

# He-Laplace Method for Special Nonlinear Partial Differential Equations

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## Abstract

In this article, we consider Cauchy problem for the nonlinear parabolic-hyperbolic partial differential equations. These equations are solved by He-Laplace method.. It is shown that, in He-Laplace method, the nonlinear terms of differential equation can be easily handled by the use of He's polynomials and provides better results.

**Keywords:** Laplace transform method, Homotopy perturbation method, Partial differential equations, He's polynomials.

**AMS Subject classification:** 35G10; 35G15; 35G25; 35G30; 74S30.

## 1. Introduction

Nonlinearity exists everywhere and nature is nonlinear in general. The search for a better and easy to use tool for the solution of nonlinear equations that illuminate the nonlinear phenomena of real life problems of science and engineering has recently received a continuing interest. Various methods, therefore, were proposed to find approximate solutions of nonlinear equations. Some of the classical analytic methods are Lyapunov's artificial small parameter method [17], perturbation techniques [6,23,22, 25]. The Laplace decomposition method have been used to solve nonlinear differential equations [1-4, 16, 19, 20, 27]. J.H.He developed the homotopy perturbation method (HPM) [6-13,14-15,21,24,26] by merging the standard homotopy and perturbation for solving various physical problems. Furthermore, the homotopy perturbation method is also combined with the well-known Laplace transformation method [18] which is known as Laplace homotopy perturbation method.

In this paper, the main objective is to solve partial differential equations by using He-Laplace method. It is worth mentioning that He-Laplace method is an elegant combination of the Laplace transformation, the homotopy perturbation method and He's polynomials. The use of He's polynomials in the nonlinear term was first introduced by Ghorbani [5, 23]. This paper contains basic idea of homotopy perturbation method in section 2, He-Laplace method in section 3, examples in section 4 and conclusions in section 5 respectively.

## 2. Basic idea of homotopy perturbation method

Consider the following nonlinear differential equation

$$A(y) - f(r) = 0, \quad r \in \Omega \quad (1)$$

with the boundary conditions of

$$B\left(y, \frac{\partial y}{\partial n}\right) = 0, \quad r \in \Gamma, \quad (2)$$

where  $A$ ,  $B$ ,  $f(r)$  and  $\Gamma$  are a general differential operator, a boundary operator, a known analytic function and the boundary of the domain  $\Omega$ , respectively.

The operator  $A$  can generally be divided into a linear part  $L$  and a nonlinear part  $N$ . Eq. (1) may therefore be written as:

$$L(y) + N(y) - f(r) = 0, \quad (3)$$

By the homotopy technique, we construct a homotopy  $v(r, p) : \Omega \times [0, 1] \rightarrow \mathbb{R}$  which satisfies:

$$H(v, p) = (1 - p)[L(v) - L(y_0)] + p[A(v) - f(r)] = 0 \quad (4)$$

$$\text{or} \quad H(v, p) = L(v) - L(y_0) + p[L(y_0) + p[N(v) - f(r)]] = 0 \quad (5)$$

where  $p \in [0, 1]$  is an embedding parameter, while  $y_0$  is an initial approximation of Eq.(1), which satisfies the boundary conditions. Obviously, from Eqs.(4) and (5) we will have:

# Nonlinear Partial Differential Equations A Symposium On Methods Of Solution

**Remo Ruffini, Thibault Damour, Robert  
T Jantzen**



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Science 5 Circuits and Systems All the accepted papers have been presented on the conference mainly by oral presentations During the conference many novel research works caught the attentions of the participants The participants came to an agreement that they will participate in the CyberSE 2014 next year All the presented papers will be published by DEStech Publications USA DEStech will have the proceeding indexed in ISI Institute of Scientific Information CPCI S ISTP Google Book Search EI and other worldwide online citation of qualified papers We express our thanks to all the members of the General Committee Chairs Program Committee Chairs Technical Program Committee and Volunteers who worked so hard to prepare the conference and chair the five sessions in CyberSE 2013 We hope that CyberSE 2013 will be successful and enjoyable to all participants We look forward to seeing all of you next year at the CyberSE 2014 Deyao Tan International Association for Cyber Science and Engineering China

*Proceedings of the Fifth International Conference on Hadronic Mechanics and Nonpotential Interactions: Physics* Hyo Chul Myung, 1992 This volume contains the papers devoted to physics presented at the Fifth International Conference on title which was held at the U of Northern Iowa in Cedar Falls August 1990 Among the topics in 28 papers Lie admissible complex time model coherent nuclear states in a supermanifold meson mes

**Proceedings of the Second International Conference on Soft Computing for Problem Solving (SocProS 2012), December 28-30, 2012** B. V. Babu, Atulya Nagar, Kusum Deep, Millie Pant, Jagdish Chand Bansal, Kanad Ray, Umesh Gupta, 2014-07-08 The present book is based on the research papers presented in the International Conference on Soft Computing for Problem Solving SocProS 2012 held at JK Lakshmipat University Jaipur India This book provides the latest developments in the area of soft computing and covers a variety of topics including mathematical modeling image processing optimization swarm intelligence evolutionary algorithms fuzzy logic neural networks forecasting data mining etc The objective of the book is to familiarize the reader with the latest scientific developments that are taking place in various fields and the latest sophisticated problem solving tools that are being developed to deal with the complex and intricate problems that are otherwise difficult to solve by the usual and traditional methods The book is directed to the researchers and scientists engaged in various fields of Science and Technology

**Twelfth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories (In 3 Volumes) - Proceedings Of The Mg12 Meeting On General Relativity** Remo Ruffini, Thibault Damour, Robert T Jantzen, 2012-02-02 Marcel Grossmann Meetings are formed to further the development of General Relativity by promoting theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts In these meetings are discussed recent developments in classical and quantum gravity general relativity and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions with the main objective of gathering scientists from diverse backgrounds for deepening the understanding of spacetime structure and reviewing the status of test experiments for Einstein s theory of gravitation The range of topics is broad going

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**Proceedings of International Conference on Trends in Computational and Cognitive Engineering** Phool Singh,Rajesh Kumar Gupta,Kanad Ray,Anirban

Bandyopadhyay,2020-09-30 This book presents various computational and cognitive modeling approaches in the areas of health education finance the environment engineering commerce and industry Gathering selected conference papers presented at the International Conference on Trends in Computational and Cognitive Engineering TCCE it shares cutting edge insights and ideas from mathematicians engineers scientists and researchers and discusses fresh perspectives on problem solving in a range of research areas

4th International Conference on Computational Mathematics and Engineering Sciences (CMES-2019) Hemen Dutta,Zakia Hammouch,Hasan Bulut,Haci Mehmet Baskonus,2020-01-10 This book gathers original research papers presented at the 4th International Conference on Computational Mathematics and Engineering Sciences held at Akdeniz University Antalya Turkey on 20-22 April 2019 Focusing on computational methods in science mathematical tools applied to engineering mathematical modeling and new aspects of analysis the book discusses the applications of mathematical modelling in areas such as health science engineering computer science social science and economics It also describes a wide variety of analytical computational and numerical methods The conference aimed to foster cooperation between students and researchers in the areas of computational mathematics and engineering sciences and provide a platform for them to share significant research ideas This book is a valuable resource for graduate students researchers and educators interested in the mathematical tools and techniques required for solving various problems arising in science and engineering and understanding new methods and uses of mathematical analysis

Applied Mechanics Reviews ,1967 *Fourteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg14 Meeting On General Relativity (In 4 Parts)* Massimo Bianchi,Robert T Jantzen,Remo Ruffini,2017-10-13 The four volumes of the proceedings of MG14 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 35 morning plenary talks over 6 days 6 evening popular talks and 100 parallel sessions on 84 topics over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics The remaining volumes include

parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity      **Scientific and Technical Books in Print** ,1972

**Handbook of Differential Equations: Evolutionary Equations** C.M. Dafermos,Eduard Feireisl,2005-10-05 The aim of this Handbook is to acquaint the reader with the current status of the theory of evolutionary partial differential equations and with some of its applications Evolutionary partial differential equations made their first appearance in the 18th century in the endeavor to understand the motion of fluids and other continuous media The active research effort over the span of two centuries combined with the wide variety of physical phenomena that had to be explained has resulted in an enormous body of literature Any attempt to produce a comprehensive survey would be futile The aim here is to collect review articles written by leading experts which will highlight the present and expected future directions of development of the field The emphasis will be on nonlinear equations which pose the most challenging problems today Volume I of this Handbook does focus on the abstract theory of evolutionary equations Volume 2 considers more concrete problems relating to specific applications Together they provide a panorama of this amazingly complex and rapidly developing branch of mathematics

**Proceedings of 4th International Conference on Mathematical Modeling and Computational Science** Souvik Pal,Álvaro Rocha,2025-06-13 This book aims to capture the interest of researchers and professionals in information technology computer science and mathematics It covers fundamental and advanced concepts related to intelligent computing paradigms data sciences graph theory and mathematical modeling In high performance computing the need for intelligent adaptive computing mechanisms and the integration of mathematical modeling in computational algorithms is becoming increasingly significant Serving as a valuable resource for industry professionals this book also supports beginners in gaining insights into enhanced computing paradigms and mathematical concepts from foundational to advanced levels Our objective is to provide a platform for researchers engineers academicians and industry experts worldwide to share their findings on emerging trends The authors believe this book not only presents innovative ideas but also fosters engaging discussions and inspires new perspectives

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## **Table of Contents Nonlinear Partial Differential Equations A Symposium On Methods Of Solution**

1. Understanding the eBook Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - The Rise of Digital Reading Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Personalized Recommendations
  - Nonlinear Partial Differential Equations A Symposium On Methods Of Solution User Reviews and Ratings
  - Nonlinear Partial Differential Equations A Symposium On Methods Of Solution and Bestseller Lists
5. Accessing Nonlinear Partial Differential Equations A Symposium On Methods Of Solution Free and Paid eBooks
  - Nonlinear Partial Differential Equations A Symposium On Methods Of Solution Public Domain eBooks
  - Nonlinear Partial Differential Equations A Symposium On Methods Of Solution eBook Subscription Services



- Nonlinear Partial Differential Equations A Symposium On Methods Of Solution Budget-Friendly Options
- 6. Navigating Nonlinear Partial Differential Equations A Symposium On Methods Of Solution eBook Formats
  - ePub, PDF, MOBI, and More
  - Nonlinear Partial Differential Equations A Symposium On Methods Of Solution Compatibility with Devices
  - Nonlinear Partial Differential Equations A Symposium On Methods Of Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Highlighting and Note-Taking Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Interactive Elements Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
- 8. Staying Engaged with Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
- 9. Balancing eBooks and Physical Books Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Setting Reading Goals Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Fact-Checking eBook Content of Nonlinear Partial Differential Equations A Symposium On Methods Of Solution
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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