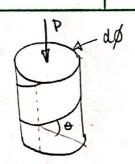
1.36:

given !



$$d=0.4m$$
  
 $t=0.01m$   
 $\theta=200$   
 $\tau=60MPa$  } checks out  $\tau=\tau$  for  $\theta=1$   
 $\tau=36MPa$  }

Find: IPI given allowable o, T

· Solution:

$$A_0 = \pi \frac{d^2}{4} - \frac{\pi}{4} (d-t)^2$$

$$A_0 = 1.23 \cdot 10^{-2} \text{ m}^2$$

$$P_{\sigma} = \frac{\sigma A_{0}}{\cos^{2}\theta}, \quad P_{C} = \frac{\tau A_{0}}{\sin \theta \cos \theta}$$

$$P_{\sigma} = 0.836 \text{ MN}, \quad P_{C} = 1.38 \text{ MN}$$