

GROUP MEMBERS:

CE 8060 – STRUCTURAL DYNAMICS
Homework #6

Assigned: Thursday, September 4, 2014
Due: Tuesday, September 9, 2014 (beginning of class)

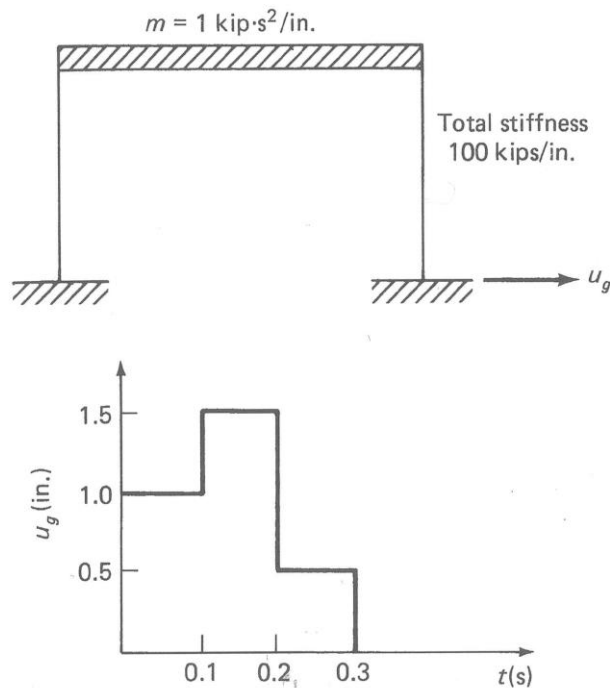
Homework must be done neatly in pencil, on 8 ½" x 11" paper, stapled together. Each step must be easily followed; diagrams are useful. Your assumptions must be clearly stated.

Make Sure to Include The Cover Page!

Make Sure to Write Both Group Members' Names!

Problem1: (10 points)

The single story frame shown in figure below has a total story stiffness of 100kips/in. The floor mass is 1 kip.s²/in. The frame is subjected to a ground displacement as shown in figure. Obtain the displacement and velocity history for the first 0.4s. Neglect damping.



Reading material reference: reading material #3 on Blackboard