CVEN 302-501

Computer Applications in Engineering and Construction

Problem Set #7 Linear Least-Squares Regression

Date distributed : 10/19/2015
Date due : 10/26/2015 at 8:00 a.m.

Return your solution either in class or in my mail box (8th Floor, CE/TTI) by the date and time shown above. Please show all your work and follow the rules outlined in the course syllabus.

1 Reading

Read Chapter 14 in Chapra (2011). Answer the following question:

• What is the coefficient of determination?

2 Book Problems

Work book problems 14.4, 14.6, 14.8, and 14.11 in Chapra (2011). Include a plot of the data (using Matlab) with the best-fit line for each problem with your solution. Work all regressions by hand.

A References