

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 derivative 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:

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

$$y' = \frac{y^2 + 2x}{2} \quad f(x, y) = \frac{y^2 + 2x}{2}$$

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

$\lambda = \text{eigen value}$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad \det(A - \lambda I) = 0$$

$$\det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} = (a-\lambda)(d-\lambda) - bc = 0$$

$$\lambda^2 - (a+d)\lambda + (ad-bc) = 0$$

Single 2x2:

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad \det(A - \lambda I) = 0$$

$$\det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} = (a-\lambda)(d-\lambda) - bc = 0$$

$$\lambda^2 - (a+d)\lambda + (ad-bc) = 0$$

Two eigen values with same eigenvector:

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

$$(a-\lambda)x + by = 0$$

$$cx + (d-\lambda)y = 0$$

$$\lambda_1 = a = d$$

$$\lambda_2 = a = d$$

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

$$-ax + bx = 0 \quad x_1 = x_2$$

$$cx + -dx = 0 \quad x_1 = x_2$$

$$x_1 = x_2$$

$$C = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

1D Heat Conduction

$T = T(x, y, z, t)$

$\frac{\partial T}{\partial t} = \alpha \nabla^2 T$

Central Difference:

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

Right Boundary B.C.:

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

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

Left Boundary B.C.:

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

2D Heat Conduction

$\frac{\partial T}{\partial t} = \alpha \nabla^2 T$

Central Difference:

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

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

Right Boundary B.C.:

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

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

Left Boundary B.C.:

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

Top Boundary B.C.:

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

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

Bottom Boundary B.C.:

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

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

5th Row of A Matrix

$$\begin{bmatrix} 0 & -1 & 0 & -1 & 0 & -1 & 0 & -1 & 0 \end{bmatrix} \begin{bmatrix} u_1 \\ u_2 \\ u_3 \\ u_4 \\ u_5 \\ u_6 \\ u_7 \\ u_8 \\ u_9 \end{bmatrix} = 0$$

Top Boundary B.C.:

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

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

Bottom Boundary B.C.:

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

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

[A] MATRIX:

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

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

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

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

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

TRUNC ERROR:

Centered Finite-Difference Error:

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

$$f(x) = \frac{f(x+\Delta x) + 3f(x) - 3f(x-\Delta x) + f(x)}{4\Delta x}$$

Numerical Methods Of Statistics

Dr. Manish Goyal



Numerical Methods Of Statistics:

Numerical Methods of Statistics John F. Monahan, 2001-02-05 This 2001 book provides a basic background in numerical analysis and its applications in statistics

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Numerical Methods of Statistics John Monahan, *Numerical Methods and Statistical Techniques Using 'C'* Manish Goyal,2009

STATISTICS AND NUMERICAL METHODS Dr. R. Nagendran,2018-01-23 This book spreads into Five chapters covering the various aspects of Statistics and Numerical Methods This book covers the syllabus of B E Courses in Mechanical Engineering Automobile Engineering and production Engineering

Numerical Analysis for Statisticians Kenneth Lange,2010-06-15 Numerical analysis is the study of computation and its accuracy stability and often its implementation on a computer This book focuses on the principles of numerical analysis and is intended to equip those readers who use statistics to craft their own software and to understand the advantages and disadvantages of different numerical methods

Statistics and Numerical Methods Dr. S. Mohan Prabhu,Dr. G. Radha,Ms. Tejaswini Nadgauda,Dr. Indumathi R S,2024-08-31 Statistics and Numerical Methods a comprehensive guide to understanding statistical concepts and numerical techniques essential for analyzing and solving real world problems Covering topics such as probability data analysis statistical inference linear regression and various numerical methods this book bridges theoretical foundations with practical applications Designed for students and professionals in fields like engineering mathematics and the sciences it presents step by step examples exercises and illustrations to foster analytical thinking and precise computational skills

A Handbook of Numerical and Statistical Techniques J. H. Pollard,1977 This handbook is designed for experimental scientists particularly those in the life sciences It is for the non specialist and although it assumes only a little knowledge of statistics and mathematics those with a deeper understanding will also find it useful The book is directed at the scientist who wishes to solve his numerical and statistical problems on a programmable calculator mini computer or interactive terminal The volume is also useful for the user of full scale computer systems in that it describes how the large computer solves numerical and statistical problems The book is divided into three parts Part I deals with numerical techniques and Part II with statistical techniques Part III is devoted to the method of least squares which can be regarded as both a statistical and numerical method The handbook shows clearly how each calculation is performed Each technique is illustrated by at least one example and there are worked examples and exercises throughout the volume

Statistics and Numerical Methods Dr. Manish Goyal,2010

Computer Based Numerical & Statistical Techniques Goyal,2005

Numerical Recipes in FORTRAN 77: Volume 1, Volume 1 of Fortran Numerical Recipes William H. Press,Saul A. Teukolsky,Brian P. Flannery,William T. Vetterling,1992-09-25 As with Numerical Recipes in C the FORTRAN

edition has been greatly revised to make this edition the most up to date handbook for those working with FORTRAN

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Table of Contents Numerical Methods Of Statistics

1. Understanding the eBook Numerical Methods Of Statistics
 - The Rise of Digital Reading Numerical Methods Of Statistics
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Methods Of Statistics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Methods Of Statistics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Methods Of Statistics
 - Personalized Recommendations

- Numerical Methods Of Statistics User Reviews and Ratings
- Numerical Methods Of Statistics and Bestseller Lists
- 5. Accessing Numerical Methods Of Statistics Free and Paid eBooks
 - Numerical Methods Of Statistics Public Domain eBooks
 - Numerical Methods Of Statistics eBook Subscription Services
 - Numerical Methods Of Statistics Budget-Friendly Options
- 6. Navigating Numerical Methods Of Statistics eBook Formats
 - ePub, PDF, MOBI, and More
 - Numerical Methods Of Statistics Compatibility with Devices
 - Numerical Methods Of Statistics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Methods Of Statistics
 - Highlighting and Note-Taking Numerical Methods Of Statistics
 - Interactive Elements Numerical Methods Of Statistics
- 8. Staying Engaged with Numerical Methods Of Statistics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Methods Of Statistics
- 9. Balancing eBooks and Physical Books Numerical Methods Of Statistics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Methods Of Statistics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Numerical Methods Of Statistics
 - Setting Reading Goals Numerical Methods Of Statistics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Numerical Methods Of Statistics
 - Fact-Checking eBook Content of Numerical Methods Of Statistics

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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