Lesson Plan # 9:
Beam-Columns

Topics:

- Moment – Axial Load Interaction Equations
- Moment Amplification
- Beam-Columns in Frames – Braced and Unbraced

Learning Objectives:

- Students will be able to analyze beam-columns for strength using LRFD

Textbook Sections: 6.1 – 6.6

Suggested Problems: 6.2-2, 6.5-1, 6.5-2, 6.5-3, 6.5-5, 6.5-6, 6.5-7, 6.5-9, 6.5-10, 6.5-11, 6.5-12, 6.5-13, 6.6-3, 6.7-1, 6.7-2, 6.7-3

Required Problems:

Due: April 15, 2010

1. Problem 6.2-1 of Segui – part (a) only
2. Problem 6.5-4 of Segui – part (a) only
3. Problem 6.5-8 of Segui – part (a) only
4. Problem 6.6-1 of Segui
5. Problem 6.6-2 of Segui – part (a) only