y z}{I_y}$ $\tan \phi = \frac{I_x}{I_y} \tan \theta$

Shear stress: $\tau = \frac{VQ}{It}$ $q = \tau \cdot t = \frac{VQ}{I}$

Thin-walled pressure vessel: $\sigma_1 = \frac{Pr}{t}$ $\sigma_2 = \frac{Pr}{2t}$

Stress Transformation:

$$\begin{aligned} \sigma_x' &= \frac{\sigma_x + \sigma_y}{2} + \frac{\sigma_x - \sigma_y}{2} \cos 2\theta + \tau_{xy} \sin 2\theta & \tan 2\theta_p &= \frac{2 \cdot \tau_{xy}}{(\sigma_x - \sigma_y)} \\ \tau_{xy}' &= -\frac{\sigma_x - \sigma_y}{2} \sin 2\theta + \tau_{xy} \cos 2\theta & \tan 2\theta_s &= -\frac{(\sigma_x - \sigma_y)}{2 \cdot \tau_{xy}} \\ \tau_{max} &= \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2} & \sigma_{avg} &= \frac{\sigma_x + \sigma_y}{2} \\ \sigma_{1,2} &= \frac{\sigma_x + \sigma_y}{2} \pm \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2} \end{aligned}$$

Beam Design: $S_{req} = \frac{|M|_{max}}{\sigma_{all}}$ $r_m = \frac{V_{max}}{A_{web}}$, where $A_{web} = d \cdot t_{web}$

Yield Criteria:

Von Mises (Distortion Energy): $\sigma_1^2 - \sigma_1 \sigma_2 + \sigma_2^2 < \sigma_Y^2$

Tresca (Maximal Shear Stress): $| \sigma_1 | < \sigma_Y$ and $| \sigma_2 | < \sigma_Y$
or $| \sigma_1 - \sigma_2 | < \sigma_Y$

Strain Gauge Transformation: $\epsilon(\theta) = \epsilon_x \cos^2 \theta + \epsilon_y \sin^2 \theta + \gamma_{xy} \sin \theta \cos \theta$

Generalized Hook's Law:

$$\begin{aligned} \epsilon_x &= \frac{1}{E} [\sigma_x - \nu(\sigma_y + \sigma_z)] & \gamma_{xy} &= \frac{1}{G} \tau_{xy} & \gamma_{yz} &= \frac{1}{G} \tau_{yz} & \gamma_{zx} &= \frac{1}{G} \tau_{zx} \\ \epsilon_y &= \frac{1}{E} [\sigma_y - \nu(\sigma_x + \sigma_z)] & G &= \frac{E}{2(1+\nu)} \\ \epsilon_z &= \frac{1}{E} [\sigma_z - \nu(\sigma_x + \sigma_y)] \end{aligned}$$

Plane Stress: $\sigma_x = \frac{E}{(1-\nu^2)} [\epsilon_x + \nu \epsilon_y]$

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R Barnett



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