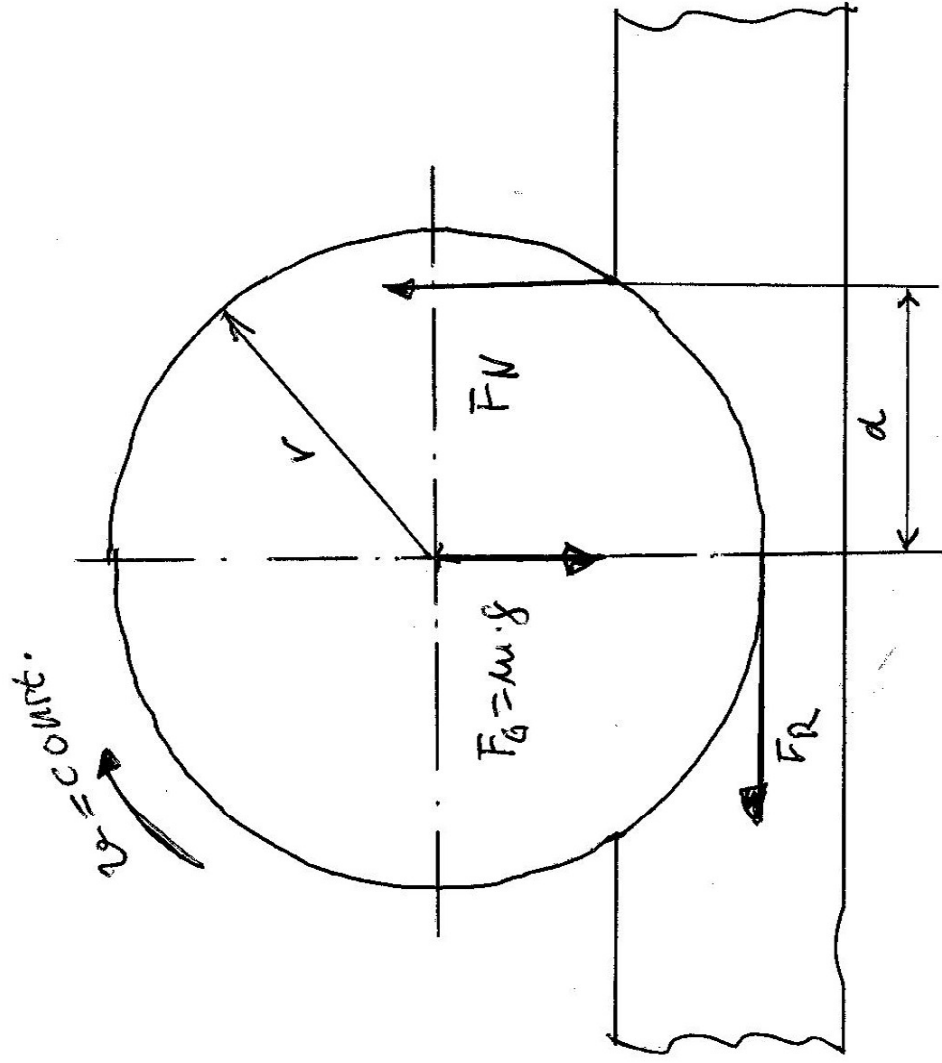


GRAVITY AND FRICTIONAL ROTATIONAL



$$\Sigma F = 0 = F_g - F_N = m \cdot g - F_N$$

$$\Sigma M = 0 = F_N \cdot d - F_R \cdot r = m \cdot g \cdot d - F_R \cdot r$$

$$F_R = m \cdot g \cdot \frac{d}{r} = m \cdot g \cdot \mu$$