

NUMERICAL METHODS

C / KAPPA EXAM 12 / 11/14 / 2022 / 20.00%

LEAST SQUARES REGRESSION

Goal: Minimize the sum of the squares of the residual (errors)

Residual = $y_i - \hat{y}_i$

Sum of Squares Error (SSE): $S_e = \sum_{i=1}^n (y_i - \hat{y}_i)^2$

Model: $\hat{y}_i = a_0 + a_1 x_i$

Normal Equations:

$$\begin{aligned} S_e &= \sum_{i=1}^n (y_i - a_0 - a_1 x_i)^2 \\ \frac{\partial S_e}{\partial a_0} &= -2 \sum_{i=1}^n (y_i - a_0 - a_1 x_i) = 0 \\ \frac{\partial S_e}{\partial a_1} &= -2 \sum_{i=1}^n x_i (y_i - a_0 - a_1 x_i) = 0 \end{aligned}$$

Matrix form:

$$\begin{bmatrix} n & \sum x_i \\ \sum x_i & \sum x_i^2 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \end{bmatrix}$$

STANDARD ERROR:

$$S_{y|x} = \sqrt{\frac{S_e}{n-2}}$$

STANDARD DEVIATION:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-1}}$$

$$S_x = \sqrt{\frac{\sum x_i^2}{n-1}}$$

INTERPOLATION

Use a polynomial $P(x)$

Degree	Nodes	Polynomial
Linear	2 nodes	$P_1(x) = a_0 + a_1 x$
Quadratic	3 nodes	$P_2(x) = a_0 + a_1 x + a_2 x^2$
Cubic	4 nodes	$P_3(x) = a_0 + a_1 x + a_2 x^2 + a_3 x^3$

Order: $n=1, 2, 3, 4, \dots$

Turns: $n=1 \rightarrow 0, n=2 \rightarrow 1, n=3 \rightarrow 2, n=4 \rightarrow 3, \dots$

Spines: $m = \frac{f(x_{i+1}) - f(x_i)}{x_{i+1} - x_i}$

POLYNOMIAL QUADRATIC REGRESSION

Goal: Minimize the sum of the squares of the residual (errors)

Model: $\hat{y}_i = a_0 + a_1 x_i + a_2 x_i^2$

Normal Equations:

$$\begin{aligned} \frac{\partial S_e}{\partial a_0} &= -2 \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0 \\ \frac{\partial S_e}{\partial a_1} &= -2 \sum_{i=1}^n x_i (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0 \\ \frac{\partial S_e}{\partial a_2} &= -2 \sum_{i=1}^n x_i^2 (y_i - a_0 - a_1 x_i - a_2 x_i^2) = 0 \end{aligned}$$

Matrix form:

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

ODE'S

Euler's Method

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

Backward: $y_i = y_{i+1} - f(x_{i+1}, y_{i+1}) \Delta x$

Runge-Kutta's Method

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

Backward: $y_i = y_{i+1} - f(x_{i+1}, y_{i+1}) \Delta x$

Taylor Series

$y(x) = y_0 + y'_0 x + \frac{y''_0}{2!} x^2 + \dots$

Classic 4th Order Runge-Kutta

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

$k_1 = f(x_i, y_i)$

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

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

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

PDE'S

Finite Difference Method

Central Difference:

$$\frac{\partial^2 u}{\partial x^2} \approx \frac{u_{i+1} - 2u_i + u_{i-1}}{\Delta x^2}$$

Forward Difference:

$$\frac{\partial u}{\partial x} \approx \frac{u_i - u_{i-1}}{\Delta x}$$

Backward Difference:

$$\frac{\partial u}{\partial x} \approx \frac{u_{i+1} - u_i}{\Delta x}$$

EIGEN VALUES

λ = Eigen Value

Example:

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

Characteristic Equation:

$$\det(A - \lambda I) = 0$$

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

Single 2x2

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

$\det(A - \lambda I) = 0$

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

$\lambda = \frac{(a+d) \pm \sqrt{(a+d)^2 - 4(ad-bc)}}{2}$

2x2 Matrix

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

$(a - \lambda)x_1 + bx_2 = 0$

$cx_1 + (d - \lambda)x_2 = 0$

$\lambda_1 = a, \lambda_2 = d$

[A] MATRIX

Central Difference:

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

Forward Difference:

$$u_i - u_{i-1} = \Delta x \frac{\partial u}{\partial x}$$

Backward Difference:

$$u_{i+1} - u_i = \Delta x \frac{\partial u}{\partial x}$$

HEAT CONDUCTION

Central Difference:

$$\frac{\partial^2 u}{\partial x^2} \approx \frac{u_{i+1} - 2u_i + u_{i-1}}{\Delta x^2}$$

RIGHT BOUNDARY B.C.

$\frac{\partial u}{\partial x} = 0$

Central Difference:

$$\frac{u_i - u_{i-1}}{\Delta x} = 0$$

$u_i = u_{i-1}$

LEFT BOUNDARY B.C.

$\frac{\partial u}{\partial x} = 0$

Central Difference:

$$\frac{u_{i+1} - u_i}{\Delta x} = 0$$

$u_{i+1} = u_i$

FINITE DIFFERENCE

Central Finite-Difference Scheme:

First:

$$f(x) = \frac{f(x_{i+1}) - f(x_{i-1}))}{2\Delta x}$$

Second:

$$f(x) = \frac{f(x_{i+1}) - 2f(x_i) + f(x_{i-1}))}{2\Delta x^2}$$

Numerical Methods And Analysis

Anthony Ralston, Philip Rabinowitz



Numerical Methods And Analysis:

Analysis of Numerical Methods Eugene Isaacson, Herbert Bishop Keller, 2012-04-26 This excellent text for advanced undergraduate and graduate students covers norms numerical solutions of linear systems and matrix factoring eigenvalues and eigenvectors polynomial approximation and more Many examples and problems 1966 edition Numerical Methods and Analysis James L. Buchanan, Peter R. Turner, 1992 Intended for a first course in numerical methods or numerical analysis taken by junior and senior level students this book assumes a knowledge of calculus linear algebra and differential equations It covers numerical approximation interpolation graphics and parallel computing The interplay between hardware and software considerations in numerical algorithm design recurs throughout A portion of the programs in the book are written in Turbo Pascal the remainder are pseudocode or generalized algorithms Programs used in the text will be available on a disk for instructors to use and copy **An Introduction to Numerical Methods and Analysis** James F. Epperson, 2021-07-21 The new edition of the popular introductory textbook on numerical approximation methods and mathematical analysis with a unique emphasis on real world application An Introduction to Numerical Methods and Analysis helps students gain a solid understanding of a wide range of numerical approximation methods for solving problems of mathematical analysis Designed for entry level courses on the subject this popular textbook maximizes teaching flexibility by first covering basic topics before gradually moving to more advanced material in each chapter and section Throughout the text students are provided clear and accessible guidance on a wide range of numerical methods and analysis techniques including root finding numerical integration interpolation solution of systems of equations and many others This fully revised third edition contains new sections on higher order difference methods the bisection and inertia method for computing eigenvalues of a symmetric matrix a completely re written section on different methods for Poisson equations and spectral methods for higher dimensional problems New problem sets ranging in difficulty from simple computations to challenging derivations and proofs are complemented by computer programming exercises illustrative examples and sample code This acclaimed textbook Explains how to both construct and evaluate approximations for accuracy and performance Covers both elementary concepts and tools and higher level methods and solutions Features new and updated material reflecting new trends and applications in the field Contains an introduction to key concepts a calculus review an updated primer on computer arithmetic a brief history of scientific computing a survey of computer languages and software and a revised literature review Includes an appendix of proofs of selected theorems and a companion website with additional exercises application models and supplemental resources An Introduction to Numerical Methods and Analysis Third Edition is the perfect textbook for upper level undergraduate students in mathematics science and engineering courses as well as for courses in the social sciences medicine and business with numerical methods and analysis components Numerical Methods in Software and Analysis John R. Rice, 2014-05-19 Numerical Methods Software and Analysis Second Edition introduces science and engineering

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Theory and Applications of Numerical Analysis G. M. Phillips, Peter J. Taylor, 1996-07-05 Theory and Applications of Numerical Analysis is a self contained Second Edition providing an introductory account of the main topics in numerical analysis The book emphasizes both the theorems which show the underlying rigorous mathematics and the algorithms which define precisely how to program the numerical methods Both theoretical and practical examples are included a unique blend of theory and applications two brand new chapters on eigenvalues and splines inclusion of formal algorithms numerous fully worked examples a large number of problems many with solutions

Numerical Methods and Analysis of Multiscale Problems Alexandre L. Madureira, 2017-02-15 This book is about numerical modeling of multiscale problems and introduces several asymptotic analysis and numerical techniques which are necessary for a proper approximation of equations that depend on different physical scales Aimed at advanced undergraduate and graduate students in mathematics engineering and physics or researchers seeking a no nonsense approach it discusses examples in their simplest possible settings removing mathematical hurdles that might hinder a clear understanding of the methods The problems considered are given by singular perturbed reaction advection diffusion equations in one and two dimensional domains partial differential equations in domains with rough boundaries and equations with oscillatory coefficients This work shows how asymptotic analysis can be used to develop and analyze models and numerical methods that are robust and work well for a wide range of parameters

Introduction to Numerical Analysis Devi Prasad, 2003 An Introduction to Numerical Analysis is designed for a first course on numerical analysis for students of Science and Engineering including Computer Science The book contains derivation of algorithms for solving engineering and science problems and also deals with error analysis It has numerical examples suitable for solving through computers The special features are comparative efficiency and accuracy of various algorithms due to finite digit arithmetic used by the computers

Numerical Methods for Ordinary Differential Equations J. C.

Butcher, 2008-04-15 In recent years the study of numerical methods for solving ordinary differential equations has seen many new developments This second edition of the author's pioneering text is fully revised and updated to acknowledge many of these developments It includes a complete treatment of linear multistep methods whilst maintaining its unique and comprehensive emphasis on Runge Kutta methods and general linear methods Although the specialist topics are taken to an advanced level the entry point to the volume as a whole is not especially demanding Early chapters provide a wide ranging introduction to differential equations and difference equations together with a survey of numerical differential equation methods based on the fundamental Euler method with more sophisticated methods presented as generalizations of Euler Features of the book include Introductory work on differential and difference equations A comprehensive introduction to the theory and practice of solving ordinary differential equations numerically A detailed analysis of Runge Kutta methods and of linear multistep methods A complete study of general linear methods from both theoretical and practical points of view The latest results on practical general linear methods and their implementation A balance between informal discussion and rigorous mathematical style Examples and exercises integrated into each chapter enhancing the suitability of the book as a course text or a self study treatise Written in a lucid style by one of the worlds leading authorities on numerical methods for ordinary differential equations and drawing upon his vast experience this new edition provides an accessible and self contained introduction ideal for researchers and students following courses on numerical methods engineering and other sciences

Numerical Analysis M. Schatzman, 2002 Numerical analysis explains why numerical computations work or fail This book is divided into four parts Part I starts with a guided tour of floating number systems and machine arithmetic The exponential and the logarithm are constructed from scratch to present a new point of view on questions well known to the reader and the needed knowledge of linear algebra is summarized Part II starts with polynomial approximation polynomial interpolation mean square approximation splines It then deals with Fourier series providing the trigonometric version of least square approximations and one of the most important numerical algorithms the fast Fourier transform Any scientific computation program spends most of its time solving linear systems or approximating the solution of linear systems even when trying to solve non linear systems Part III is therefore about numerical linear algebra while Part IV treats a selection of non linear or complex problems resolution of linear equations and systems ordinary differential equations single step and multi step schemes and an introduction to partial differential equations The book has been written having in mind the advanced undergraduate students in mathematics who are interested in the spice and spirit of numerical analysis The book does not assume previous knowledge of numerical methods It will also be useful to scientists and engineers wishing to learn what mathematics has to say about the reason why their numerical methods work or fail

Numerical Analysis or Numerical Method in Symmetry Clemente Cesarano, 2020-02-21 This Special Issue focuses mainly on techniques and the relative formalism typical of numerical methods and therefore of numerical analysis more generally These fields of study of

mathematics represent an important field of investigation both in the field of applied mathematics and even more exquisitely in the pure research of the theory of approximation and the study of polynomial relations as well as in the analysis of the solutions of the differential equations both ordinary and partial derivatives Therefore a substantial part of research on the topic of numerical analysis cannot exclude the fundamental role played by approximation theory and some of the tools used to develop this research In this Special Issue we want to draw attention to the mathematical methods used in numerical analysis such as special functions orthogonal polynomials and their theoretical tools such as Lie algebra to study the concepts and properties of some special and advanced methods which are useful in the description of solutions of linear and nonlinear differential equations A further field of investigation is dedicated to the theory and related properties of fractional calculus with its adequate application to numerical methods

Numerical Analysis Brian Sutton, 2019-04-18 This textbook develops the fundamental skills of numerical analysis designing numerical methods implementing them in computer code and analyzing their accuracy and efficiency A number of mathematical problems interpolation integration linear systems zero finding and differential equations are considered and some of the most important methods for their solution are demonstrated and analyzed Notable features of this book include the development of Chebyshev methods alongside more classical ones a dual emphasis on theory and experimentation the use of linear algebra to solve problems from analysis which enables students to gain a greater appreciation for both subjects and many examples and exercises Numerical Analysis Theory and Experiments is designed to be the primary text for a junior or senior level undergraduate course in numerical analysis for mathematics majors Scientists and engineers interested in numerical methods particularly those seeking an accessible introduction to Chebyshev methods will also be interested in this book

Solutions Manual to accompany An Introduction to Numerical Methods and Analysis James F. Epperson, 2013-10-21 A solutions manual to accompany An Introduction to Numerical Methods and Analysis Second Edition An Introduction to Numerical Methods and Analysis Second Edition reflects the latest trends in the field includes new material and revised exercises and offers a unique emphasis on applications The author clearly explains how to both construct and evaluate approximations for accuracy and performance which are key skills in a variety of fields A wide range of higher level methods and solutions including new topics such as the roots of polynomials spectral collocation finite element ideas and Clenshaw Curtis quadrature are presented from an introductory perspective and the Second Edition also features Chapters and sections that begin with basic elementary material followed by gradual coverage of more advanced material Exercises ranging from simple hand computations to challenging derivations and minor proofs to programming exercises Widespread exposure and utilization of MATLAB An appendix that contains proofs of various theorems and other material

The Birth of Numerical Analysis Adhemar Bultheel, Ronald Cools, 2010 The 1947 paper by John von Neumann and Herman Goldstine OC Numerical Inverting of Matrices of High Order OCO Bulletin of the AMS Nov 1947 is considered as the birth certificate of numerical analysis Since

its publication the evolution of this domain has been enormous This book is a unique collection of contributions by researchers who have lived through this evolution testifying about their personal experiences and sketching the evolution of their respective subdomains since the early years Sample Chapter s Chapter 1 Some pioneers of extrapolation methods 323 KB Contents Some Pioneers of Extrapolation Methods C Brezinski Very Basic Multidimensional Extrapolation Quadrature J N Lyness Numerical Methods for Ordinary Differential Equations Early Days J C Butcher Interview with Herbert Bishop Keller H M Osinga A Personal Perspective on the History of the Numerical Analysis of Fredholm Integral Equations of the Second Kind K Atkinson Memoires on Building on General Purpose Numerical Algorithms Library B Ford Recent Trends in High Performance Computing J J Dongarra et al Nonnegativity Constraints in Numerical Analysis D H Chen On Nonlinear Optimization Since 1959 M J D Powell The History and Development of Numerical Analysis in Scotland A Personal Perspective G Alistair Watson Remembering Philip Rabinowitz P J Davis My Early Experiences with Scientific Computation P J Davis Applications of Chebyshev Polynomials From Theoretical Kinematics to Practical Computations R Piessens Readership Mathematicians in numerical analysis and mathematicians who are interested in the history of mathematics Numerical Analysis with Applications in Mechanics and Engineering Petre Teodorescu,Nicolae-Doru Stanescu,Nicolae Pandrea,2013-06-04 NUMERICAL ANALYSIS WITH APPLICATIONS IN MECHANICS AND ENGINEERING A much needed guide on how to use numerical methods to solve practical engineering problems Bridging the gap between mathematics and engineering Numerical Analysis with Applications in Mechanics and Engineering arms readers with powerful tools for solving real world problems in mechanics physics and civil and mechanical engineering Unlike most books on numerical analysis this outstanding work links theory and application explains the mathematics in simple engineering terms and clearly demonstrates how to use numerical methods to obtain solutions and interpret results Each chapter is devoted to a unique analytical methodology including a detailed theoretical presentation and emphasis on practical computation Ample numerical examples and applications round out the discussion illustrating how to work out specific problems of mechanics physics or engineering Readers will learn the core purpose of each technique develop hands on problem solving skills and get a complete picture of the studied phenomenon Coverage includes How to deal with errors in numerical analysis Approaches for solving problems in linear and nonlinear systems Methods of interpolation and approximation of functions Formulas and calculations for numerical differentiation and integration Integration of ordinary and partial differential equations Optimization methods and solutions for programming problems Numerical Analysis with Applications in Mechanics and Engineering is a one of a kind guide for engineers using mathematical models and methods as well as for physicists and mathematicians interested in engineering problems **Numerical Methods for Ordinary Differential Equations** John Charles Butcher,2016 *Numerical Analysis for Engineers* Bilal Ayyub,Richard H. McCuen,2015-09-18 Numerical Analysis for Engineers Methods and Applications demonstrates the power of numerical methods in the context of solving complex

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Course in Numerical Analysis Anthony Ralston, Philip Rabinowitz, 2001-01-01 Outstanding text oriented toward computer solutions stresses errors in methods and computational efficiency Problems some strictly mathematical others requiring a computer appear at the end of each chapter

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Table of Contents Numerical Methods And Analysis

1. Understanding the eBook Numerical Methods And Analysis
 - The Rise of Digital Reading Numerical Methods And Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Methods And Analysis
 - 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 And Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Methods And Analysis
 - Personalized Recommendations
 - Numerical Methods And Analysis User Reviews and Ratings
 - Numerical Methods And Analysis and Bestseller Lists
5. Accessing Numerical Methods And Analysis Free and Paid eBooks
 - Numerical Methods And Analysis Public Domain eBooks
 - Numerical Methods And Analysis eBook Subscription Services
 - Numerical Methods And Analysis Budget-Friendly Options

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