Statistics 8052
Spring 2008
B. Grund

Assignment #4

(Due: Monday, March 3, 2008)

Reading: Oehlert, Chapters 13 and 14; read 14.1-3, and at least skim the rest of Chapter 14.

Written Assignment:

1. E13.5

2. P13.4

3. P14.4. Intra-block analysis, and intra-block with inter-block recovery.

   Additionally:
   b) Provide estimates for the first four treatment means, $\mu_A, \ldots, \mu_D$.

   c) After looking at the data, it appears that treatments D and J result in the largest and smallest estimated means, and investigators now are interested in a 95% confidence interval for $\mu_D - \mu_J$. Provide a confidence interval that takes into account that the decision was made after looking at the data.

4. P14.5

5. P14.6.
   Remarks:
   - Skeleton ANOVA tables consist of two columns: a list of the effects in the model ("Source of variation") and dfs.
   - If you have designs with incomplete blocks, the skeleton ANOVA table should be for the intra-block analysis.

Hint: Remember to check whether you need to transform the response, for each data problem.