

$$J = \frac{b * h}{3} * (b^2 + h^2)$$

Equation 1: Second Moment of Area

$$\phi = \frac{T * L}{J * G}$$

Equation 2: Angle of Twist

$$\tau_{max} = \frac{T * c}{J}$$

Equation 3: Maximum Torsion

List of Variables:

J = Second Moment of Area

G = Shear Modulus

L = Length

T = Torque

c = Perpendicular distance

b = width

h = height