

$$V = mgy_0 + \frac{1}{2} k \Delta^2, \Delta = L - L_0$$

$$\text{Initially } \theta = 30^\circ, \beta = 60^\circ - \theta = 30^\circ, \frac{k_1}{\sin \beta} = \frac{0.4}{\sin 120^\circ} \Rightarrow L_1 = 0.2309$$

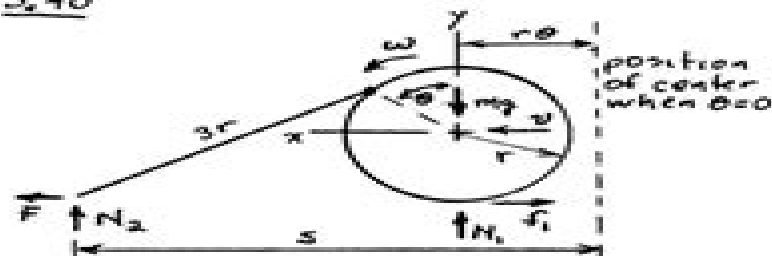
$$\text{Set } \Delta_1 = -0.1 \Rightarrow L_0 = L_1 - \Delta_1 = 0.3309$$

$$\text{At } \theta = 0, L_2 = 0.4 \Rightarrow \Delta_2 = 0.4 - L_0 = 0.0691, \text{ so}$$

$$V_1 = 40(9.807)(0.2 \sin 30^\circ) + \frac{1}{2} k \Delta_1^2 = 139.23, V_2 = \frac{1}{2} k \Delta_2^2 = 47.75 \text{ joules}$$

$$T_2 + V_2 = T_1 + V_1 \Rightarrow 2.133 \omega^2 + 47.75 = 139.23 \Rightarrow \omega = 6.549 \text{ rad/s} \quad \triangleleft$$

S.40



Given constant $F, I_{zz} = mk^2$,

no slip, $v = 0$ at $\theta = 0$.

Find v in terms of θ .

Solution: Use work-energy.

$$W_{1 \rightarrow 2} = F(s_2 - s_1) \text{ where}$$

$$s = r\theta + r \sin \theta + [(3r)^2 - (r + r \cos \theta)^2]^{1/2}$$

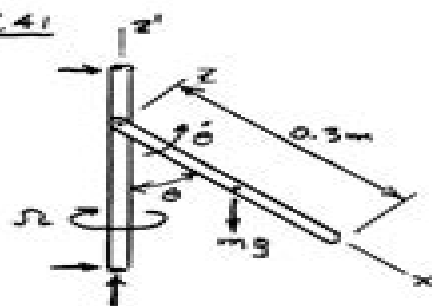
$$T = \frac{1}{2} m v^2 + \frac{1}{2} (mk^2) \omega^2, \text{ but } \omega = v/r \text{ for no slip} \Rightarrow T = \frac{1}{2} m \left(1 + \frac{k^2}{r^2}\right) v^2$$

$$V = 0. \text{ Initially } \theta = 0 \nRightarrow v = 0 \Rightarrow s_1 = \sqrt{3} r \nRightarrow T_1 = 0. \text{ Thus}$$

$$\frac{1}{2} m \left(1 + \frac{k^2}{r^2}\right) v^2 = Fr [\theta + \sin \theta + (\theta - 2 \cos \theta - \cos^2 \theta)]^{1/2} - \sqrt{3} Fr$$

$$\text{or } v^2 = \frac{2Fr^3}{m(r^2 + k^2)} [\theta + \sin \theta + (\theta - 2 \cos \theta - \cos^2 \theta)^{1/2} - \sqrt{3}] \quad \triangleleft$$

S.41



Given $\Omega = 10 \text{ rad/s} \nRightarrow \dot{\theta} = 4 \text{ rad/s}$
when $\theta = 10^\circ$

Find max θ .

Solution: No moment about the vertical shaft $\Rightarrow \Sigma \bar{M}_A \cdot \bar{k}' = 0$, so $\bar{H}_A \cdot \bar{k}'$ is constant. Also, energy is conserved.

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Michael Brown



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