

Homework Set 5

Due Wednesday, March 16, 2011, before class starts

1. Reading: Chapter 13.
2. Ex. 13.69 a c, 13.70 a (pp. 870-873).
3. Use the data from Ex. 13.69, run a best subsets analysis to choose the best main-effect model. Plot R^2 vs. p ($=k + 1$, the number of parameters in the model). Explain why you chose that particular model.
4. Based on the model you picked in (3), are there any significant interactions that should be included in the model? (You may use stepwise regression or best subsets analysis to choose interactions.)