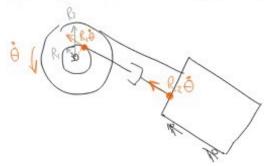


Advanod

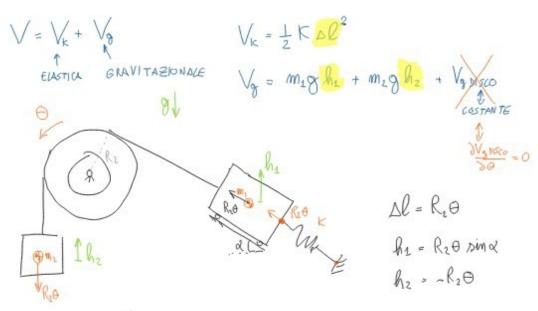
SCRIVERE EQ DI MOTO CON LAGRANGE



$$D = \frac{1}{2} \mathcal{E} \left(R_2 - R_1 \right)^2 \dot{\Theta}^2$$

$$= \frac{1}{2} \mathcal{E}^* \dot{\Theta}^2$$

= - (R2-R4) 0



$$V = \frac{1}{2} \left(k R_z^2 \right) \Theta^2 + m_1 g R_z \sin \theta + m_2 g \left(-R_z \right) \Theta =$$

$$= \frac{1}{2} k^* \Theta^2 + \left(m_1 \sin \theta - m_2 \right) g R_z \Theta$$

$$\frac{\mathcal{Y}}{\partial \theta} = k^* \theta + (m_1 sin x - m_2) g R_2$$



$$\frac{\partial \Omega_{1} \text{ Moto}}{\partial \left(\frac{\partial \mathcal{E}_{c}}{\partial \dot{\theta}}\right) - \frac{\partial \mathcal{E}_{c}}{\partial \theta} + \frac{\partial D}{\partial \dot{\theta}} + \frac{\partial V}{\partial \theta} = \frac{SL}{S\theta}}$$

$$\mathcal{J}^{*}\ddot{\theta} + \mathcal{Z}^{*}\dot{\theta} + \mathcal{K}^{*}\theta + \left(m_{1} \text{ SINX} - m_{2}\right) \mathcal{R}_{2}q = \mathcal{F}(t)\mathcal{R}_{2}$$

$$\mathcal{J}^{*}\ddot{\theta} + \mathcal{R}^{*}\dot{\theta} + \mathcal{K}^{*}\theta = \left(m_{2} - m_{1} \text{ SINX}\right) \mathcal{R}_{2}q + \left(\mathcal{F}_{c}\mathcal{R}_{2}\right) \cos \Omega t$$

$$SOL. PARTICOLARE COSTANTE SOL. PARTICOLARE COSTANTE$$