53:134 Structural Design II (Steel Structures) Spring 2006 (Lecture Summary) Week 1 (1/18 - 1/20/06)

1-18-06

- ◆ Introduction: Office hours, TA, text and reference books; grading; course learning objectives; course schedule.
- ♦ Course web page; AISC web site; others.
- ♠ <u>Review</u>: Chapter 1 of Rajan's book Introduction. Types of structural systems, structural analysis - classical and numerical analysis techniques, structural design introduction.
- Read: Chapter 1 of the text

1-20-06

- ♠ Review: Chapter 2 of Rajan's book Determinate Structural Analysis. Determinate system; indeterminate system; degree of indeterminacy; equations of equilibrium; free body diagram; types of supports.
- Planar truss analysis method of joints, methods of sections.
- ◆ Planar frame analysis sign convention for shear force and bending moment, positive and negative faces, shear and moment diagrams.
- ◆ Read: Chapter 2 of the text.

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