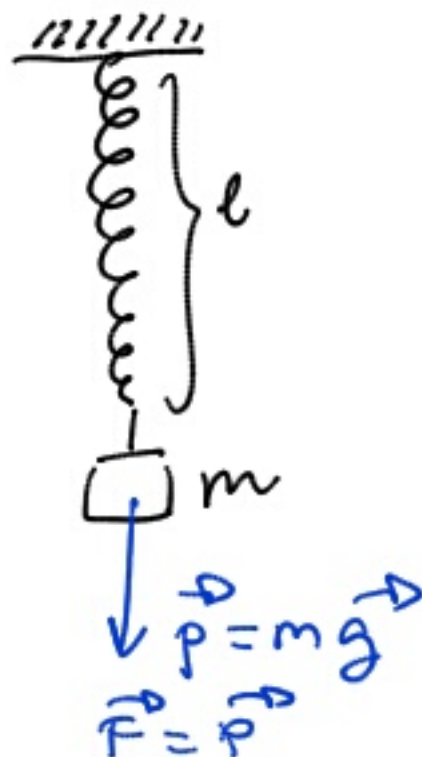
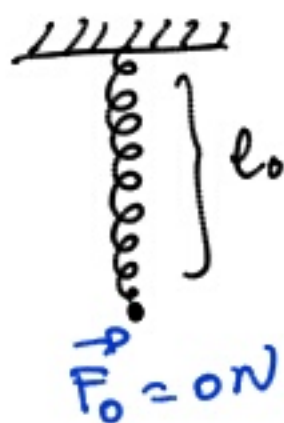


DINAMICA



$$\Delta F = K \Delta l$$

$K \equiv$ cte de elasticidad
Ley de Hooke

$$F = -kx$$



$$x = +A \quad v = 0 \quad a = -\omega^2 A$$

$$F = -k \cdot A \quad ; \quad F = m \cdot a = -m\omega^2 A$$

$$x = 0 \quad (F = 0); \quad v_{max} = \pm A \cdot \omega; \quad a = 0$$

$$x = -A \quad v = 0 \quad a = +\omega^2 A$$

$$F = -k(-A) = kA$$

$$F = m \cdot a = m\omega^2 A$$

$$F = -kx$$

$$F = m \cdot a = -$$

$$k = m \cdot \omega^2; \quad k = m \cdot \left(\frac{2\pi}{T} \right)^2; \quad k = m \frac{4\pi^2}{T^2}$$

$$T^2 = \frac{m 4\pi^2}{k} \rightarrow$$

$$T = 2\pi \sqrt{\frac{m}{k}}$$

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