

# NUMERICAL METHODS

C / KAPPA EXAM 12 / 11/14 / 1002 / 20.000

## LEAST SQUARES REGRESSION

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

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

$S_y = \sum_{i=1}^n y_i$ ,  $S_x = \sum_{i=1}^n x_i$ ,  $S_{xy} = \sum_{i=1}^n x_i y_i$

$S_y^2 = \sum_{i=1}^n y_i^2$ ,  $S_x^2 = \sum_{i=1}^n x_i^2$

$a_0 = \frac{S_y}{n}$ ,  $a_1 = \frac{S_{xy} - \frac{S_y S_x}{n}}{S_x^2 - \frac{S_x^2}{n}}$

POLYNOMIAL QUADRATIC REGRESSION:

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

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

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

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

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

$C(A) \rightarrow [A] \cdot [X] = [Y]$

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

data points, standard deviation

## STANDARD ERROR:

$$S_y = \sqrt{\frac{S_y^2}{n-2}}, S_x = \sqrt{\frac{S_x^2 - \frac{S_x^2}{n}}{n-2}}$$

## STANDARD DEVIATION:

$$S_y = \sqrt{\frac{S_y^2}{n-1}}, S_x = \sqrt{\frac{S_x^2 - \frac{S_x^2}{n}}{n-1}}$$

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

$$y = a_0 + a_1 x$$

## INTERPOLATION

USE A POLYNOMIAL FIT:

LINEAR:  $y = a_0 + a_1 x$

QUADRATIC:  $y = a_0 + a_1 x + a_2 x^2$

CUBIC:  $y = a_0 + a_1 x + a_2 x^2 + a_3 x^3$

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

TURNING:  $n = 0, 1, 2, 3, \dots$

SPINES:  $y = \frac{f(x_1) - f(x_2)}{x_1 - x_2}$

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# Numerical Methods In Engineering Applied Science

**Hemen Dutta**



## **Numerical Methods In Engineering Applied Science:**

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**Computing Methods in Applied Sciences and Engineering, 1977. Third International Symposium, December 5-9, 1977, IRIA LABORIA, Institut de Recherche d'Informatique et d'Automatique** R. Glowinski, J.L. Lions, 2006-11-15

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Computer Aided Analysis and Design of Machine Elements Rao V. Dukkipati, M. Ananda Rao, Rama B. Bhat, 2006 Beginning with the formulation of specific design problems this book goes on explains theories of failure It considers factors involved in optimization of design followed by a detailed description of static transient and dynamic analysis      Virtual Element Methods in Engineering Sciences Peter Wriggers, Fadi Aldakheel, Blaž Hudobivnik, 2023-10-28 This book provides a comprehensive treatment of the virtual element method VEM for engineering applications focusing on its application in solid mechanics Starting with a continuum mechanics background the book establishes the necessary foundation for understanding the subsequent chapters It then delves into the VEM s Ansatz functions and projection techniques both for solids and the Poisson equation which are fundamental to the method The book explores the virtual element formulation for elasticity problems offering insights into its advantages and capabilities Moving beyond elasticity the VEM is extended to problems in dynamics enabling the analysis of dynamic systems with accuracy and efficiency The book also covers the virtual element formulation for finite plasticity providing a framework for simulating the behavior of materials undergoing plastic

deformation Furthermore the VEM is applied to thermo mechanical problems where it allows for the investigation of coupled thermal and mechanical effects The book dedicates a significant portion to the virtual elements for fracture processes presenting techniques to model and analyze fractures in engineering structures It also addresses contact problems showcasing the VEM s effectiveness in dealing with contact phenomena The virtual element method s versatility is further demonstrated through its application in homogenization offering a means to understand the effective behavior of composite materials and heterogeneous structures Finally the book concludes with the virtual elements for beams and plates exploring their application in these specific structural elements Throughout the book the authors emphasize the advantages of the virtual element method over traditional finite element discretization schemes highlighting its accuracy flexibility and computational efficiency in various engineering contexts Mathematical Analysis for Engineering and Applied Sciences

Hemen Dutta,Ahmet Ocak Akdemir,2025-03-10 The book explores a range of mathematical topics essential for application in engineering and applied sciences It explores both the theoretical and practical aspects providing a comprehensive foundation for the development of robust theories applicable to engineering and applied sciences Mathematical Analysis for Engineering and Applied Sciences Foundational and Fundamental Aspects discusses the essential mathematical principles that underpin the fields of applied science and engineering This comprehensive book explores a blend of pure and applied mathematics demonstrating how mathematical tools and techniques can be utilized to create a wide range of models for practical applications in these disciplines It addresses the challenges of handling complex phenomena and provides algorithms methods and logical concepts that are invaluable for bioengineering cryptosystems surface modeling and various other engineering applications Individual researchers educators students and department libraries will find this book of interest

**Advances in Energy, Environment and Materials Science** Yeping Wang,Jianhua Zhao,2018-11-22 The International Conference on Energy Environment and Materials Science EEMS2015 was held in Guangzhou China from August 25 26 2015 EEMS2015 provided a platform for academic scientists researchers and scholars to exchange and share their experiences and research results within the fields of energy science energy technology environmental science environmental engineering motivation automation and electrical engineering material science and engineering the discovery or development of energy and environment and materials science **Advanced Dynamics** Rama B. Bhat,2001 Understanding the dynamic behavior of complex engineering structures mechanisms and components requires more than just a basic course in dynamics and it requires more than the ability to use computer programs to obtain numerical solutions to problems encountered in practice Advanced Dynamics extends its readers knowledge from the relatively simple concepts of basic dynamics to the more abstract ideas related to virtual displacements virtual work generalized coordinates and variation principles The authors presentation gradually introduces the abstract concepts often intimidating to students and while doing so furnish numerous exercises and worked examples that ease the difficulties often experienced when trying to apply the abstract concepts to

physical systems While their emphasis is on students understanding and intuition the authors not only address the methods and means of formulating mathematical models of physical systems they also discuss methods of solution including a full chapter on numerical techniques Designed for senior undergraduate and postgraduate students in mechanical engineering Advanced Dynamics also forms a trustworthy reference for engineers and other professionals working in areas such as robotics multibody spacecraft altitude control and the design of complex mechanical devices

*Computational Methods in Engineering* J.N. Reddy, 2024-03-19 Computational Methods in Engineering Finite Difference Finite Volume Finite Element and Dual Mesh Control Domain Methods provides readers with the information necessary to choose appropriate numerical methods to solve a variety of engineering problems Explaining common numerical methods in an accessible yet rigorous manner the book details the finite element method FEM finite volume method FVM and importantly a new numerical approach dual mesh control domain method DMCDM Numerical methods are crucial to everyday engineering The book begins by introducing the various methods and their applications with example problems from a range of engineering disciplines including heat transfer solid and structural mechanics and fluid mechanics It highlights the strengths of FEM with its systematic procedure and modular steps and then goes on to explain the uses of FVM It explains how DMCDM embodies useful parts of both FEM and FVM particularly in its use of the control domain method and how it can provide a comprehensive computational approach The final chapters look at ways to use different numerical methods primarily FEM and DMCDM to solve typical problems of bending of beams axisymmetric circular plates and other nonlinear problems This book is a useful guide to numerical methods for professionals and students in all areas of engineering and engineering mathematics

Computational Mathematics in Engineering and Applied Science W.E. Schiesser, 2014-07-22 Computational Mathematics in Engineering and Applied Science provides numerical algorithms and associated software for solving a spectrum of problems in ordinary differential equations ODEs differential algebraic equations DAEs and partial differential equations PDEs that occur in science and engineering It presents detailed examples each

Boundary Element Methods in Engineering Balkrishna S. Annigeri, Kadin Tseng, 2012-12-06 The Boundary Element Method BEM has become established as an effective tool for the solutions of problems in engineering science The salient features of the BEM have been well documented in the open literature and therefore will not be elaborated here The BEM research has progressed rapidly especially in the past decade and continues to evolve worldwide This Symposium was organized to provide an international forum for presentation of current research in BEM for linear and nonlinear problems in solid and fluid mechanics and related areas To this end papers on the following topics were included rotary wing aerodynamics unsteady aerodynamics design and optimization elasticity elasto dynamics and elastoplasticity fracture mechanics acoustics diffusion and wave motion thermal analysis mathematical aspects and boundary finite element coupled methods A special session was devoted to parallel vector supercomputing with emphasis on massive parallelism This Symposium was sponsored by United Technologies Research

Center UTRC NASA Langley Research Center and the International Association of Boundary Element Methods IABEM We thank the UTRC management for their permission to host this Symposium In particular we thank Dr Arthur S Kesten and Mr Robert E Olson for their encouragement and support We gratefully acknowledge the support of Dr E Carson Yates Jr of NASA Langley Prof Luigi Morino Dr Thomas A **Advances in Applied Mechanics** Daniel S. Balint, Stéphane P.A. Bordas, 2020-10-23 *Advances in Applied Mechanics* Volume 53 in this ongoing series highlights new advances in the field with this new volume presenting interesting chapters on Phase field modelling of fracture Advanced geometry representations and tools for microstructural and multiscale modelling The material point method the past and the future From Experimental Modeling of Shotcrete to Large Scale Numerical Simulations of Tunneling and Material point method after 25 years theory implementation applications Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Advances in Applied Mechanics* series *Domain Decomposition Methods in Science and Engineering* Alfio Quarteroni, 1994 This book contains the proceedings of the Sixth International Conference on Domain Decomposition held in June 1992 in Como Italy Much of the work in this field focuses on developing numerical methods for large algebraic systems **Fusion Energy Update**, 1982 Small Specimen Test Techniques Applied to Nuclear Reactor Vessel Thermal Annealing and Plant Life Extension W. R. Corwin, 1993 **Advanced Mathematics for Applied and Pure Sciences** CF Chan Man Fong, D De Kee, 1998-01-13 Covers applicable mathematics that should provide a text at the third year level and beyond appropriate for both students of engineering and the pure sciences The book is a product of close collaboration between two mathematicians and an engineer and it is of note that the engineer has been helpful in pinpointing the problems engineering students usually encounter in books written by mathematicians Instead of just listing techniques and a few examples or providing a list of theorems along with their proofs it explains why the techniques work The emphasis is on helping the student develop an understanding of mathematics and its applications **Handbook of Peridynamic Modeling** Florin Bobaru, John T. Foster, Philippe H Geubelle, Stewart A. Silling, 2016-11-03 This handbook covers the peridynamic modeling of failure and damage Peridynamics is a reformulation of continuum mechanics based on integration of interactions rather than spatial differentiation of displacements The book extends the classical theory of continuum mechanics to allow unguided modeling of crack propagation fracture in brittle quasi brittle and ductile materials autonomous transition from continuous damage fragmentation to fracture modeling of long range forces within a continuous body and multiscale coupling in a consistent mathematical framework *Splitting Methods in Communication, Imaging, Science, and Engineering* Roland Glowinski, Stanley J. Osher, Wotao Yin, 2017-01-05 This book is about computational methods based on operator splitting It consists of twenty three chapters written by recognized splitting method contributors and practitioners and covers a vast spectrum of topics and application areas including computational mechanics computational physics image processing wireless communication nonlinear optics and finance Therefore the book

presents very versatile aspects of splitting methods and their applications motivating the cross fertilization of ideas

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