

# Structural Analysis Formulas:

## BENDING:

$$\sigma_z = \frac{(M_x I_{yy} - M_y I_{xy})y + (M_y I_{xx} - M_x I_{xy})x}{I_{xx} I_{yy} - I_{xy}^2} \quad (2.4)$$

## TORSION:

Circular section:  $\tau = \frac{T\rho}{J} \quad (3.1)$

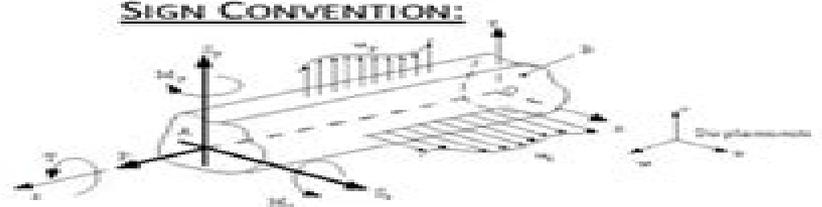
$$\frac{d\theta}{dz} = \frac{T}{GJ} \quad (3.2)$$

Thin-walled Closed section:  $\tau = \frac{q}{t} = \frac{T}{2tA_m} \quad (3.3)$

$$\frac{d\theta}{dz} = \frac{T}{4A_m^2 G} \oint \frac{1}{t} ds \quad (3.4)$$

Thin plate:  $\tau_{max} = \frac{3T}{st^2} \quad (3.5)$

$$\frac{d\theta}{dz} = \frac{3T}{Gst^3} \quad (3.6)$$



Note: use of convention that + moments create + stress in + quadrant!

## SHEAR:

Open section:  $q_s = -\frac{V_x I_{yy} - V_y I_{xy}}{I_{xx} I_{yy} - I_{xy}^2} \int_0^s ty ds - \frac{V_y I_{xx} - V_x I_{xy}}{I_{xx} I_{yy} - I_{xy}^2} \int_0^s tx ds \quad (4.6)$

Closed section:  $q_s = q_o + q_{os} = -\frac{V_x I_{yy} - V_y I_{xy}}{I_{xx} I_{yy} - I_{xy}^2} \int_0^s ty ds - \frac{V_y I_{xx} - V_x I_{xy}}{I_{xx} I_{yy} - I_{xy}^2} \int_0^s tx ds + q_{os} \quad (4.7)$

## SECTION PROPERTIES:

Shear centre: (general) Equate moment due to resultant force with moment due to internal shear flow

Shear centre: (closed section) In addition to above, require:  $q_{os} = -\frac{\oint (q_o/Gt) ds}{\oint ds/Gt} \quad (4.9)$

## Moments of Inertia:



$$I_{xx} = \frac{ta^3 \sin^2 \beta}{12} \quad (2.6)$$

$$I_{yy} = \frac{ta^3 \cos^2 \beta}{12} \quad (2.7)$$

$$I_{xy} = \frac{ta^3 \sin \beta \cos \beta}{12} \quad (2.8)$$

$I_{xx} = \int_A y^2 dA$ Solid Rectangular Section  $I_{xx} = \frac{bh^3}{12}$	$I_{yy} = \int_A x^2 dA$ Solid Circular Section  $I_{xx} = \frac{\pi d^4}{64}$ $I_{yy} = \frac{\pi d^4}{32}$	$I_{xy} = \int_A xy dA$ Thin-walled Circular Section  $I_{xx} = \frac{\pi d^3 t}{8}$ $I_{yy} = \frac{\pi d^3 t}{4}$
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Parallel Axis Theorem:  
 $I_o^x = I_c^x + Ac_c^2$   
 $I_o^y = I_c^y + Ac_c^2 \quad (2.9)$   
 $i = x, y, \text{ or } z$

$$I_{xx} = \sum_{i=1}^n y_i^2 B_i \quad (6.1) \quad I_{yy} = \sum_{i=1}^n x_i^2 B_i \quad (6.2) \quad I_{xy} = \sum_{i=1}^n x_i y_i B_i \quad (6.3)$$

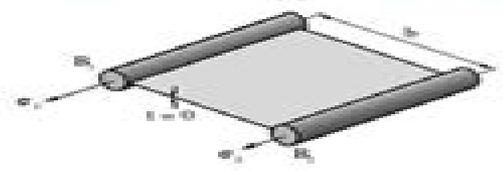
## IDEALIZED STRUCTURES:



Zero thickness skins & point area booms

Skin contribution to boom  
 $B_1 = \frac{t_{skin} b}{6} \left( 2 + \frac{\sigma_2}{\sigma_1} \right) \quad (6.5)$

$$B_2 = \frac{t_{skin} b}{6} \left( 2 + \frac{\sigma_1}{\sigma_2} \right) \quad (6.6)$$



# Structural Analysis V 1

**Terry C. Jones**



## **Structural Analysis V 1:**

## Decoding **Structural Analysis V 1**: Revealing the Captivating Potential of Verbal Expression

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