OSILASI HARMONIK SEDERHANA

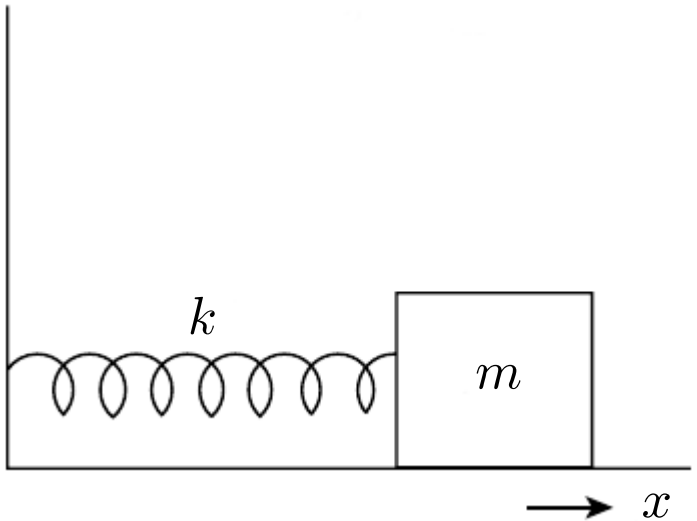
SIMPLE HARMONIC MOTION (SHM)

mampu menjelaskan dan menurunkan model matematis

#tujuan

https://www.freepik.com/vectors/business :(Business vector created by rawpixel.com - www.freepik.com)

sistem massa pegas

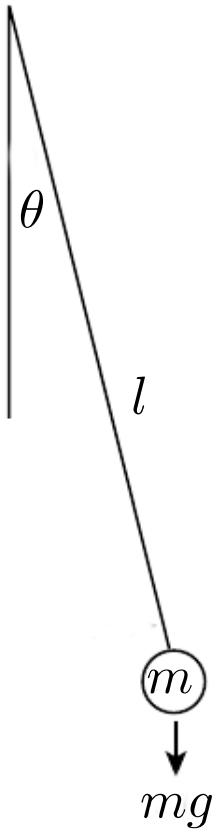


$$\ddot{x} + \frac{k}{m}x = 0 \qquad \text{persamaan gerak}$$

$$\omega^2 = \frac{k}{m} \qquad \text{angular frequency}$$

Pain, H. J. (2005). *The physics of vibrations and waves*. Wiley.

sistem pendulum

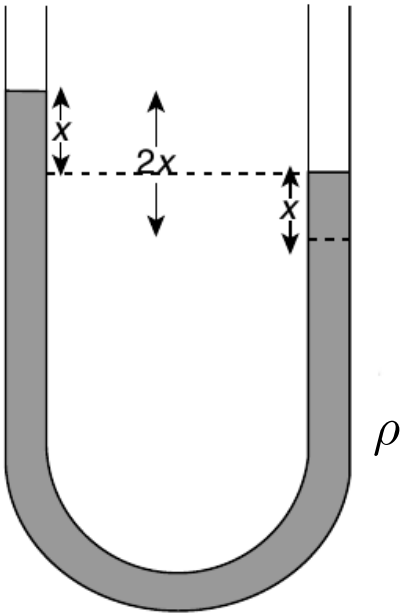


$$\ddot{\theta} + \frac{g}{l}\theta = 0 \qquad \text{persamaan gerak}$$

$$\omega^2 = \frac{g}{l} \qquad \text{angular frequency}$$

Pain, H. J. (2005). *The physics of vibrations and waves*. Wiley.

sistem manometer

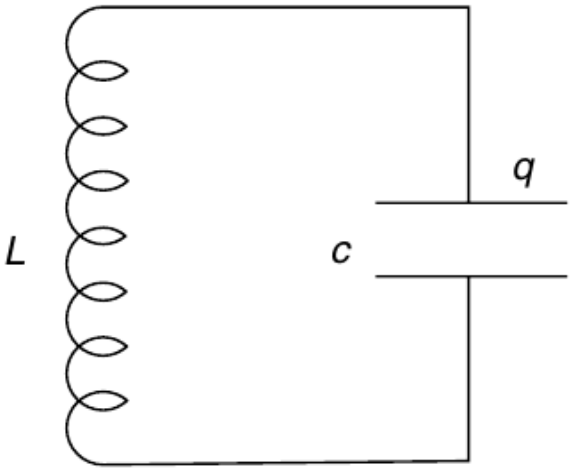


$$\ddot{x} + \frac{2g}{l}x = 0 \qquad \text{persamaan gerak}$$

$$\omega^2 = \frac{2g}{l} \qquad \text{angular frequency}$$

Pain, H. J. (2005). *The physics of vibrations and waves*. Wiley.

sistem elektrik



$$\ddot{q} + \frac{1}{LC} q = 0 \qquad \text{persamaan gerak}$$

$$\omega^2 = \frac{1}{LC} \qquad \text{angular frequency}$$

Pain, H. J. (2005). *The physics of vibrations and waves*. Wiley.