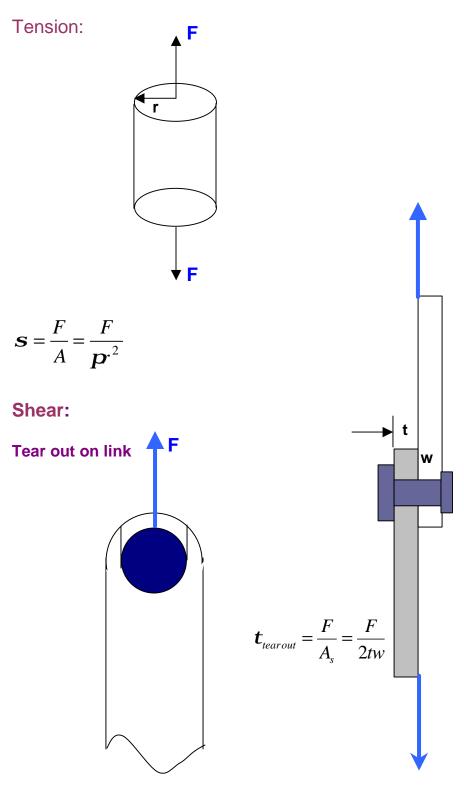
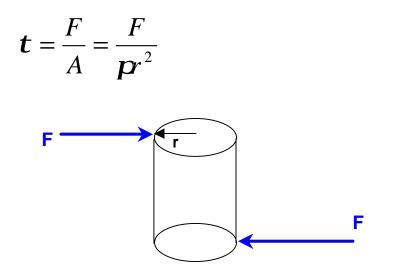
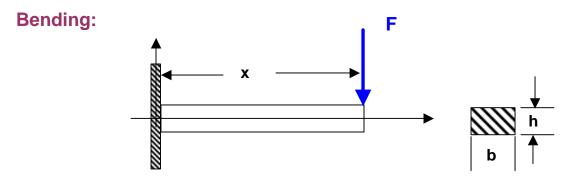
## Loading

Examples of tension (compression), shear, bending, torsion.



## Shear in Pin





Bending is about z axis distance to neutral axis is (-y) Moment is  $F^*x$ 

$$I_{zz} = \frac{1}{12}bh^3$$
$$\mathbf{s} = \frac{My}{I} = \frac{Fxy}{\frac{1}{12}bh^3}$$

Top fibers will be in tension (+) Bottom fibers will be in compression (-)

