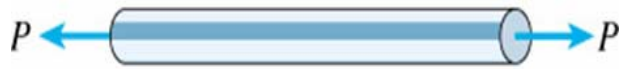


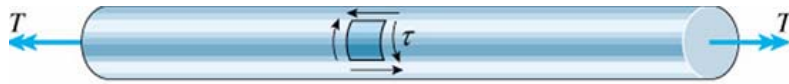
Stress Formula (Summary)

Loading Condition

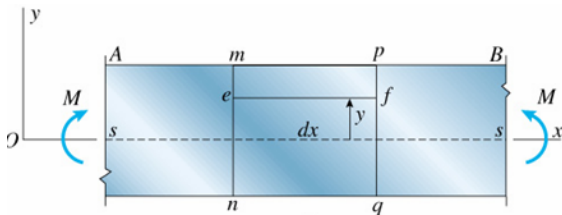
Axial



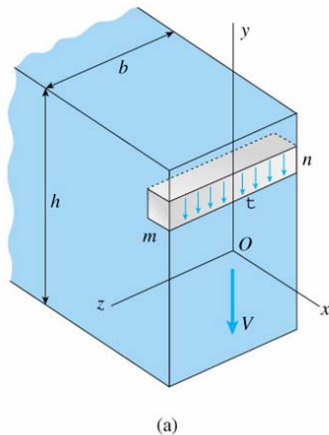
Torsion



Bending



Shear Force



Stress Formula

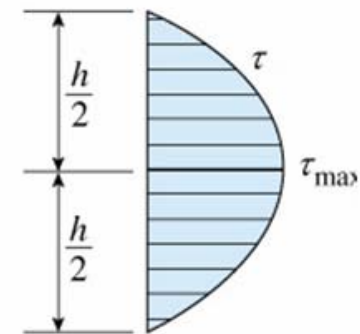
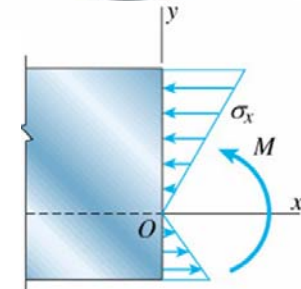
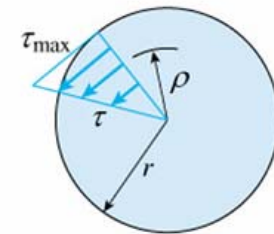
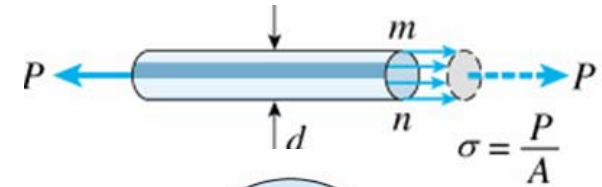
$$\sigma = \frac{P}{A}$$

$$\tau = \frac{T\rho}{I_P}$$

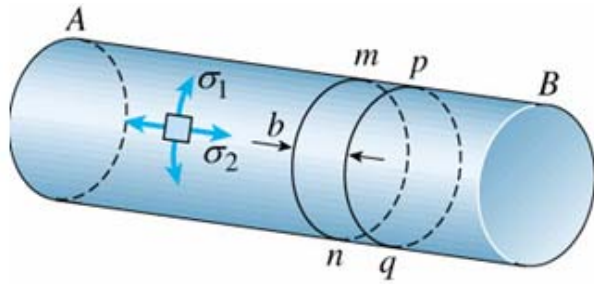
$$\sigma_x = -\frac{My}{I}$$

$$\tau = \left(\frac{VQ}{Ib} \right)$$

Stress Distribution



Cylindrical Pressure Vessel

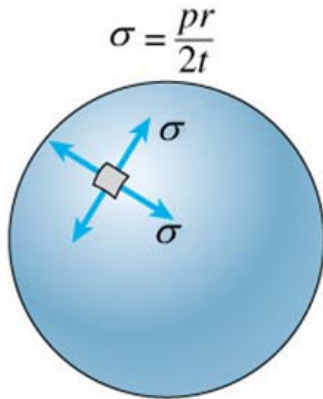


(a)

$$\sigma_1 = \frac{pr}{t}$$

$$\sigma_2 = \frac{pr}{2t}$$

Spherical Pressure Vessel



$$\sigma = \frac{pr}{2t}$$