sentido opuesto

$$-\mu$$
. $\Delta x = m$. \dot{x}

$$\Rightarrow -\frac{k}{m} \cdot \Delta X = X$$

$$-\omega^2 \cdot \Delta \times = \overset{\cdot \circ}{\times}$$

$$W = \frac{2\pi}{T}$$

Cte elertica:

Perodo

Frec. Angular

$$[\omega]$$
 $\frac{1}{s}$

Frec. ?

$$\left[\begin{array}{c} 1 \\ 1 \end{array}\right] = \frac{1}{5} = Hz$$

$$\hat{r}: -T + \cos \theta . P = m . a contr$$

Cembia in va a melve segun A

$$\hat{\theta}: -\sin\theta.P = m.a_{\theta}$$

$$= -m \cdot R \cdot \frac{d\theta}{d\theta}$$

Velocidad Angular

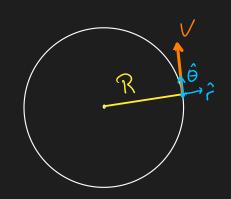
$$\omega = \frac{V_L}{R}$$

$$\omega = \frac{V_L}{R} \qquad [\omega] = \underline{1}$$

Velocidad Lineal

$$[V_L] = \frac{m}{s}$$

Aceleración Radial/Centripeta



$$\left[\begin{array}{c} a_{cen} \end{array}\right] = \frac{m}{s^{2}}$$

Aceleración Targencia

$$a_{tsn} = R \cdot \theta$$

Acelero con:

$$\bar{\alpha} = -R. \omega^2. \hat{r} + R. \hat{\theta} - \hat{\theta}$$

Enorgia Roten cial Elastica

$$E_{P} = \frac{1}{2} k \cdot (\Delta x)^{2}$$

· Adrar que si la soga es inextenible

$$\Rightarrow$$
 $T_1 = T_2$

$$=$$
 $\alpha_1 = \alpha_2$

Momento Lineal

Sea el sistema S = {1,2}

$$m_1 \cdot \mathcal{V}_1 + m_2 \cdot \mathcal{V}_2 = m_1 \cdot \mathcal{V}_1 + m_2 \cdot \mathcal{V}_2$$

$$\overline{P}_5^{\circ} = \overline{P}_5^{\circ}$$

1 1