



# Solution of nonlinear partial differential equations by triple Laplace decomposition method

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**Abstract**—in this work, we have discussed the solutions of partial differential equations nonlinear in Three Dimensions by Combining the Adomian decomposition method and triple Laplace transform and the examples application to solve partial differential equations in three- dimensions.

**Keywords**—Triple Laplace transform, Inverse Triple Laplace transform, Adomian decomposition method.

## I. INTRODUCTION

The method was developed from 1970 to the 1990 by George Adomian the chair of the center for applied mathematics at the university of Georgia in (USA) is called Adomian decomposition method (ADM) is a semi analytical method for solving ordinary and partial nonlinear differential equations.[1-6]

P. S. Laplace (1749–1827) introduced the idea of the Laplace transform in 1782; [7-10] The Laplace transform denoted by the operator  $L$  is defined as

$$L[f(t); \rho] = \int_0^{\infty} e^{-\rho t} f(t) dt, \quad t > 0 \quad (1)$$

The main objective of the study is to extend the method of decomposition algorithm to convert one-dimensional Laplace Adomian decomposition method to three-dimensional Laplace Adomian decomposition method to solve nonlinear partial differential equations. The advantage of this method is its capability to combining two powerful methods to obtain accurate solutions to nonlinear three-dimensional equations. Several examples are given to re-establish the effectiveness of this method. [11-13]

## II. PROPOSED ALGORITHM

### A. Theorems and Definitions of triple Laplace transform

**Definition: 1** Let  $f(x, y, z)$  be a function that can be expressed as convergent infinite series, and let  $(x, y, z) \in R_+^3$ , then, the triple Laplace Transform is denoted by:

$$L_3[f(x, y, z); (\sigma, \rho, \delta)] =$$

$$\int_0^{\infty} \int_0^{\infty} \int_0^{\infty} e^{-\sigma x - \rho y - \delta z} f(x, y, z) dx dy dz \quad (2)$$

where  $x, y, z > 0$  and  $\sigma, \rho, \delta$  are Laplace variables, and

$$f(x, y, z) = \frac{1}{2\pi i} \int_{\sigma-i\infty}^{\sigma+i\infty} e^{sx} \left[ \frac{1}{2\pi i} \int_{\rho-i\infty}^{\rho+i\infty} e^{sy} \left[ \frac{1}{2\pi i} \int_{\delta-i\infty}^{\delta+i\infty} e^{sz} f(x, y, z) d\delta \right] d\rho \right] d\sigma$$

is the inverse triple Laplace transform denoted by  $L_3^{-1}$ .

**Theorem: 2** let  $f(t)$  be in  $S$  and let  $F_n(\rho)$  denote Laplace transform of  $n$ th derivative,  $f^{(n)}(t)$  of  $f(t)$ , then for  $n \geq 1$

$$F_n(\rho) = \rho^n F(\rho) - \sum_{k=0}^{n-1} \rho^{n-k-1} f^{(k)}(0) \quad (3)$$

To obtain Laplace transform of partial derivative we use integration by parts, and then we have

$$\begin{aligned} L_3 \left[ \frac{\partial f(x, y, z)}{\partial x} \right] &= \delta F(\sigma, \rho, \delta) - F(\sigma, \rho, 0), \\ L_3 \left[ \frac{\partial^2 f(x, y, z)}{\partial x^2} \right] &= \delta^2 F(\sigma, \rho, \delta) - \delta F(\sigma, \rho, 0) - \frac{\partial F(\sigma, \rho, 0)}{\partial \sigma}, \\ L_3 \left[ \frac{\partial^3 f(x, y, z)}{\partial x \partial y \partial z} \right] &= \sigma \rho \delta F(\sigma, \rho, \delta) + \sigma F(\sigma, 0, 0) + \rho F(0, \rho, 0) + \delta F(0, 0, \delta) - \sigma \rho F(\sigma, \rho, 0) - \sigma \delta F(\sigma, 0, \delta) - \rho \delta F(0, \rho, \delta) - F(0, 0, 0) \end{aligned} \quad (4)$$

### B. Theorems and properties of triple Laplace transform Decomposition Method for PDEs –

In this section, we to illustrate the basic idea of this method, we consider a general non-linear no homogeneous partial differential equation

$$\frac{\partial^m u(x, y, z)}{\partial t^m} + Ru(x, y, z) + Nu(x, y, z) = g(x, y, z), \quad (5)$$

Where  $m = 1, 2, 3$ , with the initial conditions

$$\left. \frac{\partial^{m-1} u(x, y, z)}{\partial t^{m-1}} \right|_{t=0} = f_{m-1}(x, y), \quad m = 1, 2, 3, \quad (6)$$

# Nonlinear Partial Differential Equations A Symposium On Methods Of Solution

**JS Bruner**



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Focuses on the notion that by breaking the domain of the original problem into subdomains such an approach can if properly implemented lead to a considerable speedup The methods are particularly well suited for parallel computers      *Proceedings of the Sixth International Conference on Management Science and Engineering Management* Jiuping Xu, Masoom Yasin, Benjamin Lev, 2012-09-25 Welcome to the proceedings of the Sixth International Conference on Management Science and Engineering Management ICMSEM2012 held from November 11 to 14 2012 at Quaid i Azam University Islamabad Pakistan and supported by Sichuan University Chengdu China Quaid i Azam University Islamabad Pakistan and The National Natural Science Foundation of China The International Conference on Management Science and Engineering Management is the annual conference organized by the International Society of Management Science and Engineering Management The goals of the Conference are to foster international research collaborations in Management Science and Engineering Management as well as to provide a forum to present current research results The papers are classified into 8 sections Computer and Networks Information Technology Decision Support System Industrial Engineering Supply Chain Management Project Management Manufacturing and Ecological Engineering The key issues of the sixth ICMSEM cover various areas in MSEM such as Decision Support System Computational Mathematics Information Systems Logistics and Supply Chain Management Relationship Management Scheduling and Control Data Warehousing and Data Mining Electronic Commerce Neural Networks Stochastic models and Simulation Heuristics Algorithms Risk Control and Carbon Credits

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