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Numerical Methods
for Engineers-
Chapter 1 Lecture 1
(By Dr. M. Umair)

1.1.1-Introduction:

Numerical vs

Analytical Methods

~~Numerical Methods~~

~~2.1 Numerical~~

~~solutions to equations~~

Euler's Method

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*Differential Equations,
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Method | Problem#1 |

Complete Concept

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Material Control

~~Numerical Solution of~~

~~a Single Eigenvalue~~

Newton Raphson

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The study of
approximation
techniques for solving
mathematical
problems, taking into
account the extent of
possible errors.

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definition of Numerical

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Solution Definition A

numerical solution

means making

guesses at the

solution and testing

whether the problem

is solved well enough

to stop. An example is

the square root that

can be solved both

ways. We prefer the

analytical method in

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Solution
Definition
general because it is
faster and because
the solution is exact.

Page 9/28

Numerical Solution

Definition -

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A numerical solution
means making
guesses at the
solution and testing
whether the problem

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is solved well enough to stop. An example is the square root that can be solved both ways. We prefer the analytical method in general because it is faster and because the solution is exact.

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The study of

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techniques for solving mathematical

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Numerical analysis is

the study of

algorithms that use

numerical

approximation (as

opposed to symbolic

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Solution
manipulations) for the
problems of
Definition
mathematical analysis
(as distinguished from
discrete
mathematics).

Numerical analysis
naturally finds
application in all fields
of engineering and
the physical sciences,
but in the 21st century
also the life sciences,
social sciences,

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medicine, business

and even the arts

have adopted

elements of scientific

computations. The

growth in computing

power has revol

Numerical analysis -

Wikipedia

Numerical definition is

- of or relating to

numbers. How to use

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numerical in a
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In the mathematical subfield of numerical analysis, numerical stability is a generally desirable property of numerical algorithms. The precise definition

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of stability depends on the context. One is numerical linear algebra and the other is algorithms for solving ordinary and partial differential equations by discrete approximation. In numerical linear algebra the principal concern is instabilities caused by proximity to singularities of

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various kinds, such as
very small or nearly
colliding eigen

Numerical stability -
Wikipedia

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post. Analytical
approach example:

Find the root of $f(x) = x^2 - 5$. Analytical
solution: $f(x) = x^2 - 5$
 $= 0$, add $+ 5$ to both

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Sides to get the
answer $x = 5$.

Numerical solution:

let's guess $x = 1$: $f(1)$
 $= 1^2 - 5 = -4$. A

negative number.

Let's guess $x = 6$: $f(6)$
 $= 6^2 - 5 = 31$. A

positive number.

What's the difference
between analytical
and numerical ...

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Numerical simulation.

See: configuration management;

independent review;

validation; verification.

Numerical simulation -
definition of Numerical
simulation ...

A numerical solution
is any approximation
that can be evaluated
in a finite number of

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Solution operations.

Closed form solutions
and numerical

solutions are similar in that they both can be evaluated with a finite number of standard operations. They differ in that a closed-form solution is exact whereas a numerical solution is only approximate.

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Solution

Numerical Solution,
Closed-Form Solution
- GlynHolton.com

The

Grünwald–Letnikov

(GL) definition is

commonly used to

numerical simulations,

this definition is

formulated as (??R):

(3) $a D_t^\alpha f(t) = \lim_{j \rightarrow \infty} \frac{1}{j} \sum_{k=0}^{j-1} \frac{f(t) - f(t - \frac{t}{j})}{(\frac{t}{j})^{\alpha+1}}$

$0 < \alpha < 1$ $k = 0$ $t > a$ $j \in \mathbb{N}$

1) $k \in \mathbb{N}$ $f(t - \frac{t}{j})$,

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where j is the time increment.

Analytical and numerical solutions of electrical circuits ...

The Laplace transform of $f(t)$, that it is denoted by $f(t)$ or $F(s)$ is defined by the equation. whenever the improper integral converges. Standard

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notation: Where the notation is clear, we will use an uppercase letter to indicate the Laplace transform, e.g. $L(f; s) = F(s)$. The Laplace transform we defined is sometimes called the one-sided Laplace transform.

Laplace Transform-
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making guesses at

the solution and

testing whether the

problem is solved well

enough to stop. An

example is the square

root that can be

solved both ways. We

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Solution
Definition
prefer the analytical method in general because it is faster and because the solution is exact.

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Approach. Divide the domain into $(m-1)$ parts in the ex-

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direction and $(n-1)$

parts in the y -
direction.

Discretization of
the domain requires m
nodes by n nodes for
the mesh size,
requiring a
dimension statement fo
r the temperature of
real $T(m,n)$.

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Chapter 2

Convergence of
Numerical Methods In
the last chapter we
derived the forward
Euler method from a
Taylor series
expansion of u_{n+1}
and we utilized the
method on some
simple example
problems without any
supporting analysis.

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Solution

Convergence of
Numerical Methods

Numerical analysis,
area of mathematics
and computer science
that creates,
analyzes, and
implements
algorithms for
obtaining numerical
solutions to problems
involving continuous
variables. Such

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problems arise

throughout the natural
sciences, social

sciences,

engineering,

medicine, and

business.

Numerical analysis |
mathematics |

Britannica

This video lecture is
overview of

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of Probability

Distribution , Poisson
Distribution I

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