

## Formula Sheet

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

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

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:

$$\sigma_{x'} = \frac{\sigma_x + \sigma_y}{2} + \frac{\sigma_x - \sigma_y}{2} \cos 2\theta + \tau_{xy} \sin 2\theta$$

$$\tan 2\theta_p = \frac{2 \cdot \tau_{xy}}{(\sigma_x - \sigma_y)}$$

$$\tau_{x'y'} = -\frac{\sigma_x - \sigma_y}{2} \sin 2\theta + \tau_{xy} \cos 2\theta$$

$$\tan 2\theta_s = -\frac{(\sigma_x - \sigma_y)}{2 \cdot \tau_{xy}}$$

$$\tau_{\max} = \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$$

$$\sigma_{\text{avg}} = \frac{\sigma_x + \sigma_y}{2}$$

$$\sigma_{1,2} = \frac{\sigma_x + \sigma_y}{2} \pm \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$$

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

Yield Criteria:

Von Mises (Distortion Energy):  $\sigma_x^2 - \sigma_x \sigma_y + \sigma_y^2 < \sigma_Y^2$

Tresca (Maximal Shear Stress):  $| \sigma_x | < \sigma_Y$  and  $| \sigma_y | < \sigma_Y$   
or  $| \sigma_x - \sigma_y | < \sigma_Y$

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:

$$\epsilon_x = \frac{1}{E} [\sigma_x - \nu(\sigma_y + \sigma_z)]$$

$$\gamma_{xy} = \frac{1}{G} \tau_{xy}, \quad \gamma_{yz} = \frac{1}{G} \tau_{yz}, \quad \gamma_{zx} = \frac{1}{G} \tau_{zx}$$

$$\epsilon_y = \frac{1}{E} [\sigma_y - \nu(\sigma_x + \sigma_z)]$$

$$G = \frac{E}{2(1+\nu)}$$

$$\epsilon_z = \frac{1}{E} [\sigma_z - \nu(\sigma_x + \sigma_y)]$$

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

# Mechanical Engineering Formulas Cheat Sheet

**SA Adler**



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**Mechanical Engineering Formulas Pocket Guide** Tyler G. Hicks, 2003-02-19 THOUSANDS OF MECHANICAL ENGINEERING FORMULAS IN YOUR POCKET AND AT YOUR FINGERTIPS This portable find it now reference contains thousands of indispensable formulas mechanical engineers need for day to day practice It's all here in one compact resource everything from HVAC to stress and vibration equations measuring fatigue bearings gear design simple mechanics and more Compiled by a professional engineer with many years experience the Pocket Guide includes common conversions symbols and vital calculations data You'll find just what you need to solve your problems quickly easily and accurately

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