

Numerical Methods Lecture 5 - Curve Fitting Techniques

Topics

motivation
interpolation
linear regression
higher order polynomial form
exponential form

Curve fitting - motivation

For root finding, we used a given function to identify where it crossed zero
where does $f(x) = 0$??

Q: Where does this given function $f(x)$ come from in the first place?

- Analytical models of phenomena (e.g. equations from physics)
- Create an equation from observed data

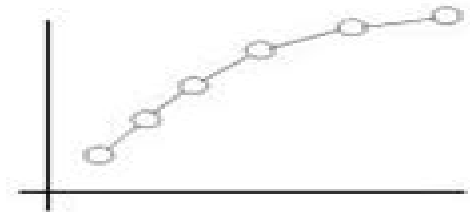
1) Interpolation (connect the data-dots)

If data is reliable, we can plot it and connect the dots

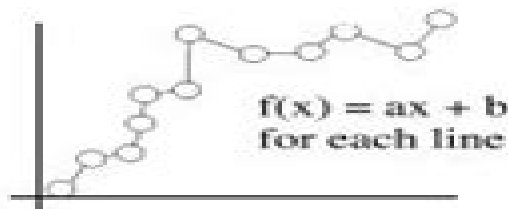
This is piece-wise, linear interpolation

This has limited use as a general function $f(x)$

Since its really a group of small $f(x)$ s, connecting one point to the next it doesn't work very well for data that has built in random error (scatter)



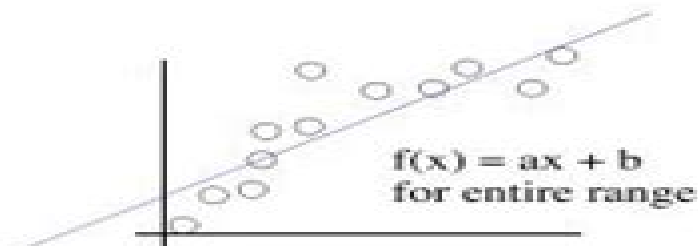
2) Curve fitting - capturing the trend in the data by assigning a single function across the entire range.
The example below uses a straight line function



Interpolation

$$f(x) = ax + b$$

for each line



Curve Fitting

$$f(x) = ax + b$$

for entire range

A straight line is described generically by $f(x) = ax + b$

The goal is to identify the coefficients 'a' and 'b' such that $f(x)$ 'fits' the data well

Numerical Methods Of Curve Fitting

NITA H. SHAH

A decorative graphic consisting of a red circular shape with a white center, partially obscured by a white horizontal bar that extends from the left edge of the slide.

Numerical Methods Of Curve Fitting:

Numerical Methods of Curve Fitting P. G. Guest, Philip George Guest, 2012-12-13 This 1961 book provides information on the methods of treating series of observations the field covered embraces portions of both statistics and numerical analysis *Numerical Methods of Curve Fitting* Philip George Guest, 2003-01 *Numerical methods of curve fitting* P. G. Guest, 1961 **Numerical Methods of Curve Fitting** Paul Gordon Guest, 1961 **Numerical Methods for Non-linear Least Squares Curve Fitting** Derald Dee Walling, 1963 **A Least-square Distance Curve-fitting Technique** John Q. Howell, 1971 **Numerical Methods with C++ Programming** NITA H. SHAH, 2008-12-15 The rapid development of high speed digital computers and the increasing desire for numerical answers to applied problems have led to increased demands in the courses dealing with the methods and techniques of numerical analysis Numerical methods have always been useful but their role in the present day scientific research has become prominent For example they enable one to find the roots of transcendental equations and in solving nonlinear differential equations Indeed they give the solution when ordinary analytical methods fail This well organized and comprehensive text aims at enhancing and strengthening numerical methods concepts among students using C programming a fast emerging preferred programming language among software developers The book provides a synthesis of both theory and practice It focuses on the core areas of numerical analysis including algebraic equations interpolation boundary value problem and matrix eigenvalue problems The mathematical concepts are supported by a number of solved examples Extensive self review exercises and answers are provided at the end of each chapter to help students review and reinforce the key concepts KEY FEATURES C programs are provided for all numerical methods discussed More than 400 unsolved problems and 200 solved problems are included to help students test their grasp of the subject The book is intended for undergraduate and postgraduate students of Mathematics Engineering and Statistics Besides students pursuing BCA and MCA and having Numerical Methods with C Programming as a subject in their course will benefit from this book **Numerical Methods for Experimental Mechanics** Donald Berghaus, 2013-11-27 The purpose of this book is to place a resource in the hands of experimental mechanics researchers to enable them to understand and to obtain a working familiarity with certain of the numerical methods particularly useful to the field The book is organized to permit readers to study the methods and to observe their application in experimental problems It is also intended to encourage readers to directly apply the methods to the same problems or to similar problems of their choosing To this end computer programs are available electronically together with data for easy application Program listings are given in the appendix There are four chapters which make up the central coverage of the text The first of these deals with least square methods of problem solution both for curve fitting and for general solution of overdetermined problems Nonlinear least squares methods are included Secondly splines specifically smoothed splines are covered including specification of boundary conditions for the latter Use for differentiation is emphasized with attention to control of possible

excesses in smoothing Transform methods are the third major area covered both the Discrete Fourier Transform and the Fast Fourier Transform Their combined use is described for appropriate problems Finally digital filters are included principally the Butterworth low pass filter Coverage also includes different filter orders high pass filters and the two pass filter technique The author has had experience with the four areas covered and with all of the example problems described in the text

Encyclopedic Dictionary of Mathematics Nihon Sūgakkai, 1993 V 1 A N v 2 O Z Appendices and indexes

Applied Numerical Methods Using MATLAB Won Y. Yang, Wenwu Cao, Jaekwon Kim, Kyung W. Park, Ho-Hyun Park, Jingon Joung, Jong-Suk Ro, Han L. Lee, Cheol-Ho Hong, Taeho Im, 2020-05-12 This new edition provides an updated approach for students engineers and researchers to apply numerical methods for solving problems using MATLAB This accessible book makes use of MATLAB software to teach the fundamental concepts for applying numerical methods to solve practical engineering and or science problems It presents programs in a complete form so that readers can run them instantly with no programming skill allowing them to focus on understanding the mathematical manipulation process and making interpretations of the results Applied Numerical Methods Using MATLAB Second Edition begins with an introduction to MATLAB usage and computational errors covering everything from input output of data to various kinds of computing errors and on to parameter sharing and passing and more The system of linear equations is covered next followed by a chapter on the interpolation by Lagrange polynomial The next sections look at interpolation and curve fitting nonlinear equations numerical differentiation integration ordinary differential equations and optimization Numerous methods such as the Simpson Euler Heun Runge kutta Golden Search Nelder Mead and more are all covered in those chapters The eighth chapter provides readers with matrices and Eigenvalues and Eigenvectors The book finishes with a complete overview of differential equations Provides examples and problems of solving electronic circuits and neural networks Includes new sections on adaptive filters recursive least squares estimation Bairstow's method for a polynomial equation and more Explains Mixed Integer Linear Programming MILP and DOA Direction of Arrival estimation with eigenvectors Aimed at students who do not like and or do not have time to derive and prove mathematical results Applied Numerical Methods Using MATLAB Second Edition is an excellent text for students who wish to develop their problem solving capability without being involved in details about the MATLAB codes It will also be useful to those who want to delve deeper into understanding underlying algorithms and equations

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