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Chapter 1  
Lecture 1 (By  
Dr. M. Umair)~~

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Methods Part-11  
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Euler's Method)**

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*Lecture 01:  
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*Analysis |  
Overview of  
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*Analysis | By Ak  
Trapezoidal Rule  
Example [Easiest*



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*Way to Solve]*

**Bisection Method  
made easy**

*4]Newton Raphson*

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*A-2) The Calculas  
of Finite  
Differences  
(Question Type  
1st and 2nd)  
(Numerical  
Analysis)*

(Lecture-3) The  
Calculus Of  
Finite  
Differences  
(Type -3)  
(Numerical  
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3rd year)

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**Analysis Methods**

**(2018) Numerical**

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Integration

-Trapezoidal  
rule, Simpson's  
rule and

weddle's rule in  
hindi TRB

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: Numerical

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Trapezoidal Rule

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**(Runge Kutta**

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Virginia Tech  
MATH/CS 5466  
Spring 2016  
Image from  
Johannes

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Kepler's Astronomia nova, 1609, (ETH Bibliothek). In this text Kepler derives his famous equation that solves two-body orbital motion,  $M = E \sin E$ , where  $M$  (the mean anomaly) and  $e$  (the

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eccentricity)

are known, and  
one solves for  $E$

(the eccentric  
anomaly).

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Analysis II -

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Lecture Notes



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Analysis  
Even if our  
computer could  
do exact real  
arithmetic,  
there would  
still be an  
error resulting  
from stopping  
our iterative  
process at some  
•nite point. „is  
is called  
truncation  
error. We will

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be concerned  
with controlling  
this error and  
designing  
methods which  
converge as fast  
as possible.

## **Numerical Analysis II – Lecture Notes**

The basic  
problem is to  
solve nlinear

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Analysis for  
n unknowns, i.e.  
 $Ax = r$ , where  $A$   
is an  $n$  by  
 $n$  (square)  
matrix,  $x$  is the  
(column) vector  
of the  
n unknowns, and  $r$   
is similarly a  
vector of the  
right hand side  
values.

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**MATH 2P20**

**NUMERICAL**

**ANALYSIS I**

**Lecture Notes**

It covers the

syllabus of

Numerical

Analysis paper

of MSc

Mathematics. See

the contents of

the notes given

below to see the

topics covered

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Analysis notes.  
Numerical  
Analysis is the  
branch of  
mathematics that  
provides tools  
and methods for  
solving  
mathematical  
problems in  
numerical form.  
In numerical  
analysis we are  
mainly

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Analysis  
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interested in  
implementation  
and analysis of  
numerical  
algorithms for  
finding an  
approximate  
solution to a  
mathematical  
problem.

**Numerical  
Analysis by M  
Usman Hamid -**

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Introduction to  
Numerical  
Analysis ...**



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Complex  
Analysis.  
Lecture Notes

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Lecturer:  
Sheehan Olver;

Time: Tuesday  
and Thursday,  
11am ...

Functional  
analysis;

Lecture 16:

Spectrum;

Lecture 17: Infi  
nite-dimensional

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Linear algebra

... Lecture 21:

Matrix-valued

Riemann–Hilbert

problems;

Lecture notes.

Lecture 5: Least

Squares and the

DFT; Lecture 9:

Laurent series;

Lecture 11:

Signal ...

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**Complex Analysis**

- School of  
Mathematics and

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Course Pages

Description This course analyzed the basic techniques for the efficient numerical solution of problems in science and

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Engineering.

Topics spanned  
root finding,  
interpolation,  
approximation of  
functions,  
integration,  
differential  
equations,  
direct and  
iterative  
methods in  
linear algebra.

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Introduction to  
Numerical  
Analysis |  
Mathematics |  
MIT . . . Pages

MA385 (Numerical  
Analysis 1) is a  
one semester, 24  
lecture, upper-  
level module  
that emphasises  
the mathematics  
used to design  
numerical

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Analysis, and to  
analyse their  
properties.

Students also  
experiment with  
implementing  
algorithms in  
MATLAB/Octave.

**MA385/MA530 --**

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**Analysis I**

**(2019/2020)**

These Notes

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Analysis an  
introduction to  
20th century  
mathematics, and  
in particular to  
Mathematical  
Analysis, which  
roughly speaking  
is the "in  
depth" study of  
Calculus. All of  
the Analysis  
material from  
B21H and some of

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the material  
from B30H is  
included here.

## **Introduction To Mathematical Analysis**

B6.2 Numerical  
Solution of  
Differential  
Equations II;  
B7.2 Electromagn  
etism; B7.3  
Further Quantum



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Theory; B8.2

Continuous

Martingales and

Stochastic

Calculus; B8.3

Mathematical

Models of

Financial

Derivatives;

B8.4 Information

Theory; SB3.1

Applied

Probability; BEE

Mathematical

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Analysis Essay;  
BSP Structured  
Projects; B01.1  
History of  
Mathematics

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Lecture notes.  
Official and  
unofficial

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Analysis notes  
exist from  
previous years  
for many  
courses. There  
is no central  
location for  
these, so we  
have collated  
some resources  
below. Bear in  
mind that course  
syllabuses  
evolve over

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time, and  
different  
Lecture Notes  
lecturers  
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structure their  
courses  
Pages  
differently and  
choose their own  
notation  
conventions.

**Tripas-specific  
resources |  
Undergraduate  
Mathematics**

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Examples,  
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and Specimen  
Exam Questions  
and Natural  
Sciences Tripos  
Mathematics  
examples Details  
on obtaining and  
updating the  
source of DAMTP  
examples (this  
is aimed at

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DAMTP Unix  
account holders  
only), and the  
list of course  
codes and titles  
referred to in  
these pages.

**Mathematics  
Examples,  
Lecture Notes  
and Specimen  
Exam ...**  
Cambridge Notes

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Below are the notes I took during lectures in Cambridge, as well as the example sheets. None of this is official.

Included as well are stripped-down versions (eg. definition-only; script-generated and

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doesn't  
necessarily make  
sense), example  
sheets, and the  
source code.

## **Cambridge Notes - SRCF**

Lecture Notes on  
Numerical  
Analysis by  
Peter J. Olver.  
This lecture  
note explains



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the following  
topics: Computer  
Arithmetic,  
Numerical  
Solution of  
Scalar  
Equations,  
Matrix Algebra,  
Gaussian  
Elimination,  
Inner Products  
and Norms,  
Eigenvalues and  
Singular Values,

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Linear Systems,  
Numerical  
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Systems,  
Numerical  
Solution of  
Ordinary  
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Analysis,  
Numerical  
Solution of the  
Heat and Wave  
Equations...

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pm; Thu 2:30 pm  
- 3:15 pm ;  
Tutorial: Thu

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3:30 pm - 4:15  
pm ; Lecture  
Notes. Course  
Outline; Lecture  
Notes; Tutorial  
Notes. Tutorial  
1 with  
solutions;  
Tutorial 2 with  
solutions;  
Tutorial 3 with  
solutions;  
Tutorial 4 with  
solutions;

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Tutorial 5 with  
solutions;  
Tutorial 6;  
Useful Links.

Zoom Links for  
lecture (Wed and  
...

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Najm ...**

Dexter Chua  
About Me. I have  
been a PhD  
student at  
Harvard since

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September 2018.

Previously, I  
did my  
undergraduate  
and Part III at  
Cambridge

(2014–2018)..

Contact Me. You  
can email me at  
`dexter@math.harv  
ard.edu`. My  
office is at  
428a.

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Proceedings:  
Conference on  
the Numerical  
Solution of  
Differential  
Equations,  
Dundee 1973,  
Lecture Notes in  
Mathematics,  
Vol. 363,  
Editor: G A  
Watson, Springer



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Verlag, 1974.

ISBN

3-540-06617-9.

4. SRC sponsored

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Analysis Year

1970-1971;

Symposium on the

Theory Of

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speakers: G H

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2015/16:

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(updated version

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Iserles and A.

Shadrin): -

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Lecture 21 -

Lecture 2 -

Lecture 6 -

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