

STRUCTURAL ANALYSIS THIRD EXAM¹

Exam 3 is Thursday, June 23, 2011 from 5:30 PM – 7:30 PM EDT, 4:30 – 6:30 PM CDT. This two-hour exam is worth 30% of your grade.

The exam will be closed book and notes. **However, you can bring two pages of handwritten summary notes with you to the exam – no photocopied material. The instructor will provide relevant figures, which are available in the “Exam 3 Supplements” file.**

Exam 3 will include six problems:

1. Müller-Breslau principle for constructing qualitative influence lines and critical live load placement based on the qualitative influence lines.
2. Approximate analysis of a truss with double diagonals.
3. Approximate analysis of a continuous beam.
4. Force method of analysis for solving a statically indeterminate beam.
5. Force method of analysis for solving a statically indeterminate truss.
6. A continuous beam analysis using plastic analysis principles.

¹ **Note** it is the instructor’s policy not to return the last exam. You are encouraged to contact the instructor to review your performance on the exam. Keep in mind that the instructor plans to have the exams graded by Friday, June 24 by 4:00 pm.