

Due: Thursday, February 21, 2019

- This set of problems are from Chapter 14 in Kutner et al., *Applied Linear Regression Models* 4th edition (or, Applied Linear Statistical Models, 5th edition). You can find Chapter 14 of the book on Blackboard.
1. Kutner et al, Problem 14.27 (b)
 - Use a first order model with 1 predictors X_1 . (This is the result from Problem 14.21 (d).)
 - In addition to the plot and your comments, report the values of the studentized Pearson residuals (some books may call them “standardized Pearson residual”) of the first 3 cases.
 2. Kutner et al, Problem 14.28 (c)
 - Use a first order model with 2 predictors X_1 and X_2 . (This is the result from Problem 14.22 (d).)
 - In addition to the plot and your comments, report the values of the deviance residuals of the first 3 cases.
 3. Kutner et al, Problem 14.32
 - To plot an “index plot,” simply use
`> plot(variable)`

The following 2 questions are moved to HW 5 depending on our progress in class.

~~4. Kutner et al, Problem 14.28 (b)~~

~~5. Kutner et al, Problem 14.24~~

- ~~• In addition, conduct a Pearson Chi-square goodness of fit test at $\alpha=0.01$.~~

This is the end of HW 4.