A First Course on Kinetics and Reaction Engineering

How To Use FitLinmbSR.m

- 1. Verify that FitLinmbSR.m is the appropriate script to use
 - a. The data points must be of the form (x, \hat{y})
 - b. The model being fit to those data must be of the form y = mx + b
- 2. Make sure that FitLinmbSR.m is stored in the current MATLAB working directory or in a directory that is in the MATLAB search path
- 3. Create a column vector named x in the MATLAB workspace; it should contain the values of *x* for each of the data points, one per row
- 4. Create a column vector named y_hat in the MATLAB workspace; it should contain the values of \hat{y} for each of the data points, one per row
- 5. Execute the script by typing the following at the MATLAB command prompt: FitLinmbSR
- 6. The following quantities will be listed in the MATLAB command window
 - a. r_squared the correlation coefficient for the fit
 - b. m the fitted value of the parameter, m
 - c. m_u the ± 95% confidence limits for the parameter, m
 - d. b the fitted value of the parameter, b
 - e. b_u the ± 95% confidence limits for the parameter, b
- 7. A model plot will be displayed