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Introduction to

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Crout's method /  
LU decomposition  
Method Matlab  
LU Factorization  
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Decomposition  
for Solving  
Linear System of  
Equations in  
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method |~~

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~~factorization |~~

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~~n | LU~~

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SOLUTION OF

VOLTERA INTEGRAL

EQ. USING

ADOMIAN

DECOMPOSITION

METHOD. 1What is

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method, Example

2 #VIEs #ADM

SOLUTION OF  
VOLTERA INTEGRAL

EQUATION BY

ADOMIAN  
DECOMPOSITION

METHOD (1/2)

Lecture # 4 ||

Solution of

Homogeneous

Linear First

Order PDE ||

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Method *Lecture*  
*series of*  
*Perturbation*

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**Lecture # 09 ||**

**Modified Adomian**

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equation

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Cholesky

Factorization

with MATLAB |

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Methods | MATLAB

Helper Crout's

Method || Matlab

code|| System of

equations|| By

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Afraz Hussain

(6.4) LU

Factorization:

MatLab code +

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(6.6) Cholesky

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Chapter3 LU

Method Matlab LU

~~Decomposition~~

~~Using Crout's~~

~~Method in MatLab~~

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Solving 2D

Unsteady

Diffusion using

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Perturbation

methods for

nonlinear PDEs

(Lecture - 01)

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LU factorization

in MATLAB

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Method Lecture #

5 || Solution of

Inhomogeneous

First Order

Linear PDE ||

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Method **Lobatto**

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Runge Kutta

Collocation and

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Decomposition

Methods on Stiff

Differential

Equations IJ

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*SOLUTION OF*

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method with the

following

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initial value  
problem:  $y' =$   
 $f(x, y) + g(x),$   
 $y(x_0) =$   
 $y_0,$  where  $f$   
is the given  
(smooth)

function,  $g$  is  
an input  
(driving) term,  
 $y$  is (unknown)  
output of the  
system, and  
constants  $x_0$

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and  $\gamma_0$  are  
prescribed.

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method with the

following

initial value

problem:  $\{ y' =$

$f(x, y) + g(x),$

$\int_{x_0}^x y(x_0) =$

$y_0, \}$  where  $f$

is the given

(smooth)

function,  $g$  is

an input

(driving) term,

$y$  is (unknown)

output of the

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system, and  
constants  $x_0$   
and  $y_0$  are  
prescribed.

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decomposition  
method with the

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# Adomian

# Decomposition

initial value

problem:  $\{ y' =$

$f(x, y) + g(x),$

$\} \quad y(x_0) =$

$y_0, \}$  where  $f$

is the given

(smooth)

function,  $g$  is

an input

(driving) term,

$y$  is (unknown)

output of the

system, and

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constants  $x_0$   
and  $y_0$  are  
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Decomposition  
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The present  
paper introduces  
a novel MATLAB  
code which  
computes Adomian  
polynomials  
associated with  
several types of  
nonlinearities.

... Adomian

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method is a well  
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polynomials by  
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## Adomian

Code The Adomian

method is based  
on applying the  
inverse operator

$D^{-1}$  formally to

the expression

$(D^{-1})^n u = u^{(n)}$

--. It should be

noted that the

linear operator

$D$  may have a non-

trivial kernel

and  $D^{-1}$  is then

not unique. For

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example if Dis a

second

derivative

operator, a

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The Adomian

method is based

on applying the

inverse operator

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## Adomian

$D^{-1}$  formally to the expression  
 $(\int) D^t L N u g u u =$   
--. It should be noted that the linear operator  $D$  may have a non-trivial kernel and  $D^{-1}$  is then not unique. For example if  $D$  is a second derivative operator, a

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decomposition

method (ADM) is

a systematic

approximation

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Decomposition  
method for  
solving ordinary  
and partial  
nonlinear

differential  
equations. The  
method is based  
on the

assumption that  
the solution can  
be represented  
by infinite  
series  $\left( y(x) = \sum_{n \geq 0} \right)$

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Method (ADM)

is

an elegant

technique to

handle an

extensive class

of linear or

nonlinear

differential and

integral

equations.

However, in case

of nonlinear

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equations, ADM  
demands a  
special  
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representation  
of each  
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polynomials. The  
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code which  
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Polynomials by  
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an elegant

technique to

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handle an  
extensive class  
of linear or  
nonlinear  
differential and  
integral  
equations.

However, in case  
of nonlinear  
equations, ADM  
demands a  
special  
representation  
of each

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namely, Adomian  
polynomials. The  
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code which  
computes Adomian  
polynomials  
associated with  
several types of  
nonlinearities.

**1113 | Partial**

*Page 40/54*



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**Decomposition  
Equation |  
Nonlinear System**

The Adomian decomposition method (ADM) is a semi-analytical method for solving ordinary and partial nonlinear differential equations. The

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method was developed from the 1970s to the 1990s by George Adomian, chair of the Center for Applied Mathematics at the University of Georgia. It is further extensible to stochastic systems by using

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the Ito integral. The

aim of this

method is

towards a Free

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**decomposition**

**method -**

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The Adomian

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Method (ADM)

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## Adomian

Decomposition  
which has been  
subject to much  
investigation  
[1], [2], [3],  
[4], [6] avoids  
artificial  
boundary  
conditions,  
linearisation  
and yields an  
efficient  
numerical  
solution with  
high degree

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accuracy. It  
enables the  
accurate and  
e\_cient  
analytical  
solution of NDE  
without the need  
to resort to

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**Adomian**

**Decomposition**

**Method in**

**Solving ...**

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## Adomian

### 1 Introduction

The Adomian decomposition method [1-2] is a technique for solving functional equations in the form:

$$u = f + G(u)$$

(1) In some functional space, say  $F$ . The solution  $u$  is considered as

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the summation of  
a series, say;

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Algorithm for

Calculating

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**Polynomials**

The LU

decomposition

method consists

of finding the L

and U matrices

that will

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## Adomian

Decomposition

satisfy the equation  $A=L*U$ ,  
A being a square matrix. Once L

and U found, in

order to solve for x, we can

rewrite the

equation  $A*x=B$

as  $L*x\_star=b$

(Eq.1) where

$x\_star=U*x$

(Eq.2) .



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