

# NUMERICAL METHODS

C / RAPPY EXAM 12 / 11/19 / 2022 [20.000]

## LEAST SQUARES REGRESSION

Goal: minimize the sum of the squares of the residual errors.



$$S_r = \sum_{i=1}^n d_i = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)$$

$$S_r^2 = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)^2$$

$$a_0 = \frac{\sum y_i}{n} \quad a_1 = \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}$$

## STANDARD ERROR:

$$S_{y_1} = \sqrt{\frac{S_r}{n-2}} \quad S_{y_2} = \sqrt{\frac{S_r (1-x^2)}{n-2}}$$

## STANDARD DEVIATION:

$$S_y = \sqrt{\frac{S_r}{n-1}} \quad S_x = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

## POLYNOMIAL QUADRATIC REGRESSION:



$$S_r = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$$

Take derivatives of  $S_r$  to find the error.

$$\frac{\partial S_r}{\partial a_0} = -2(\sum y_i - \sum a_0 - a_1 \sum x_i - a_2 \sum x_i^2) = 0$$

$$\frac{\partial S_r}{\partial a_1} = -2(\sum x_i y_i - \sum a_0 \sum x_i - a_1 \sum x_i^2 - a_2 \sum x_i^3) = 0$$

$$\frac{\partial S_r}{\partial a_2} = -2(\sum x_i^2 y_i - \sum a_0 \sum x_i^2 - a_1 \sum x_i^3 - a_2 \sum x_i^4) = 0$$

$$\begin{bmatrix} \sum 1 & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \\ \sum x_i^2 y_i \end{bmatrix}$$

Matrix inversion to find coefficients.

## INTERPOLATION

Use a polynomial fit:



## ODE'S

**Euler's Method:**  

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

## Runge-Kutta Method:

**Runge-Kutta Method:**  

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

Taylor Series:  

$$y(x+\Delta x) = y(x) + \Delta x y'(x) + \frac{\Delta x^2}{2} y''(x) + \dots$$

## CLASSIC 4th ORDER Runge-Kutta:

$$y_{i+1} = y_i + \frac{\Delta x}{4} (k_1 + 2k_2 + 2k_3 + k_4)$$

$$k_1 = f(x_i, y_i)$$

$$k_2 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}\Delta x k_1)$$

$$k_3 = f(x_i + \frac{1}{2}\Delta x, y_i + \Delta x k_2)$$

$$k_4 = f(x_i + \Delta x, y_i + \Delta x k_3)$$

## PDE'S

### FINITE DIFFERENCE METHOD:



## EIGEN VALUES

$\lambda = \text{eigen value}$

Example:  $2 \times 2$

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} \lambda x_1 \\ \lambda x_2 \end{bmatrix}$$

The determinant:

$$\begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

Single  $2 \times 2$ :

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad \det(A - \lambda I) = \det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix}$$

$$\det(A - \lambda I) = (a-\lambda)(d-\lambda) - bc = \lambda^2 - (a+d)\lambda + (ad-bc)$$

Full matrix with given:

$$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$x_1 = -x_2$   
 $x_1 = x_2$   
 Eigen values:  $\lambda_1 = 0, \lambda_2 = 0$

$2 \times 2$  matrix:

$$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$-x_1 + x_2 = 0 \Rightarrow x_1 = x_2$   
 $x_1 + -1x_2 = 0 \Rightarrow x_1 = x_2$   
 Eigen values:  $\lambda_1 = 0, \lambda_2 = 0$

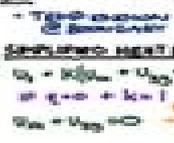
### 1D Heat Conduction



Central difference:  

$$u_{i+1} = u_i + \Delta x \left( \frac{u_{i+1} - u_{i-1}}{2\Delta x} - u_i \right)$$

### 2D Heat Conduction



Central difference:  

$$u_{i,j} = u_{i,j} + \Delta x \left( \frac{u_{i+1,j} - u_{i-1,j}}{2\Delta x} + \frac{u_{i,j+1} - u_{i,j-1}}{2\Delta x} - u_{i,j} \right)$$

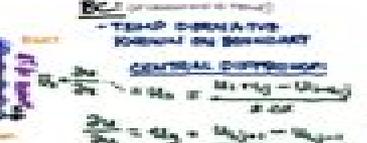
### 1D Heat Conduction



Right boundary B.C.:  

$$\frac{\partial u}{\partial x} = 0 \Rightarrow \frac{u_{i+1} - u_{i-1}}{2\Delta x} = 0 \Rightarrow u_{i+1} = u_{i-1}$$

### 2D Heat Conduction



Bottom boundary B.C.:  

$$\frac{\partial u}{\partial y} = 0 \Rightarrow \frac{u_{i,j+1} - u_{i,j-1}}{2\Delta x} = 0 \Rightarrow u_{i,j+1} = u_{i,j-1}$$

### 5th row of a matrix



Top boundary B.C.:  

$$\frac{\partial u}{\partial y} = 0 \Rightarrow \frac{u_{i,5} - u_{i,4}}{\Delta x} = 0 \Rightarrow u_{i,5} = u_{i,4}$$

[A] MATRIX:  

$$-u_{i-1,j} + 4u_{i,j} - u_{i+1,j} - u_{i,j-1} = -2\Delta x u_{i,j}$$

$$-2u_{i,j} + 4u_{i,j} - u_{i,j-1} - u_{i,j+1} = -2\Delta x u_{i,j}$$

$$-u_{i,j} - u_{i,j+1} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_{i,j}$$

$$-u_{i,j} - u_{i,j-1} + 4u_{i,j} - 2u_{i,j+1} = -2\Delta x u_{i,j}$$

5th row of a matrix:  

$$f(x) = \frac{f(x_1) - f(x_2)}{2\Delta x}$$

$$f(x) = \frac{f(x_1) - 3f(x_2) + 3f(x_3) - f(x_4)}{12\Delta x}$$

# Numerical Computing With Matlab Solutions

**Yan Bai**



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