

Spring-Mass System is a mass attached to a spring. If one stretches the spring, then releases it, the spring will move the mass back and forth causing it to **oscillate**. The general differential equation that describes this system is

$$my'' + \gamma y' + ky = F(t)$$

where $y(t)$ is displacement of the spring from its *equilibrium position*, $m > 0$ is the *mass*, $k > 0$ is the *spring constant*, $\gamma > 0$ is the *damping coefficient*, and $F(t)$ is the *forcing function*.

In today's lesson we will look at the case in which the forcing function is zero, $F(t) = 0$:

$$my'' + \gamma y' + ky = 0$$

This is second order linear homogeneous differential equation with constant coefficients. We can use the methods from the previous lesson to solve this differential equation and describe the solutions behavior.

1. Spring-Mass System Without Damping

- (a) To start with let's look at an example that has no damping (or forcing). Write down a differential equation for a spring mass system that has mass of 3 kg and a spring constant of 12 kg/s².

$$3 \text{ kg} = m$$

$$12 \text{ kg/s}^2 = k$$

$$\text{NO DAMPING} \Rightarrow \gamma = 0$$

$$3y'' + 12y = 0$$

- (b) Find the general solution to this differential equation. Then find the particular solution if the mass is stretched 3 m and released with a positive velocity of 2 m/s.

$$3y'' + 12y = 0$$

CHAR. EQ.:

$$3\lambda^2 + 12 = 0$$

$$3\lambda^2 = -12$$

$$\lambda^2 = -4$$

$$\lambda = \pm 2i$$

$$\lambda_{1,2} = 0 \pm 2i: \quad \mu = 0 \quad \nu = 2$$

FUNDAMENTAL SOLUTIONS:

$$y_1 = e^{\lambda_1 t} \cos(\nu t) = \cos(2t)$$

$$y_2 = e^{\lambda_2 t} \sin(\nu t) = \sin(2t)$$

GENERAL SOLUTIONS:

$$y = c_1 y_1 + c_2 y_2 = c_1 \cos(2t) + c_2 \sin(2t)$$

PARTICULAR SOLUTIONS:

$$\text{if } y(0) = 3, \quad y'(0) = 2$$

$$c_1(1) + c_2(0) = 3 \quad c_1 = 3$$

$$-2c_1(0) + 2c_2(1) = 2 \quad c_2 = \frac{2}{2} = 1$$

$$y(t) = 3 \cos(2t) + \sin(2t)$$

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Katrin Zwirgmaier



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