

ES N° 8 PAG. 587

DATI:

$$K = 300 \text{ N/m}$$

$$T = 0,26 \text{ s}$$

NC

m oggetto?



$$a = \frac{K}{m} \cdot x$$

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

$$\omega = \frac{2\pi}{T} \Rightarrow \omega = \frac{2\pi}{0,265} = 24,16 \text{ rad/s}$$

$$\omega = \sqrt{\frac{K}{m}}$$

$$24,16 \text{ rad/s} = \sqrt{\frac{300 \text{ N/m}}{m}}$$

$$584 \text{ rad}^2/\text{s}^2 = \frac{300 \text{ N/m}}{m}$$

$$m = \frac{300 \text{ N/m}}{584 \text{ rad}^2/\text{s}^2} = 0,51 \text{ kg}$$

ES N° 10 PAG. 587

DATI:

L m