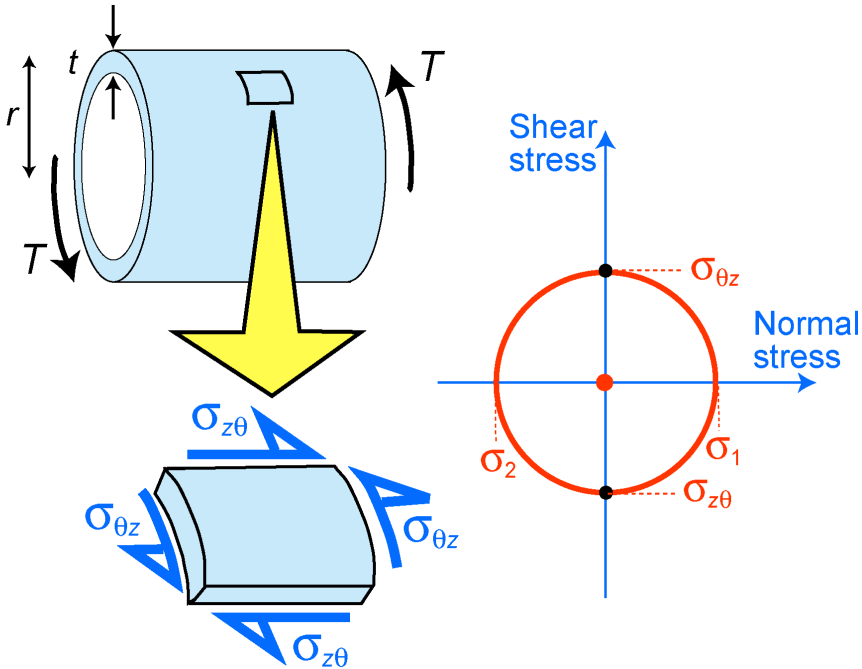


# Applied Torque, $T$



$$\sigma_{\theta z} (2\pi r t) r = T \longrightarrow \sigma_{\theta z} = T / (2\pi r^2 t)$$

$$\sigma_{\theta z} = 100 \cdot 10^9 / (2\pi \cdot 15^2 \cdot 2) = 35.4 \text{ MPa}$$