

GROUP MEMBERS:

CE 8060 – STRUCTURAL DYNAMICS
Homework #15

Assigned: Thursday, October 9, 2014

Due: Tuesday, October 14, 2014 (at beginning of the 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 Write Both Group Members' Names!

Question1: Assuming constant acceleration within the time step (t_n, t_{n+1}), obtain the standard formulation (displacement, velocity and acceleration) for the Newmark's Method.