

NUMERICAL METHODS

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

LEAST SQUARES REGRESSION

Goal: Minimize the sum of the square of the residual (error).

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

Sum of Squares = $\sum (y_i - \hat{y}_i)^2$

Minimize: $\sum (y_i - \hat{y}_i)^2$

$$S_0 = \sum_{i=1}^n y_i^2 - \frac{(\sum y_i)^2}{n}$$

POLYNOMIAL QUADRATIC REGRESSION



$$S_0 = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$$

Take derivative of S_0 to find minimum

$$\frac{\partial S_0}{\partial a_0} = -2 \left(\sum y_i - \sum a_0 - a_1 \sum x_i - a_2 \sum x_i^2 \right) = 0$$

$$\frac{\partial S_0}{\partial a_1} = -2 \left(\sum x_i y_i - \sum a_0 \sum x_i - a_1 \sum x_i^2 - a_2 \sum x_i^3 \right) = 0$$

$$\frac{\partial S_0}{\partial a_2} = -2 \left(\sum x_i^2 y_i - \sum a_0 \sum x_i^2 - a_1 \sum x_i^3 - a_2 \sum x_i^4 \right) = 0$$

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

$$[C] \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = [D] \rightarrow [C]^{-1} [D] = [E]$$

$$S_0 = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$$

data points

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

Adjusted coefficient

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STANDARD ERROR

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

STANDARD DEVIATION

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

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INTERPOLATION

Use a polynomial fit

Linear

Quadratic

Cubic

Quartic

Quintic

Sixth

Seventh

Eighth

Ninth

Tenth

Eleventh

Twelfth

Thirteenth

Fourteenth

Fifteenth

Sixteenth

Seventeenth

Eighteenth

Nineteenth

Twentieth

Twenty-first

Twenty-second

Twenty-third

Twenty-fourth

Twenty-fifth

Twenty-sixth

Twenty-seventh

Twenty-eighth

Twenty-ninth

Thirtieth

Thirty-first

Thirty-second

Thirty-third

Thirty-fourth

Thirty-fifth

Thirty-sixth

Thirty-seventh

Thirty-eighth

Thirty-ninth

Fortieth

Forty-first

Forty-second

Forty-third

Forty-fourth

Forty-fifth

Forty-sixth

Forty-seventh

Forty-eighth

Forty-ninth

Fiftieth

Fifty-first

Fifty-second

Fifty-third

Fifty-fourth

Fifty-fifth

Fifty-sixth

Fifty-seventh

ODE'S

Euler's method

Runge-Kutta

Adams-Bashforth

Adams-Moulton

Heun's method

Midpoint method

Classical RK4

Implicit RK4

Implicit RK45

Implicit RK63

Implicit RK74

Implicit RK85

Implicit RK96

Implicit RK107

Implicit RK118

Implicit RK129

Implicit RK140

Implicit RK151

Implicit RK162

Implicit RK173

Implicit RK184

Implicit RK195

Implicit RK206

Implicit RK217

Implicit RK228

Implicit RK239

Implicit RK250

Implicit RK261

Implicit RK272

Implicit RK283

Implicit RK294

Implicit RK305

Implicit RK316

Implicit RK327

Implicit RK338

Implicit RK349

Implicit RK360

Implicit RK371

Implicit RK382

Implicit RK393

Implicit RK404

Implicit RK415

Implicit RK426

Implicit RK437

Implicit RK448

Implicit RK459

ODE'S

Euler's method

Runge-Kutta

Adams-Bashforth

Adams-Moulton

Heun's method

Midpoint method

Classical RK4

Implicit RK4

Implicit RK45

Implicit RK63

Implicit RK74

Implicit RK85

Implicit RK96

Implicit RK107

Implicit RK118

Implicit RK129

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Implicit RK349

Implicit RK360

Implicit RK371

Implicit RK382

Implicit RK393

Implicit RK404

Implicit RK415

Implicit RK426

Implicit RK437

Numerical Methods Unit Guide

BM King



Numerical Methods Unit Guide:

Numerical Methods School Mathematics Project, John Higgo, 1992 The aim of 16 19 Mathematics has been to produce a course which while challenging is accessible and enjoyable to all students The course develops ability and confidence in mathematics and its applications together with an appreciation of how mathematical ideas help in the understanding of the world and society in which we live The unit guide contains an introduction to the unit stating the objectives advice on teaching and working through the unit commentaries on the discussion points and task sheets in the student's text

Guidelines for Vapor Cloud Explosion, Pressure Vessel Burst, BLEVE, and Flash Fire Hazards CCPS (Center for Chemical Process Safety), 2011-12-01 This guide provides an overview of methods for estimating the characteristics of vapor cloud explosions flash fires and boiling liquid expanding vapor explosions BLEVEs for practicing engineers It has been updated to include advanced modeling technology especially with respect to vapor cloud modeling and the use of computational fluid dynamics The text also reviews past experimental and theoretical research and methods to estimate consequences Heavily illustrated with photos charts tables and diagrams this manual is an essential tool for safety insurance regulatory and engineering students and professionals **Mathcad PLUS 5.0 User's Guide**, 1994 *A Student's Guide to*

Numerical Methods Ian H. Hutchinson, 2015-04-30 The plain language style worked examples and exercises in this book help students to understand the foundations of computational physics and engineering **Proceedings of the 2023 9th**

International Conference on Advances in Energy Resources and Environment Engineering (ICAEESE 2023) Abd El-Fatah Abomohra, Rongkui Su, Md Wasikur Rahman, Jiwei Wen, 2024-05-13 This is an open access book 2023 9th International Conference on Advances in Energy Resources and Environment Engineering ICAEESE 2023 will be held on December 29 31 2023 in Sanya China ICAEESE 2023 is to bring together innovative academics and industrial experts in the field of energy resources and environment engineering to a common forum The primary goal of the conference is to promote research and developmental activities in energy resources and environment engineering and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in energy resources and environment engineering and related areas *Numerical Methods and Optimization* Éric

Walter, 2014-07-22 Initial training in pure and applied sciences tends to present problem solving as the process of elaborating explicit closed form solutions from basic principles and then using these solutions in numerical applications This approach is only applicable to very limited classes of problems that are simple enough for such closed form solutions to exist Unfortunately most real life problems are too complex to be amenable to this type of treatment Numerical Methods a Consumer Guide presents methods for dealing with them Shifting the paradigm from formal calculus to numerical computation the text makes it possible for the reader to discover how to escape the dictatorship of those particular cases that

are simple enough to receive a closed form solution and thus gain the ability to solve complex real life problems understand the principles behind recognized algorithms used in state of the art numerical software learn the advantages and limitations of these algorithms to facilitate the choice of which pre existing bricks to assemble for solving a given problem and acquire methods that allow a critical assessment of numerical results Numerical Methods a Consumer Guide will be of interest to engineers and researchers who solve problems numerically with computers or supervise people doing so and to students of both engineering and applied mathematics

Staff Officers Field Manual Nuclear Weapons Employment United States. Department of the Army, 1963

Supplementary List of Publications of the National Bureau of Standards, 1960

Numerical Methods Gleb Beliakov, 2002 Produced for unit SCM319 Advanced mathematical methods offered by the Faculty of Science and Technology s School of Computing and Mathematics in Deakin University s Open Campus Program

Manual for the ORACLE Oak Ridge National Laboratory, 1953

Resources in Education, 1982

An Introduction to Numerical Methods and Analysis James F. Epperson, 2007-09-17 Praise for the First Edition outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises Zentrablatt Math carefully structured with many detailed worked examples The Mathematical Gazette an up to date and user friendly account Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from why they sometimes work or don t work and when to use one of the many techniques that are available Written in a style that emphasizes readability and usefulness for the numerical methods novice the book begins with basic elementary material and gradually builds up to more advanced topics A selection of concepts required for the study of computational mathematics is introduced and simple approximations using Taylor s Theorem are also treated in some depth The text includes exercises that run the gamut from simple hand computations to challenging derivations and minor proofs to programming exercises A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis

Mathcad 3.1 User's Guide, 1992 Allows user to work with formulas numbers text and graphs

Handbook of Numerical Methods for the Solution of Algebraic and Transcendental Equations V. L. Zaguskin, 2014-05-12

Handbook of Numerical Methods for the Solution of Algebraic and Transcendental Equations provides information pertinent to algebraic and transcendental equations This book indicates a well grounded plan for the solution of an approximate equation Organized into six chapters this book begins with an overview of the solution of various equations This text then outlines a non traditional theory of the solution of approximate equations Other chapters consider the approximate methods for the calculation of roots of algebraic equations This book discusses as well the methods for making roots more accurate

which are essential in the practical application of Berstoi s method The final chapter deals with the methods for the solution of simultaneous linear equations which are divided into direct methods and methods of successive approximation This book is a valuable resource for students engineers and research workers of institutes and industrial enterprises who are using mathematical methods in the solution of technical problems **Whitaker's Books in Print** ,1998 Teacher's Guide to Palmer Method Penmanship Austin Norman Palmer,1923 Chemical Engineers' Handbook Robert H. Perry,Cecil Hamilton Chilton,1973 Provides comprehensive coverage through articles graphs tables and formula of standard subjects and recent innovations relating to chemical engineering Bibliogs **Scientific and Technical Aerospace Reports** ,1975 *The Accountant* ,1904 Cassell's New Popular Educator ,1920

Whispering the Secrets of Language: An Mental Journey through **Numerical Methods Unit Guide**

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