

# A First Course on Kinetics and Reaction Engineering

## How To Use FitLinmSR.m

1. Verify that FitLinmSR.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  $y = mx$
2. Make sure that FitLinmSR.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: `FitLinmSR`
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  $\pm 95\%$  confidence limits for the parameter,  $m$
7. A model plot will be displayed