

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

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

Polynomial Quadratic Regression:

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

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STANDARD ERROR:

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

STANDARD DEVIATION:

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

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

$$a_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$$

$$a_2 = \frac{\sum (x_i - \bar{x})^2 (y_i - \bar{y})}{\sum (x_i - \bar{x})^4}$$

$$a_3 = \frac{\sum (x_i - \bar{x})^3 (y_i - \bar{y})}{\sum (x_i - \bar{x})^6}$$

$$a_4 = \frac{\sum (x_i - \bar{x})^4 (y_i - \bar{y})}{\sum (x_i - \bar{x})^8}$$

$$a_5 = \frac{\sum (x_i - \bar{x})^5 (y_i - \bar{y})}{\sum (x_i - \bar{x})^{10}}$$

$$a_6 = \frac{\sum (x_i - \bar{x})^6 (y_i - \bar{y})}{\sum (x_i - \bar{x})^{12}}$$

$$a_7 = \frac{\sum (x_i - \bar{x})^7 (y_i - \bar{y})}{\sum (x_i - \bar{x})^{14}}$$

$$a_8 = \frac{\sum (x_i - \bar{x})^8 (y_i - \bar{y})}{\sum (x_i - \bar{x})^{16}}$$

$$a_9 = \frac{\sum (x_i - \bar{x})^9 (y_i - \bar{y})}{\sum (x_i - \bar{x})^{18}}$$

$$a_{10} = \frac{\sum (x_i - \bar{x})^{10} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{20}}$$

$$a_{11} = \frac{\sum (x_i - \bar{x})^{11} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{22}}$$

$$a_{12} = \frac{\sum (x_i - \bar{x})^{12} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{24}}$$

$$a_{13} = \frac{\sum (x_i - \bar{x})^{13} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{26}}$$

$$a_{14} = \frac{\sum (x_i - \bar{x})^{14} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{28}}$$

$$a_{15} = \frac{\sum (x_i - \bar{x})^{15} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{30}}$$

$$a_{16} = \frac{\sum (x_i - \bar{x})^{16} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{32}}$$

$$a_{17} = \frac{\sum (x_i - \bar{x})^{17} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{34}}$$

$$a_{18} = \frac{\sum (x_i - \bar{x})^{18} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{36}}$$

$$a_{19} = \frac{\sum (x_i - \bar{x})^{19} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{38}}$$

$$a_{20} = \frac{\sum (x_i - \bar{x})^{20} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{40}}$$

$$a_{21} = \frac{\sum (x_i - \bar{x})^{21} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{42}}$$

$$a_{22} = \frac{\sum (x_i - \bar{x})^{22} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{44}}$$

$$a_{23} = \frac{\sum (x_i - \bar{x})^{23} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{46}}$$

$$a_{24} = \frac{\sum (x_i - \bar{x})^{24} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{48}}$$

$$a_{25} = \frac{\sum (x_i - \bar{x})^{25} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{50}}$$

$$a_{26} = \frac{\sum (x_i - \bar{x})^{26} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{52}}$$

$$a_{27} = \frac{\sum (x_i - \bar{x})^{27} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{54}}$$

$$a_{28} = \frac{\sum (x_i - \bar{x})^{28} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{56}}$$

$$a_{29} = \frac{\sum (x_i - \bar{x})^{29} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{58}}$$

$$a_{30} = \frac{\sum (x_i - \bar{x})^{30} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{60}}$$

$$a_{31} = \frac{\sum (x_i - \bar{x})^{31} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{62}}$$

$$a_{32} = \frac{\sum (x_i - \bar{x})^{32} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{64}}$$

$$a_{33} = \frac{\sum (x_i - \bar{x})^{33} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{66}}$$

$$a_{34} = \frac{\sum (x_i - \bar{x})^{34} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{68}}$$

$$a_{35} = \frac{\sum (x_i - \bar{x})^{35} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{70}}$$

$$a_{36} = \frac{\sum (x_i - \bar{x})^{36} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{72}}$$

$$a_{37} = \frac{\sum (x_i - \bar{x})^{37} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{74}}$$

$$a_{38} = \frac{\sum (x_i - \bar{x})^{38} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{76}}$$

$$a_{39} = \frac{\sum (x_i - \bar{x})^{39} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{78}}$$

$$a_{40} = \frac{\sum (x_i - \bar{x})^{40} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{80}}$$

$$a_{41} = \frac{\sum (x_i - \bar{x})^{41} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{82}}$$

$$a_{42} = \frac{\sum (x_i - \bar{x})^{42} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{84}}$$

$$a_{43} = \frac{\sum (x_i - \bar{x})^{43} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{86}}$$

$$a_{44} = \frac{\sum (x_i - \bar{x})^{44} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{88}}$$

$$a_{45} = \frac{\sum (x_i - \bar{x})^{45} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{90}}$$

$$a_{46} = \frac{\sum (x_i - \bar{x})^{46} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{92}}$$

$$a_{47} = \frac{\sum (x_i - \bar{x})^{47} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{94}}$$

$$a_{48} = \frac{\sum (x_i - \bar{x})^{48} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{96}}$$

$$a_{49} = \frac{\sum (x_i - \bar{x})^{49} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{98}}$$

$$a_{50} = \frac{\sum (x_i - \bar{x})^{50} (y_i - \bar{y})}{\sum (x_i - \bar{x})^{100}}$$

INTERPOLATION

Use a polynomial fit:

Linear: $y = a_0 + a_1 x$

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

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

Quartic: $y = a_0 + a_1 x + a_2 x^2 + a_3 x^3 + a_4 x^4$

Quintic: $y = a_0 + a_1 x + a_2 x^2 + a_3 x^3 + a_4 x^4 + a_5 x^5$

Spline: $y = a_0 + a_1 x + a_2 x^2 + a_3 x^3 + a_4 x^4 + a_5 x^5 + a_6 x^6 + a_7 x^7 + a_8 x^8 + a_9 x^9 + a_{10} x^{10}$

Order: $n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10$

Turns: $n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10$

Spines: $n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10$

ODE's

Runge-Kutta

Heun's Method

Classical 4th order Runge-Kutta

Runge-Kutta

Runge-Kutta

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PDE'S

Finite Difference Method:

Central Difference

Forward Difference

Backward Difference

Central Difference

Central Difference

Central Difference

Central Difference

Central Difference

Central Difference

Central Difference

Central Difference

EIGEN VALUES

Example:

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a_{11} - \lambda & a_{12} & a_{13} \\ a_{21} & a_{22} - \lambda & a_{23} \\ a_{31} & a_{32} & a_{33} - \lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

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$$\begin{bmatrix} a_{11} - \lambda & a_{12} & a_{13} \\ a_{21} & a_{22} - \lambda & a_{23} \\ a_{31} & a$$

Numerical Methods In Smog Prediction

C. A. Brebbia, Roberto San José



Numerical Methods In Smog Prediction:

Numerical Methods in Smog Prediction M. van Loon, 1997 **Air Pollution Modelling and Simulation** Bruno Sportisse, 2013-06-29 This book collates the written contributions of the Second Conference on Air Pollution Modelling and Simulation APMS 2001 A wide range of current topics is covered focusing on three challenging issues 1 the modelling issue of complex multiphase atmospheric chemistry 2 the numerical issue associated with comprehensive three dimensional chemistry transport models and 3 the key issues of data assimilation and inverse modelling State of the art research is presented with many operational procedures applied at either forecast agencies or companies *Adaptive Method of Lines* A. Vande Wouwer, Ph. Saucez, W.E. Schiesser, 2001-04-18 The general Method of Lines MOL procedure provides a flexible format for the solution of all the major classes of partial differential equations PDEs and is particularly well suited to evolutionary nonlinear wave PDEs Despite its utility however there are relatively few texts that explore it at a more advanced level and reflect the method s *Air Pollution Modeling and Its Application XIII* Sven-Erik Gryning, Ekaterina Batchvarova, 2012-12-06 The ITM conference series has always had a strong spirit of cooperation under the NATO CCMS umbrella and with the considerable interest from Partner countries to participate in the ITM conferences it provides an excellent opportunity to create ties between scientists Whereas all previous ITM conferences have taken place in NATO countries the 23rd ITM takes place in a Cooperative Partner country Bulgaria and is hosted by the National Institute of Meteorology and Hydrology Bulgarian Academy of Sciences This fact reflects a general wish for a closer connection and collaboration among scientists from Partner and NATO countries This volume contains the papers from the 23rd NATO CCMS International Technical Meetings on Air Pollution Modelling and Its Application being held September 28 October 2 1998 at Riviera Holiday Club Varna Bulgaria It was attended by 120 participants from 30 countries Thanks are due to all who made it possible to plan carry through and follow up the meeting and to the participants who made the conference so successful Special thanks are due to the sponsoring institutions ATO CCMS EURASAP RIS0 BAS 3M NATO CCMS Committee on the Challenges of Modern Society EURASAP European Association for the Science of Air Pollution RIS0 Ris0 National Laboratory Denmark NIMH National Institute of Meteorology and Hydrology Bulgaria BAS Bulgarian Academy of Sciences 3M Representation office Bulgaria Prestige Business Ltd Bulgaria The excellent collaboration with CIM Company for International Meetings Ltd **Computational Science - ICCS 2001** Vassil N. Alexandrov, Jack J. Dongarra, Benjoe A. Juliano, Rene S. Renner, C.J. Kenneth Tan, 2003-05-15 LNCS volumes 2073 and 2074 contain the proceedings of the International Conference on Computational Science ICCS 2001 held in San Francisco California May 27 31 2001 The two volumes consist of more than 230 contributed and invited papers that reflect the aims of the conference to bring together researchers and scientists from mathematics and computer science as basic computing disciplines researchers from various application areas who are pioneering advanced application of computational methods to sciences such as physics chemistry

life sciences and engineering arts and humanitarian fields along with software developers and vendors to discuss problems and solutions in the area to identify new issues and to shape future directions for research as well as to help industrial users apply various advanced computational techniques **Meteorological and Geostrophysical Abstracts** ,1997

Large-scale Scientific Computations of Engineering and Environmental Problems II Michael Griebel,Svetozar Margenov,Plamen Yalamov,2000 *Air Pollution II* J. M. Baldasano,1994 The last decade has shown an increase in public and government concern around environmental issues due to air pollution in particular those generated by man made processes seeking the comfort of modern society Atmospheric pollution consists of the adverse effects on the environment of a variety of substances contaminants emitted into the atmosphere by natural and man made processes These phenomena are complicated by the fact that an apparently inert contaminant can be transformed by chemical reaction into an adverse one during its transport through the atmosphere **Measuring and Modelling Investigation of Environmental Processes**

Roberto San José,1999 These proceedings explore how computerization has allowed greater analysis and simulation of environmental processes relevant to those predicting environmental effects This text relates the practice among researchers around the world *Pollution Abstracts* ,1995 Indexes material from conference proceedings and hard to find documents in addition to journal articles Over 1 000 journals are indexed and literature published from 1981 to the present is covered Topics in pollution and its management are extensively covered from the standpoints of atmosphere emissions mathematical models effects on people and animals and environmental action Major areas of coverage include air pollution marine pollution freshwater pollution sewage and wastewater treatment waste management land pollution toxicology and health noise and radiation **Emerging Technologies in Fluids, Structures, and Fluid/structure Interactions** ,2000 **Air**

Pollution V H. Power,T. Tirabassi,C. A. Brebbia,1997 **Equations aux dérivées partielles et applications** Jacques-Louis Lions,1998 **High-Performance Computing and Networking** Bob Hertzberger,Peter Sloot,1997-04-18 Proceedings Parallel Computing *Measurements and Modelling in Environmental Pollution* C. A. Brebbia,Roberto San José,1997 The proceedings of the first international conference on this subject *Proceedings of EUROTRAC Symposium '98* ,1999 **Analele științifice ale Universității "Al. I. Cuza" din Iași** Universitatea "Al. I. Cuza" din Iași,1996

Proceedings of the IFAC 6th World Congress, Boston/Cambridge, Massachusetts, U.S.A., August 24-30, 1975 International Federation of Automatic Control,1975 **Report on Use of Surveillance and Control Techniques for Air Pollution Alert Systems** Organisation for Economic Co-operation and Development. Air Management Sector Group,Organisation for Economic Co-operation and Development. Environment Directorate,1976 **U.S. Government Research & Development Reports** ,1971

The book delves into Numerical Methods In Smog Prediction. Numerical Methods In Smog Prediction is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Numerical Methods In Smog Prediction, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Numerical Methods In Smog Prediction
 - Chapter 2: Essential Elements of Numerical Methods In Smog Prediction
 - Chapter 3: Numerical Methods In Smog Prediction in Everyday Life
 - Chapter 4: Numerical Methods In Smog Prediction in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Numerical Methods In Smog Prediction. The first chapter will explore what Numerical Methods In Smog Prediction is, why Numerical Methods In Smog Prediction is vital, and how to effectively learn about Numerical Methods In Smog Prediction.
3. In chapter 2, this book will delve into the foundational concepts of Numerical Methods In Smog Prediction. This chapter will elucidate the essential principles that must be understood to grasp Numerical Methods In Smog Prediction in its entirety.
4. In chapter 3, the author will examine the practical applications of Numerical Methods In Smog Prediction in daily life. The third chapter will showcase real-world examples of how Numerical Methods In Smog Prediction can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Numerical Methods In Smog Prediction in specific contexts. The fourth chapter will explore how Numerical Methods In Smog Prediction is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Numerical Methods In Smog Prediction. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Numerical Methods In Smog Prediction.

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