

## 6. Method of Least Squares:

(pp. 1001)

### Method of Least Squares (Least Squares Regression):

Examp 6.1:

$$q = \sum_{i=1}^n (y_i - a - bx_i)^2 \quad : \text{Sum of squares of errors}$$

x	y
-5	-2
2	4
7	3.5

$$\frac{\partial q}{\partial a} = 0 \Rightarrow -2 \sum (y_i - a - bx_i) = 0$$

$$\frac{\partial q}{\partial b} = 0 \Rightarrow -2 \sum x_i (y_i - a - bx_i) = 0$$

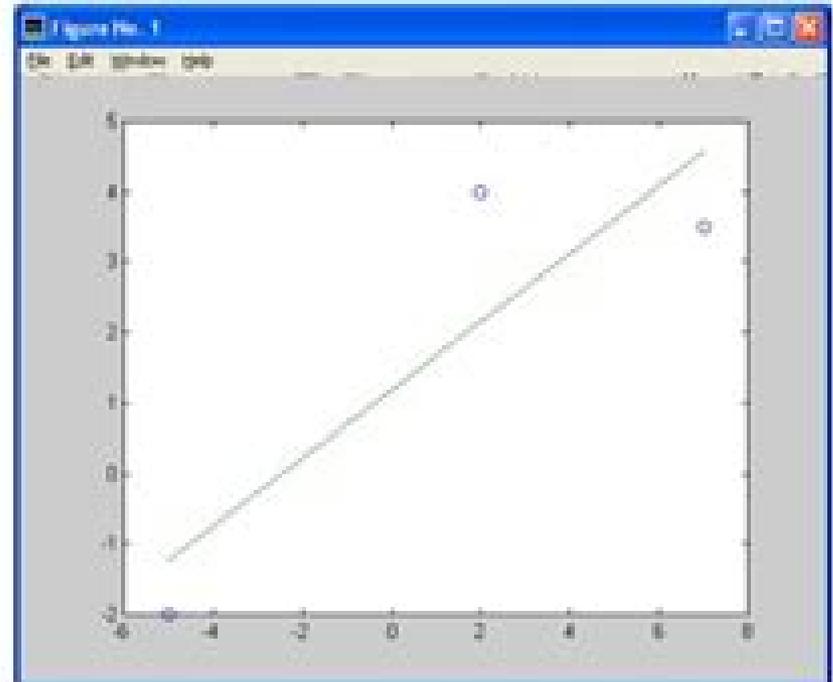
$$\begin{bmatrix} n & \sum x_i \\ \sum x_i & \sum x_i^2 \end{bmatrix} \begin{Bmatrix} a \\ b \end{Bmatrix} = \begin{Bmatrix} \sum y_i \\ \sum x_i y_i \end{Bmatrix}$$

$$y = a + bx$$

$$\begin{bmatrix} 3 & 4 \\ 4 & 78 \end{bmatrix} \begin{Bmatrix} a \\ b \end{Bmatrix} = \begin{Bmatrix} 5.5 \\ 42.5 \end{Bmatrix}$$

$$\begin{Bmatrix} a \\ b \end{Bmatrix} = \frac{1}{218} \begin{bmatrix} 78 & -4 \\ -4 & 3 \end{bmatrix} \begin{Bmatrix} 5.5 \\ 42.5 \end{Bmatrix} \quad \begin{array}{l} a = 1.188 \\ b = 0.484 \end{array}$$

$$y = 1.188 + 0.484x$$



# Least Squares Methods For System Identification

**Marcel A. Müller**



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