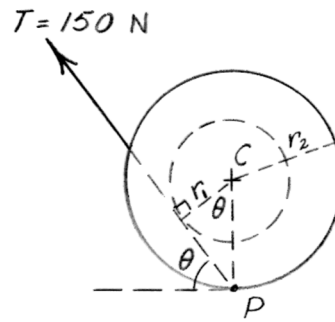


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$$\begin{aligned}\curvearrowright M_C &= Tr_1 = 150(0.125) \\ &= \underline{18.75 \text{ N}\cdot\text{m CW}}\end{aligned}$$

$$\cos \theta = \frac{r_1}{r_2} = \frac{125}{200}$$

$$\theta = \underline{51.3^\circ}$$



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