

GROUP MEMBERS:

CE 8060 – STRUCTURAL DYNAMICS
Homework #4

Assigned: Thursday, August 28, 2014
Due: Tuesday, September 2, 2014 (beginning of class)

Homework must be done neatly in pencil, on 8 ½" x 11" paper, stapled together. Each step must be easily followed; diagrams are useful. Your assumptions must be clearly stated.

Make Sure to Include The Cover Page!

Make Sure to Write Both Group Members' Names!

Each group is asked to build a physical model of a single-degree of freedom system (i.e. mass-spring system as shown in the below figure) and estimate the natural frequency of the physical system. For homework submission, each group should include a photo of the single-degree of freedom system, a brief description of the construction of the system and the hand calculations for the natural frequency.

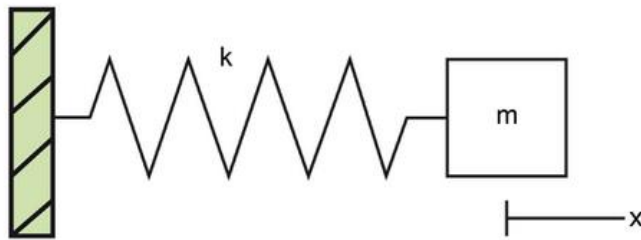


Figure 1: Schematic representation of mass-spring system