

CE 4010/6010

Homework #15

Assigned: Tuesday, March 25, 2014;
Due: Thursday, March 27, 2014; end of class

Homework must be done neatly in pencil, on 8 1/2" x 11" paper, stapled together. Each step must be easily followed; diagrams are useful. State your assumptions. Homework that is not neat and legible may be rejected. Staple the question sheet to the front of your homework.

Make Sure To Include The Cover Page!

Problem 1: (100 points) Condense the K matrix and P vector to only DOF #1 and calculate the deformation at DOF #1 for the following beam. Use only hand calculations. You can confirm your solution from the tables available in your steel manual.

