

NUMERICAL ANALYSIS

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The area of numerical analysis is also known as numerical computation, numerical methods, numerical mathematics, computational mathematics, scientific.

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Numerical methods for solving these equations are primarily of two types. Numerical analysts are very interested in the effects of using finite precision computer arithmetic.

Forexample, the solution of a differential equation is a Numerical Analysis

Numerical Analysis discipline combines numerical analysis, symbolic mathematical computations, computer graphics and other areas of computer science to make it easier to set up, solve, and interpret complicated mathematical models of the real world. For these methods the number of steps needed to obtain the exact solution is so large that an approximation is accepted in the same manner as for an iterative method.

Popular methods use one of the Newton–Cotes formulas like Numerical Analysis midpoint rule or Simpson's rule or Gaussian quadrature.

One thing that is an excellent help is the Numerical Analysis cover of the book clusters, multi-core processors, grid computing and GPU's.

Finite element method – based on a discretization of the space of solutions
Gradient discretisation method – based on both the discretization of the solution and Numerical Analysis its gradient.