

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

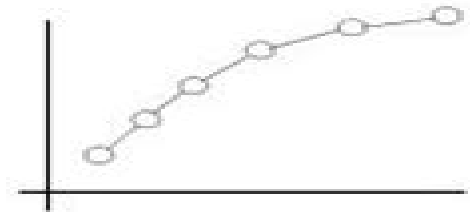
1) Interpolation (connect the data-dots)

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

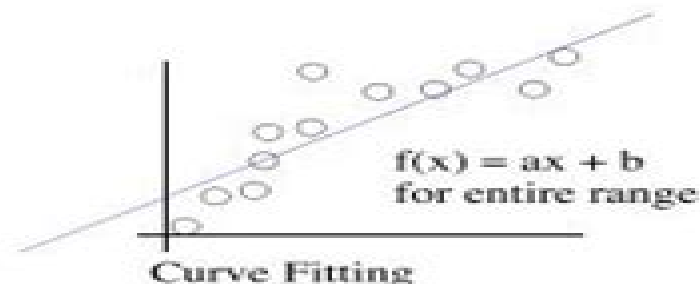
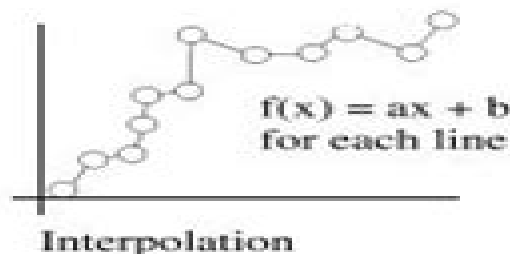
This is piece-wise, linear interpolation

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



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

**Md. Masud Rana, Wei Xu, Youguang
Guo**



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 *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 an 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 **A Least-square Distance Curve-fitting**

Technique John Q. Howell, 1971 **Encyclopedic Dictionary of Mathematics** Nihon Sūgakkai, 1993 V 1 A N v 2 O Z Apendices and indexes **Fundamentals of Computational Methods for Engineers** Md. Masud Rana, Wei Xu, Youguang Guo, 2022-06-01 This textbook bridges the gap between introductory and advanced numerical methods for engineering students The book initially introduces readers to numerical methods before progressing to linear and nonlinear equations Next the book covers the topics of interpolation curve fitting and approximation integration differentiation and differential equations The book concludes with a chapter on advanced mathematical analysis which explains methods for finite difference method of moments and finite elements The book introduces readers to key concepts in engineering such as error analysis algorithms applied mathematics with the goal of giving an understanding of how to solve engineering problems using computational methods Each of the featured topics is explained with sufficient detail while retaining the usual introductory nuance This blend of beginner friendly and applied information along with reference listings makes the textbook useful to

students of undergraduate and introductory graduate courses in mathematics and engineering Dennis G. Zill, Warren S. Wright, 2009-12-21 Now with a full color design the new Fourth Edition of Zill's Advanced Engineering Mathematics provides an in depth overview of the many mathematical topics necessary for students planning a career in engineering or the sciences A key strength of this text is Zill's emphasis on differential equations as mathematical models discussing the constructs and pitfalls of each The Fourth Edition is comprehensive yet flexible to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus Numerous new projects contributed by esteemed mathematicians have been added New modern applications and engaging projects makes Zill's classic text a must have text and resource for Engineering Math students Computer Methods for Engineering with MATLAB Applications Yogesh Jaluria, 2011-09-08 Substantially revised and updated Computer Methods for Engineering with MATLAB Applications Second Edition presents equations to describe engineering processes and systems It includes computer methods for solving these equations and discusses the nature and validity of the numerical results for a variety of engineering problems This edition now 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 *A Method of Curve Fitting* S. Krichewsky, 1922 *Mine Planning and Equipment Selection* 1995 J. Hadjigeorgiou, A.K. Mehmotra, R. Poulin, R.K. Singhal, 1995-10-31 This text presents about 150 papers based on an international symposium on mine planning and equipment selection held in Canada in 1995 Coverage includes design and planning of surface and underground mines surface mining and the environment tailings disposal and slope stability analysis **Practical Numerical Methods with C#** Jack Xu, 2019 The second edition of this book builds all the code example within a single project by incorporating new

advancements in C NET technology and open source math libraries It also uses C Interactive Window to test numerical computations without compiling or running the complete project code The second edition includes three new chapters including Plotting Fourier Analysis and Math Expression Parser As in the first edition this book presents an in depth exposition of the various numerical methods used in real world scientific and engineering computations It emphasizes the practical aspects of C numerical methods and mathematical functions programming and discusses various techniques in details to enable you to implement these numerical methods in your NET application Ideal for scientists engineers and students who would like to become more adept at numerical methods the second edition of this book covers the following content Overview of C programming The mathematical background and fundamentals of numerical methods plotting the computation results using a 3D chart control Math libraries for complex numbers and functions real and complex vector and matrix operations and special functions Numerical methods for generating random numbers and random distribution functions Various numerical methods for solving linear and nonlinear equations Numerical differentiation and integration Interpolations and curve fitting Optimization of single variable and multi variable functions with a variety of techniques including advanced simulated annealing and evolutionary algorithms Numerical techniques for solving ordinary differential equations Numerical methods for solving boundary value problems Eigenvalue problems Fourier analysis mathematical expression parser and evaluator In addition this book provides testing examples for every math function and numerical method to show you how to use these functions and methods in your own NET applications in a manageable and step by step fashion Please visit the author s website for more information about this book at <https://drxudotnet.com> <https://drxudotnet.com> and <https://gincker.com>

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