

NUMERICAL METHODS

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

LEAST SQUARES REGRESSION



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

STANDARD ERROR:

$S_{y_1} = \sqrt{\frac{\sum y_i^2}{n-2}}$ $S_{y_2} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$

STANDARD DEVIATION:

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

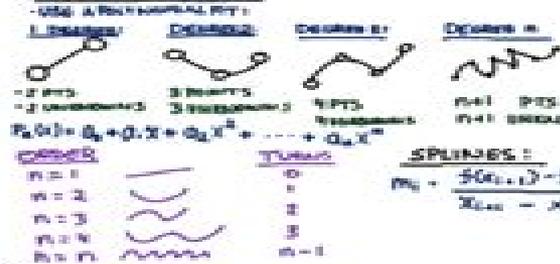
POLYNOMIAL QUADRATIC REGRESSION:



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

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

INTERPOLATION



ODE'S

Euler's Method:
 $y_{n+1} = y_n + f(x_n, y_n) \Delta x$
Runge-Kutta Method:
 $y' = f(x, y)$
 $y_{n+1} = y_n + \frac{\Delta x}{2} [f(x_n, y_n) + f(x_n + \Delta x, y_n + \Delta x f(x_n, y_n))]$

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:

$y_{n+1} = y_n + \frac{\Delta x}{4} (k_1 + 2k_2 + 2k_3 + k_4)$
 $k_1 = f(x_n, y_n)$
 $k_2 = f(x_n + \frac{1}{2}\Delta x, y_n + \frac{1}{2}\Delta x k_1)$
 $k_3 = f(x_n + \frac{1}{2}\Delta x, y_n + \Delta x k_2)$
 $k_4 = f(x_n + \Delta x, y_n + \Delta x k_3)$

PDE'S

FINITE DIFFERENCE METHOD:



EIGEN VALUES

$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$
 $\det(A - \lambda I) = 0$
 $(a-\lambda)(d-\lambda) - bc = 0$
 $\lambda^2 - (a+d)\lambda + (ad-bc) = 0$

Single 2x2:
 $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$
 $\det(A - \lambda I) = 0$
 $\lambda = \frac{a+d \pm \sqrt{(a-d)^2 + 4bc}}{2}$

2x2 matrix with zero:
 $\begin{bmatrix} a & b \\ c & 0 \end{bmatrix}$
 $\det(A - \lambda I) = 0$
 $(a-\lambda)(-\lambda) - bc = 0$
 $\lambda^2 - a\lambda - bc = 0$

$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$
 $-bx + dy = 0 \implies y = \frac{b}{d}x$
 $(x, -\lambda y) \implies x, y = 0$

RIGHT BOUNDARY B.C. (T=0, T=100):
 $T_x(0, y) = 0 \implies u_{i,j} - u_{i-1,j} = 0$
 $T(0, y) = 100 \implies u_{0,j} = 100$

TOP BOUNDARY B.C. (T=0, T=100):
 $T_x(x, 0) = 0 \implies u_{i,0} - u_{i,1} = 0$
 $T(x, 0) = 100 \implies u_{i,0} = 100$

LEFT BOUNDARY B.C. (T=0, T=100):
 $T_x(x, 1) = 0 \implies u_{i,j} - u_{i,j-1} = 0$
 $T(x, 1) = 100 \implies u_{i,1} = 100$

BOTTOM BOUNDARY B.C. (T=0, T=100):
 $T_x(x, 1) = 0 \implies u_{i,j} - u_{i,j-1} = 0$
 $T(x, 1) = 100 \implies u_{i,1} = 100$

5th ROW OF A MATRIX:
 $[0 \ -1 \ 0 \ -1 \ 0 \ -1 \ 0 \ -1 \ 0] \begin{bmatrix} u_1 \\ u_2 \\ u_3 \\ u_4 \\ u_5 \\ u_6 \\ u_7 \\ u_8 \\ u_9 \end{bmatrix} = 0$

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

FINITE DIFFERENCE:
CENTERED FINITE-DIFFERENCE DERIVATIVE:
 $f'(x) = \frac{f(x+\Delta x) - f(x-\Delta x)}{2\Delta x}$
 $f''(x) = \frac{f(x+\Delta x) - 2f(x) + f(x-\Delta x))}{\Delta x^2}$

Numerical Methods In Eng

R Bogdan



Numerical Methods In Eng:

Numerical Methods for Engineers D. Vaughan Griffiths, I.M. Smith, 2006-06-22 Although pseudocodes Mathematica and MATLAB illustrate how algorithms work designers of engineering systems write the vast majority of large computer programs in the Fortran language Using Fortran 95 to solve a range of practical engineering problems **Numerical Methods for Engineers** Second Edition provides an introduction to numerical methods

Numerical Methods In Engineering & Science Carl .E. Pearson, 1986-05-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education

Applied Numerical Methods for Engineers Terrence J. Akai, 1994 This book is also available through the Introductory Engineering Custom Publishing System If you are interested in creating a course pack that includes chapters from this book you can get further information by calling 212 850 6272 or sending email inquiries to engineerjwiley.com Designed to cover scores of numerical techniques including statistical methods encountered by engineers and technologists Pedagogically sound it uses a conversational style and contains highlighted key words and end of chapter summaries along with method summary pitfalls and recommendations for choice of techniques 80% of the worked examples and case studies are based on applied problems A complete chapter on design features problems relevant to using this tool in engineering practice Offers over 40 pseudocodes for implementing methods discussed Publisher

Numerical Methods For Scientific And Engineering Computation M.K. Jain, 2003

Innovative Numerical Methods in Engineering R.P. Shaw, 1986-04

Numerical Methods for Nonlinear Engineering Models John R. Hauser, 2009-03-24 There are many books on the use of numerical methods for solving engineering problems and for modeling of engineering artifacts In addition there are many styles of such presentations ranging from books with a major emphasis on theory to books with an emphasis on applications The purpose of this book is hopefully to present a somewhat different approach to the use of numerical methods for engineering applications Engineering models are in general nonlinear models where the response of some appropriate engineering variable depends in a nonlinear manner on the plication of some independent parameter It is certainly true that for many types of engineering models it is sufficient to approximate the real physical world by some linear model However when engineering environments are pushed to treme conditions nonlinear effects are always encountered It is also such treme conditions that are of major importance in determining the reliability or failure limits of engineering systems Hence it is essential than engineers have a toolbox of modeling techniques that can be used to model nonlinear engineering systems Such a set of basic numerical methods is the topic of this book For each subject area treated nonlinear models are incorporated into the discussion from the very beginning and linear models are simply treated as special cases of more general nonlinear models This is a basic and fundamental difference in this book from most books on numerical methods

Numerical Methods for Mathematics, Science, and Engineering John H. Mathews, 1992 A modern computer oriented approach to numerical analysis that shows how the mathematics of calculus and

linear algebra are implemented in computer algorithms Computer output is displayed in tables and used to develop topics of computer accuracy pitfalls in computational methods and error estimation

Fundamentals of Engineering Numerical Analysis Parviz Moin,2010-08-30 In this work Parviz Moin introduces numerical methods and shows how to develop analyse and use them A thorough and practical text it is intended as a first course in numerical analysis

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 in Engineering Pramote Dechaumphai,N. Wansophark,2011 NUMERICAL METHODS IN ENGINEERING Theories with MATLAB Fortran C and Pascal Programs presents a clear easy to understand manner on introduction and the use of numerical methods The book contains nine chapters with materials that are essential for studying the subject The book starts from introducing the numerical methods and describing their importance for analyzing engineering problems The methods for finding roots of linear and nonlinear equations are presented with examples Some of these methods are very effective and implemented in commercial software The methods for interpolation extrapolation and least squares regression are explained Numerical integration and differentiation methods are presented to demonstrate their benefits for solving complicate functions Several methods for analyzing both the ordinary and partial differential equations are then presented These methods are simple and work well for problems that have regular geometry For problems with complex geometry the finite element method is preferred The finite element method for analyzing one and two dimensional problems is explained in the last chapter Numerous examples are

illustrated to increase understanding of these methods for analyzing different types of problems Computer programs corresponding to the computational procedures of these methods are provided The programs are written in MATLAB Fortran C and Pascal so that readers can use the preferred language for their study These computer programs can also be modified to use in other courses and research work

Computational Engineering - Introduction to Numerical Methods Michael Schäfer, 2006-02-20 Introduction Modelling of Continuum Mechanical Problems Discretization of Problem Domain Finite Volume Methods Finite Element Methods Time Discretization Solution of Algebraic Systems of Equations Properties of Numerical Methods Finite Element Methods in Structural Mechanics Finite Volume Methods for Incompressible Flows Acceleration of Computations List of Symbols References Index

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Numerical Methods for Engineers and Scientists, Second Edition, Joe D. Hoffman, Steven Frankel, 2001-05-31 Emphasizing the finite difference approach for solving differential equations the second edition of *Numerical Methods for Engineers and Scientists* presents a methodology for systematically constructing individual computer programs Providing easy access to accurate solutions to complex scientific and engineering problems each chapter begins with objectives a discussion of a representative application and an outline of special features summing up with a list of tasks students should be able to complete after reading the chapter perfect for use as a study guide or for review The AIAA Journal calls the book a good solid instructional text on the basic tools of numerical analysis

Computational Methods in Engineering S. P. Venkateshan, Prasanna Swaminathan, 2023-05-31 The book is designed to serve as a textbook for courses offered to graduate and upper undergraduate students enrolled in mechanical engineering The book attempts to make students with mathematical backgrounds comfortable with numerical methods The book also serves as a handy reference for practicing engineers who are interested in applications The book is written in an easy to understand manner with the essence of each numerical method clearly stated This makes it easy for professional engineers students and early career researchers to follow the material presented in the book The structure of the book has been modeled accordingly It is divided into four modules i solution of a system of equations and eigenvalues which includes linear equations determining eigenvalues and solution of nonlinear equations ii function approximations interpolation data fit numerical differentiation and

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Numerical Methods: For Engineering and Science Saumyen Guha, Rajesh Srivastava (Civil engineer), 2010-12 Designed as a textbook for undergraduate and postgraduate students of engineering and science Numerical Methods For Engineering and Science is an attempt to explain the concepts and principles in such a way that the methods can be applied to any discipline

Numerical Methods in Engineering & Science Graham de Vahl Davis, 2012-12-06 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education It is an outgrowth of a course of lectures and tutorials problem solving sessions which the author has given for a number of years at the University of New South Wales and elsewhere The course is normally taught at the rate of 11 hours per week throughout an academic year 28 weeks It has occasionally been given at double this rate over half the year but it was found that students had insufficient time to absorb the material and experiment with the methods The material presented here is rather more than has been taught in anyone year although all of it has been taught at some time The book is concerned with the application of numerical methods to the solution of equations algebraic transcendental and differential which will be encountered by students during their training and their careers The theoretical foundation for the methods is not rigorously covered Engineers and applied scientists but not of course mathematicians are more concerned with using methods than with proving that they can be used However they must be satisfied that the methods are fit to be used and it is hoped that students will perform sufficient numerical experiments to convince themselves of this without the need for more than the minimum of theory which is presented here

Numerical Methods for Engineering Karl F. Warnick, 2020-09-26 The revised and updated second edition of this textbook teaches students to create computer codes used to engineer antennas microwave circuits and other critical technologies for wireless communications and other applications of electromagnetic fields and waves Worked code examples are provided for MATLAB technical computing software

Numerical Methods for Engineers Steven C. Chapra, Raymond P. Canale, 2002 The Fourth Edition of Numerical Methods for Engineers continues the tradition of excellence it established as the winner of the ASEE Meriam Wiley award for Best Textbook Instructors love it because it is a comprehensive text that is easy to teach from Students love it because it is written for them with great pedagogy and clear explanations and examples throughout This edition features an even broader array of applications including all engineering disciplines The revision retains the successful pedagogy of the prior editions Chapra and Canale's unique approach opens each part of the text with sections called Motivation Mathematical Background

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Numerical Methods in Engineering & Science Graham de Vahl Davis, 2012-03-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education It is an outgrowth of a course of lectures and tutorials problem solving sessions which the author has given for a number of years at the University of New South Wales and elsewhere The course is normally taught at the rate of 11 hours per week throughout an academic year 28 weeks It has occasionally been given at double this rate over half the year but it was found that students had insufficient time to absorb the material and experiment with the methods The material presented here is rather more than has been taught in anyone year although all of it has been taught at some time The book is concerned with the application of numerical methods to the solution of equations algebraic transcendental and differential which will be encountered by students during their training and their careers The theoretical foundation for the methods is not rigorously covered Engineers and applied scientists but not of course mathematicians are more concerned with using methods than with proving that they can be used However they must be satisfied that the methods are fit to be used and it is hoped that students will perform sufficient numerical experiments to convince themselves of this without the need for more than the minimum of theory which is presented here

Numerical Methods for Engineers, Second Edition D. Vaughan Griffiths, I.M. Smith, 1991-03-31 Numerical Methods for Engineers A Programming Approach is devoted to solving engineering problems using numerical methods It covers all areas of introductory numerical methods and emphasizes techniques of programming in FORTRAN 77 and developing subprograms using FORTRAN functions and subroutines In this way the book serves as an introduction to using powerful mathematical subroutine libraries Over 40 main programs are provided in the text and all subroutines are listed in the Appendix Each main program is presented with a sample data set and output and all FORTRAN programs and

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