

CEE433 – Homework Assignment 8

Assigned: 8 May 2008

Due: 13 May 2008

1. Determine points in the nominal interaction diagram for the column shown below. Consider bending about the y-axis only. Assume the following material properties: $f'_c=6,000$ psi , $f_y=60,000$ psi. Calculate the points corresponding to the following strain conditions in the extreme tension layer of steel:

1. $\epsilon_s=0$
2. $\epsilon_s=\epsilon_y$
3. $\epsilon_s=0.5\epsilon_y$
4. $\epsilon_s=2.0\epsilon_y$
5. Centric compressive and tensile loads

