

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:

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

$$a_0 = \bar{y} - a_1 \bar{x}$$

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.

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

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

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

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

Use Gauss-Jordan elimination to solve for a_0, a_1, a_2 .

INTERPOLATION

Use a polynomial $P(x)$

LAGRANGE	HERMITE	LAGRANGE	LAGRANGE
2 pts 1 interval 1 degree	2 points 2 intervals 3 degree	3 pts 2 intervals 2 degree	n+1 pts n intervals n degree
$P(x) = a_0 + a_1 x + a_2 x^2 + \dots + a_n x^n$			
ORDER		TURNS	SPLINES:
n=1	—	0	$P_1 = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$
n=2	—	1	
n=3	—	2	
n=4	—	3	
n=5	—	4	

ODE'S

EULER METHOD

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

HEUN'S METHOD

$$\frac{dy}{dx} = f(x,y)$$

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

$$y_{i+1} = y_i + \frac{f(x_i, y_i) + f(x_{i+1}, y_{i+1})}{2} \Delta x$$

Taylor Series:
 $y(x+\Delta x) = y(x) + \Delta x y'(x) + \frac{\Delta x^2}{2} y''(x) + \dots$
 $y(x+\Delta x) = y(x) + f(x,y) \Delta x$

CLASSIC 4th ORDER RUNGE-KUTTA

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

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

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

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

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

PDE'S

FINITE DIFFERENCE METHOD



PROBLEM 1:
 1D Rod, length L, $T = T(x,y)$
 BC: $T(0) = T_0$, $T(L) = T_L$
 Simplified heat eq: $u_x = k(u_{xx} + u_{yy}) + q$
 if $q = 0$ and $k=1$
 $u_{xx} + u_{yy} = 0$
 Central difference:
 $u_{xx}(i,j) = \frac{u(i-1,j) - 2u(i,j) + u(i+1,j)}{\Delta x^2}$
 $u_{yy}(i,j) = \frac{u(i,j-1) - 2u(i,j) + u(i,j+1)}{\Delta y^2}$

EIGEN VALUES

$\lambda = \text{Eigenvalue}$

Example: 2×2

$$\begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

The determinant:

$$\begin{bmatrix} a_{11} - \lambda & a_{12} \\ a_{21} & a_{22} - \lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$|A| = \det \begin{bmatrix} a & b \\ c & d \end{bmatrix} = 0$$

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

$$\lambda = \frac{a+d}{2} \pm \sqrt{\left(\frac{a-d}{2}\right)^2 + bc}$$

Find Eigen values from matrix

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

$$x_1 + x_2 = 0 \Rightarrow x_1 = -x_2$$

$$x_1 + x_2 = 0 \Rightarrow x_1 = -x_2$$

$$x_1 = [-1]$$

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

$$-x_1 + x_2 = 0 \Rightarrow x_1 = x_2$$

$$x_1 + -1x_2 = 0 \Rightarrow x_1 = x_2$$

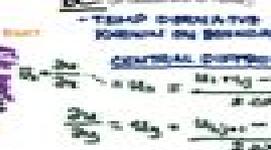
$$x_1 = [1]$$

HEUN'S METHOD



RIGHT NEIGHBOR E.C.
 $\frac{\partial u}{\partial x} = u_x = \frac{u_{i+1,j} - u_{i-1,j}}{2\Delta x}$
 $u_{i+1,j} = u_{i-1,j} + 2\Delta x u_x$

HEUN'S METHOD



MIDDLE NEIGHBOR E.C.
 $\frac{\partial u}{\partial x} = u_x = \frac{u_{i+1,j} - u_{i-1,j}}{2\Delta x}$
 $u_{i+1,j} = u_{i-1,j} + 2\Delta x u_x$

5th ROW OF A MATRIX



TOP NEIGHBOR E.C.
 $\frac{\partial u}{\partial y} = u_y = \frac{u_{i,j+1} - u_{i,j-1}}{2\Delta y}$
 $u_{i,j+1} = u_{i,j-1} + 2\Delta y u_y$

LEFT NEIGHBOR E.C.
 $u_{i-1,j} = u_{i+1,j} - 2\Delta x u_x$

[A] MATRIX:
 $u_{i-1,j} + 4u_{i,j} - u_{i+1,j} - u_{i,j-1} = 2\Delta x u_x$
 $-2u_{i-1,j} + 4u_{i,j} - u_{i+1,j} - u_{i,j-1} = -2\Delta x u_x$
 $2u_{i-1,j} + 4u_{i,j} - u_{i+1,j} - u_{i,j-1} = -2\Delta x u_x$
 $-2u_{i-1,j} - 4u_{i,j} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_x$
 TOP:
 $-u_{i-1,j} - u_{i+1,j} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_x$

5th ROW:
 CENTERED FINITE-DIFFERENCE EQUATION:
 $f(x) = \frac{f(x_2) - f(x_0)}{2\Delta x}$
 $f(x) = \frac{f(x_2) - 3f(x_1) + 3f(x_0) + f(x_3)}{12\Delta x}$

Numerical Analysis Notes Bca

D Siedentop



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Deep Excavations in Soil John Endicott, 2020-08-04 The book describes the theory and current practices for design of earth lateral support for deep excavations in soil It addresses basic principles of soil mechanics and explains how these principles are embodied in design methods including hand calculations It then introduces the use of numerical methods including the fundamental beam on springs models and then more sophisticated computer programmes which can model soil as a continuum in two or three dimensions Constitutive relationships are introduced that are in use for representing the behaviour of soil including a strain hardening model and a Cam Clay model including groundwater flow and coupled consolidation These methods are illustrated by reference to practical applications and case histories from the author's direct experience and some of the pitfalls that can occur are discussed Theory and design are strongly tied to construction practice with emphasis on monitoring the retaining structures and movement of surrounding ground and structures in the context of safety and the Observational Method Examples are presented for conventional Bottom up and Top down sequences along with hybrid sequences giving tips on how to optimise the design and effect economies of cost and time for construction It is written for practising geotechnical civil and structural engineers and especially for senior and MSc students [Advances in Computational Mechanics](#) Manolis Papadrakakis, B. H. V. Topping, 1994 Includes a selection of papers that were presented at the Second International Conference on Computational Structures Technology held in Athens Greece from 30 August 1 September 1994 **Reflections on the Foundations of Mathematics: Essays in Honor of Solomon Feferman** Wilfried Sieg, Richard Sommer, Carolyn Talcott, 2002-08-16 Solomon Feferman has shaped the field of foundational research for nearly half a century These papers most of which were presented at the symposium honoring him at his 70th birthday reflect his broad interests as well as his approach to foundational research which places the solution of mathematical and philosophical problems at the top of his **British Reports, Translations and Theses** British Library. Document Supply Centre, British Library. Lending Division, 1994 Issue for Mar 1981 contains index for Jan Mar 1981 in microfiche form *Board of Contract Appeals Decisions* United States. Armed Services Board of Contract Appeals, 2002 [Taking Stock of Environmental Assessment](#) Jane Holder, Donald McGillivray, 2007-11-13 Examining the relationship between law environmental governance and the regulation of decision making this volume both reflective and contextual in approach uses a wide range of theories to explore the key features of modern environmental assessment **American Book Publishing Record**, 2003 **Human and Ecological Risk Assessment** Dennis J. Paustenbach, 2024-04-15 Understand the fundamentals of human risk assessment with this introduction and reference Human risk assessments are a precondition for virtually all industrial action or environmental regulation all the more essential in a world where chemical and environmental hazards are becoming more abundant These documents catalog potential environmental toxicological ecological or other harms resulting from a particular hazard from chemical spills to construction projects to dangerous workplaces They turn on a number of variables

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Freedom's Port Christopher Phillips, 1997 Baltimore's African American population nearly 27 000 strong and more than 90 percent free in 1860 was the largest in the nation at that time Christopher Phillips's Freedom's Port the first book length study of an urban black population in the antebellum Upper South chronicles the growth and development of that community He shows how it grew from a transient aggregate of individuals many fresh from slavery to a strong overwhelmingly free community less wracked by class and intraracial divisions than were other cities Almost from the start Phillips states Baltimore's African Americans forged their own freedom and actively defended it in a state that maintained slavery and whose white leadership came to resent the liberties the city's black people had achieved

Vortex Flow Aerodynamics North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Fluid Dynamics Panel. Symposium, 1991

The SAE Journal Society of Automotive Engineers, 1931 1938 1946 include as a separate section the Society's Transactions

Applied Mechanics Reviews, 1974

British Books, 1965

The Standard Periodical Directory, 2003

Mathematical Reviews, 2008

Social Science Abstracts, 1932

Bookseller and Stationery Trades' Journal, 1966 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series

Electrical & Electronics Abstracts, 1997

Publisher's Monthly, 2001

Statistics Catalog 2005 Neil Thomson, 2004-09

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