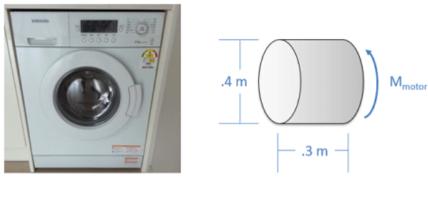
Problem 2

The drum in a washing machine can be approximated as a cylinder .4 meters in diameter and .3 meters in height with a uniformly distributed mass of 35 kilograms when full. If we wish to achieve an acceleration of 15 rad/s², what torque must the motor exert at the center of the drum?



$$M = \frac{1}{2} M C^{2} \left(15 \operatorname{rad}/s^{2} \right)$$

$$35 h_{3} . 2 n$$

$$M = 10.5 N m$$