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**Analysis Methods**

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*Methods 2.1*

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*equations* Intro

to Numerical

Method -

Numerical Module

1 ~~SIR Model:~~

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~~Numerical~~

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~~Euler method in~~

~~Excel (Book~~

~~Example) (Second~~

~~Video on SIR~~

~~model)~~

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Numerical

analysis using

Python 1:

Solution of

Linear System

~~#Lecture 2#Numer~~

~~ical Solution of~~

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## Solution Of

~~ODE#Euler~~

~~Modified Method~~

~~Euler's Method~~

~~|| Numerical~~

~~Solutions of~~

~~First Order ODEs~~

~~by Euler's~~

~~Method ||~~

~~Numerical~~

~~Methods~~

*Bisection Method*

*- Numerical Root*

*Finding Methods*

*in Python and*



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---

Numerical  
solution of  
ordinary

differential  
equations

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Equations-

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4]Newton Raphson

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Bisection Method

made easy *Solve*

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*bisection,*

*Regula falsi*

*,Newton raphson*

*by calci in just*

*a minute,most*

*precise answer*

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Solve Nonlinear

Equations |

Numerical

Computing with

PythonGraeffie's

Root Squaring

Method | Short

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Numerical Method

~~Numerical~~  
~~solution of ODE~~  
~~±~~

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Taylor's method  
for numerical  
solution of  
differential  
equation

---

Mod-01 Lec-03

Review of

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#Lecture-1#Numerical

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ODE#Euler Method

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(Numerical

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| Engineering

Mathematics

**Bisection Method**

| **Numerical**

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Solution Of

Methods |

Solution of

Algebraic \u0026amp;

Transcendental

Equation

~~Solution of~~

~~Algebraic and~~

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Jaan



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Application-Joel

H. Ferziger

1981-10-09

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numerical

methods used in

the solution of

many engineering

problems,

including

interpolation,

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differential  
equations. Many  
methods are  
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programs, with  
concrete  
examples  
demonstrating  
their actual  
behavior.

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Series functions  
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the Matlab

program-f1, f2,  
f4. Note the 2nd  
. Solution manua  
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Kiusalaas

method is  
discussed  
thoroughly and  
illustrated with  
problems  
involving both  
hand computation  
and programming.

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the power and  
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...

```
function p=newton  
Poly(a,xData,x)  
% Returns value  
of Newton's  
polynomial at x.  
%USAGE:p=newtonP
```

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## Solution Of

```
poly(a,xData,x) %  
a = coefficient  
array of the  
polynomial; %  
must be computed  
first by  
newtonCoeff. %  
xData = x-  
coordinates of  
data points. n =  
length(xData); p  
= a(n);  
for k=1:n-1; p =  
a(n-k) + (x -
```



# Online Library Solution Of

```
xData(n-k)) *p;  
end.
```

## Method Jaan

### Kiusalaas

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interpolation  
and data

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and integration

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for practicing  
engineers.

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a need to seek  
approximate  
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means of  
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methods. Delay.  
differential  
equations (DDEs)  
form an

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important class  
of dynamical  
systems. They  
often arise.

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Solving  
Differential  
Equations  
Numerical  
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below in the  
Matlab program  
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the 2nd Solution  
manual numerical  
methods  
engineering a  
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for Numerical

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Matlab Jaan ...

Ingredients:

Broken wheat: 1

cup Milk: 3 cups

(pasturised or

boiled) Jaggery

(traditional

unrefined cane

sugar) - 2 cups

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(or according to  
taste) Ghee: cup

Water: 3 cups

Cashews: cup

Raisins (draksha  
or dry grapes):

cup Almonds: cup

Cardamom:

(powdered) - tea  
spoon

Preparation

Method: Heat a  
frying pan on  
stove.

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especially those  
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the inner  
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method and small  
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more robust  
computer code  
with each

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avoiding complex  
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schemes, while

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there has been a  
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of programming  
languages from  
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MATLAB for

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to teach the  
fundamental  
concepts using  
the software to  
solve practical  
problems. Over



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and/or science  
problems. The  
main benefit is  
that engineers  
don't have to  
know the mathema  
tical theory in  
order to apply  
the numerical  
methods for  
solving  
their real-life  
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The algorithms are implemented



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are implemented  
in Python 3, a

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of requirements  
of practice,  
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examples, and  
exercises."

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and scientific  
computing and  
successfully  
explains where  
approximation  
methods come  
from, why they  
sometimes work  
(or don't work),  
and when to use  
one of the many  
techniques that  
are available.

Written in a

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style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of

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computational

mathematics is

introduced, and

simple

approximations

using Taylor's

Theorem are also

treated in some

depth. The text

includes

exercises that

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from simple hand  
computations, to  
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on applied  
exercises as  
well as the  
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associated with

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