

Dynamics and Vibration

Do TWO of the following three problems.

1. A mass is connected to ground by a series combination of a spring and a dashpot.
 - a. Derive the equations of motion and write them in matrix form.
 - b. Find the natural frequencies of the system.
 - c. Explain why someone might refer to this as a “one-and-a-half degree-of-freedom system.”



