

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

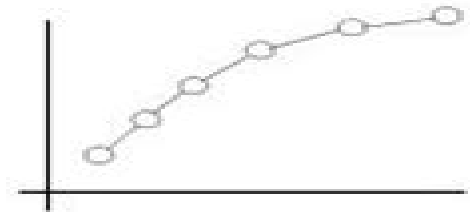
1) Interpolation (connect the data-dots)

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

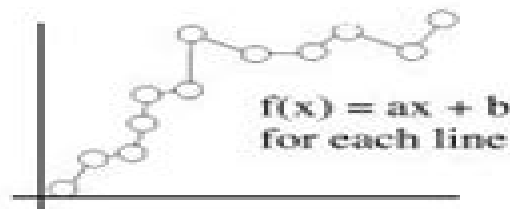
This is piece-wise, linear interpolation

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

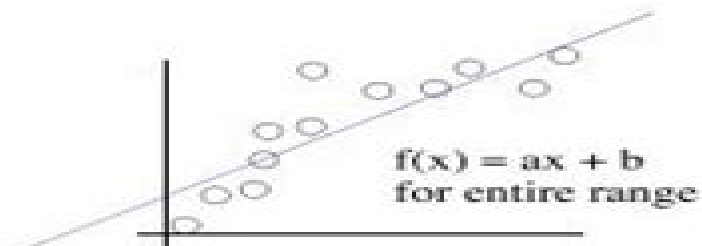
Since its really a group of small $f(x)$ s, connecting one point to the next it doesn't work very well for data that has built in random error (scatter)



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



Curve Fitting

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

A Loxley



Numerical Methods Of Curve Fitting:

Reviewing **Numerical Methods Of Curve Fitting**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Numerical Methods Of Curve Fitting**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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