

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) Determine the steady-state response $x_{ss}(t)$ for $m=1$, $c=2$, $k=5$, $F_0=1$, and $\omega=1$.

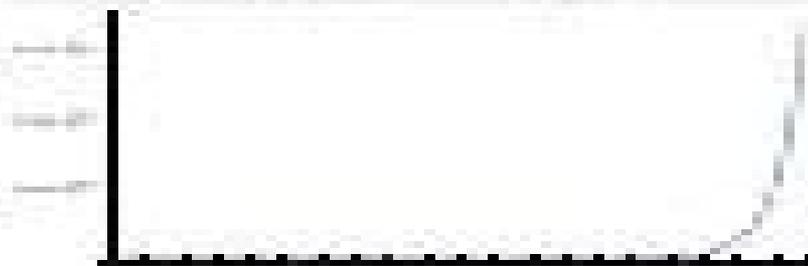
$$\ddot{x} + 2\dot{x} + 5x = \cos(t) \quad (2)$$

$$x_{ss}(t) = A \cos(t) + B \sin(t)$$

$$\ddot{x}_{ss} + 2\dot{x}_{ss} + 5x_{ss} = \cos(t) \Rightarrow -A \cos(t) - B \sin(t) + 2(-A \sin(t) + B \cos(t)) + 5(A \cos(t) + B \sin(t)) = \cos(t)$$

$$\Rightarrow (4A - B) \cos(t) + (2B - 4A) \sin(t) = \cos(t)$$

Equating coefficients, we get the following system:



(b) Plot $|x_{ss}|$ vs ω .

2. Consider a mass-spring system with mass $m=1$ and spring constant $k=10$.

(a) Determine the natural frequency ω_n and the period T of the undamped free response of the system.

Spring Mass Systems Stephen Murray Answer Key

Ying Liu



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Reviewing **Spring Mass Systems Stephen Murray Answer Key**: Unlocking the Spellbinding Force of Linguistics

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