

Foundations Materials Science Engineering
William

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Figure 1. Schematic diagram of the experimental setup for the study of the effect of the material properties on the dynamic behavior of the system. The system consists of a mass-spring-damper system with a mass m , a spring with stiffness k , and a damper with coefficient c . The system is subjected to a harmonic excitation $F \sin(\omega t)$. The displacement $x(t)$ is measured relative to the equilibrium position. The system is modeled using the following equation of motion:

$$m \ddot{x} + c \dot{x} + kx = F \sin(\omega t)$$

The parameters of the system are: $m = 1 \text{ kg}$, $k = 100 \text{ N/m}$, $c = 10 \text{ Ns/m}$, $F = 1 \text{ N}$, and $\omega = 1 \text{ rad/s}$. The results are shown for different values of the material properties ρ and E .

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