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CALL NUMBERED THE
TOP OF THE LEAF OF
THE NATIONAL ARCHIVE



Find group $\bar{y}$ → **Define group**

$$\bar{y}_i = \frac{n_i \sum (y_i \cdot x_i) - \sum y_i \cdot \sum x_i}{n_i - 1} = \frac{10 \cdot 100 - 10 \cdot 10}{10 - 1} = 9.09$$

$\bar{y}_1$ = sum of the cluster group,
 $\bar{y}_2$ = cluster size, number of the cluster
 group's size

$$Q_0 = \frac{\sum m_i}{n} \Rightarrow \frac{\sum m_i}{n} \Rightarrow Q_0 = 5 - 0.5 = 4.5$$

$\sum a_n = a_0 \pi$

$$\begin{bmatrix} \sum x_i^2 & \sum x_i y_i & \sum x_i^2 \\ \sum x_i y_i & \sum y_i^2 & \sum y_i^2 \\ \sum x_i^2 & \sum y_i^2 & \sum y_i^2 \end{bmatrix} \begin{bmatrix} a \\ b \\ c \end{bmatrix} = \begin{bmatrix} \sum x_i^3 \\ \sum x_i^2 y_i \\ \sum x_i y_i^2 \end{bmatrix} \rightarrow [A] [X] = [B]$$

$$[X] = [A]^{-1} [B]$$

COEFFICIENT OF DETERMINATION

$$r^2 = \frac{\sum y_i - \sum y_i^2}{\sum y_i}$$

data points *deformation*

FINITE DIFFERENCE METHOD



Diagram illustrating a 2D lattice structure with parameters $L=5$ and $S=5$. The lattice is a 5x5 grid of nodes. The top edge is labeled $T=500x=1000000$, the bottom edge is labeled $T=500x=1000000$, and the right edge is labeled $T=500x=1000000$. The left edge is labeled $L=5$ and $S=5$. The central node is labeled CENTRAL DIFFERENCE.

$$u_{xx}(x,y) = \frac{u(x-x_0,y) - 2u(x_0,y) + u(x_0+y,y))}{\Delta x^2}$$

$$u_{yy}(x,y) = \frac{u(x,y) - 2u(x,y_0) + u(x,y_0+y))}{\Delta y^2}$$

$$-2u_{i,j+1} + q_{u_{i,j}} - u_{i,j+1} - u_{i,j+2} = -2\Delta x \bar{u}_i$$
 Bottom:
$$-2u_{i,j+1} = q_{u_{i,j}} - u_{i,j+1} - u_{i,j+2} = -2\Delta x \bar{u}_i$$
 Bottom:
$$-u_{i,j} - u_{i,j+1} + q_{u_{i,j}} - 2u_{i,j+1} = -2\Delta x \bar{u}_i$$
 TOP:
$$-u_{i,j} - u_{i,j+1} + q_{u_{i,j}} - 2u_{i,j+1} = -2\Delta x \bar{u}_i$$

$$S_{\overline{X}} = \sqrt{\frac{S^2}{n-2}} \quad S_{\overline{Y}} = \sqrt{\frac{S^2(b_1 - b_1^2)}{n-2}}$$
$$S_2 = \sqrt{\frac{S_0}{2n+1}} \quad S_2 = \sqrt{\frac{2n(n-5)}{2n+1}}$$

$$c_{2,2} = \frac{1}{2} - c_{2,1} = 0$$

$$(c_2 = c_{2,1} = c_{2,2} = 0)$$

[illegible]

Example 1:

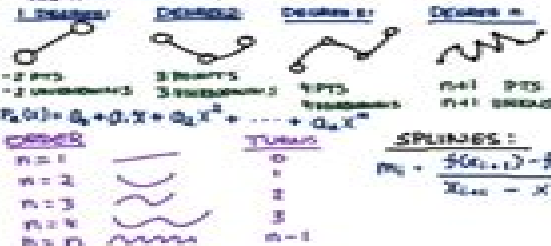
$$\begin{bmatrix} 2x_1 & -3x_2 & 4x_3 \\ 5x_1 & -2x_2 & 6x_3 \\ 7x_1 & 4x_2 & 8x_3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

Trick (Substitution):

$$\begin{bmatrix} 2x_1 - 3x_2 & 4x_3 \\ 5x_1 - 2x_2 & 6x_3 \\ 7x_1 & 4x_2 - 8x_3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\frac{d\theta}{dt} = \Omega_0 = \frac{\omega_{L+1} - \omega_{L-1}}{2\Delta t}$$

— **2009-10** **2010-11** **2011-12** **2012-13** **2013-14** **2014-15** **2015-16** **2016-17** **2017-18** **2018-19** **2019-20** **2020-21**



— [Parents' Helpline](#)

$$\frac{dy}{dx} = f(x, y) \quad y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

CLIMATE CHANGE: ADDRESSING CLIMATE CHANGE: ALL HANDS ON

$$\frac{d}{dx} f(x,y) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x, y) - f(x, y)}{\Delta x}$$

$$y_{\text{new}} = y_1 - \frac{1}{4}(u_1 + 2u_2 + 2u_3 + u_4)\Delta x$$

$$\begin{aligned} R_1 &= f(x_1, y_1) \\ R_2 &= f\left(x_1 + \frac{1}{2} \Delta x, y_1 + \frac{1}{2} R_1 \Delta x\right) \\ R_3 &= f\left(x_1 + \frac{1}{2} \Delta x, y_1 + \frac{1}{2} R_2 \Delta x\right) \\ R_4 &= f\left(x_1 + \Delta x, y_1 + R_3 \Delta x\right) \end{aligned}$$

$$\begin{aligned} \mathbf{z}_{i+1} &= \mathbf{z}_i + \Delta x \sum_{j=1}^n \mathbf{g}_j(\mathbf{z}_i) & \text{Euler's method} \\ \mathbf{z}_{i+1} &= \mathbf{z}_i + \Delta x \sum_{j=1}^n \mathbf{g}_j(\mathbf{z}_i) & \text{Runge-Kutta method} \end{aligned}$$

$-[x_1] + [x_2] = 0$ $x_2 = x_1$
 $[x_1] + -[x_2] = 0$ $x_1 = x_2$
 $x_1 = 1$
 $x_2 = 1$
 - Zwei Einheitsvektoren
 $[x_1] = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$

Legend: FIRST and LAST are not required

$$\begin{bmatrix} 0 & -1 & 0 & -1 & 9 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = 0$$



CONTINUED FROM THE PREVIOUS PAGE

$$f(x) = \frac{f(x_{n+1}) - f(x_{n-1})}{2h}$$

$$f'(x) = \frac{-f(x_{n+2}) + 3f(x_{n+1}) - 3f(x_{n-1}) + f(x_{n-2}))}{12h}$$

Numerical Methods And Analysis

J Rink



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