

Substituting (2) and (3) into (1)

$$\frac{d}{dt} \left(\frac{1}{2} m \dot{x}^2 + \frac{1}{2} k x^2 \right) = 0$$
$$\frac{1}{2} 2m \dot{x} \ddot{x} + \frac{1}{2} 2k x \dot{x} = 0$$

Finally we get

$$m \ddot{x} + kx = 0 \quad (4)$$

Which is equation of the motion of the system, alternatively

$$\ddot{x} + \frac{k}{m} x = 0 \quad (5)$$

Can also be written in

$$\ddot{x} + \omega_n^2 x = 0$$

where $\omega_n = \sqrt{\frac{k}{m}}$ (natural angular freq. in rad/s)

and $f_n = \frac{\omega_n}{2\pi} = \frac{1}{2\pi} \sqrt{k/m}$ (natural freq. in Hz)

Equation (4) or (5) is equation of motion of the system.

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