

# Spring-Mass Systems Assignment

1. Consider a mass-spring-damper system with mass  $m$ , spring constant  $k$ , and damping coefficient  $c$ . The displacement  $x(t)$  from equilibrium satisfies the differential equation

$$m\ddot{x} + c\dot{x} + kx = F_0 \cos(\omega t) \quad (1)$$

(a) Assume the system is initially at rest, that is,  $x(0) = \dot{x}(0) = 0$ . Find the steady-state response  $x_{ss}(t)$ .

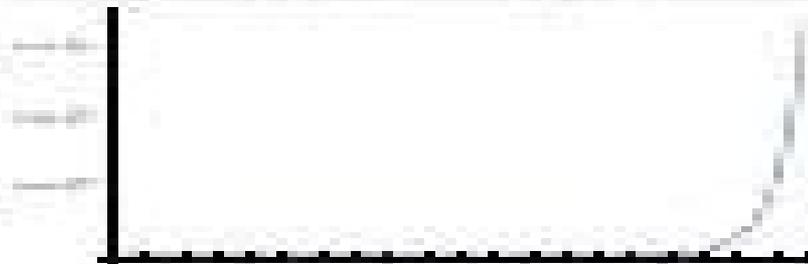
$$x_{ss}(t) = \frac{F_0}{\sqrt{(k - m\omega^2)^2 + (c\omega)^2}} \cos(\omega t - \phi)$$

$$\phi = \tan^{-1} \left( \frac{c\omega}{k - m\omega^2} \right)$$

(b) Find the amplitude  $A(\omega)$  and phase  $\phi(\omega)$  of the steady-state response  $x_{ss}(t)$  as a function of the driving frequency  $\omega$ .

$$A(\omega) = \frac{F_0}{\sqrt{(k - m\omega^2)^2 + (c\omega)^2}} \quad \phi(\omega) = \tan^{-1} \left( \frac{c\omega}{k - m\omega^2} \right)$$

(c) Plot the amplitude  $A(\omega)$  and phase  $\phi(\omega)$  versus  $\omega$ .



(d) Plot  $A(\omega)$  versus  $\omega$ .

2. Consider a mass-spring system with mass  $m$  and spring constant  $k$ . The displacement  $x(t)$  from equilibrium satisfies the differential equation

(a) Assume the system is initially at rest, that is,  $x(0) = \dot{x}(0) = 0$ . Find the steady-state response  $x_{ss}(t)$  and the natural frequency of the system.

# Spring Mass Systems Stephen Murray Answer Key

**LL Leslie**



**Spring Mass Systems Stephen Murray Answer Key:**

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