

# Decomposition Analysis Method in Linear and Non-Linear Differential Equations

Kansari Haldar



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# Decomposition Analysis Method In Linear And Nonlinear Differential Equations

**Wen Chen, HongGuang Sun, Xicheng Li**

## **Decomposition Analysis Method In Linear And Nonlinear Differential Equations:**

Decomposition Analysis Method in Linear and Nonlinear Differential Equations Kansari Haldar, 2015-10-22 A Powerful Methodology for Solving All Types of Differential Equations Decomposition Analysis Method in Linear and Non Linear Differential Equations explains how the Adomian decomposition method can solve differential equations for the series solutions of fundamental problems in physics astrophysics chemistry biology medicine and other scientific **Handbook of Differential Equations** Daniel Zwillinger, Vladimir Dobrushkin, 2021-12-30 Through the previous three editions Handbook of Differential Equations has proven an invaluable reference for anyone working within the field of mathematics including academics students scientists and professional engineers The book is a compilation of methods for solving and approximating differential equations These include the most widely applicable methods for solving and approximating differential equations as well as numerous methods Topics include methods for ordinary differential equations partial differential equations stochastic differential equations and systems of such equations Included for nearly every method are The types of equations to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users The fourth edition includes corrections many supplied by readers as well as many new methods and techniques These new and corrected entries make necessary improvements in this edition **Nonlinear Differential Equations in Physics** Santanu Saha Ray, 2019-12-28 This book discusses various novel analytical and numerical methods for solving partial and fractional differential equations Moreover it presents selected numerical methods for solving stochastic point kinetic equations in nuclear reactor dynamics by using Euler Maruyama and strong order Taylor numerical methods The book also shows how to arrive at new exact solutions to various fractional differential equations such as the time fractional Burgers Hopf equation the 3 1 dimensional time fractional Khokhlov Zabolotskaya Kuznetsov equation 3 1 dimensional time fractional KdV Khokhlov Zabolotskaya Kuznetsov equation fractional 2 1 dimensional Davey Stewartson equation and integrable Davey Stewartson type equation Many of the methods discussed are analytical numerical namely the modified decomposition method a new two step Adomian decomposition method new approach to the Adomian decomposition method modified homotopy analysis method with Fourier transform modified fractional reduced differential transform method MFRDTM coupled fractional reduced differential transform method CFRDTM optimal homotopy asymptotic method first integral method and a solution procedure based on Haar wavelets and the operational matrices with function approximation The book proposes for the first time a generalized order operational matrix of Haar wavelets as well as new techniques MFRDTM and CFRDTM for solving fractional differential equations Numerical methods used to solve stochastic point kinetic equations like the Wiener process Euler Maruyama and order 1 5 strong Taylor methods are also discussed **Homotopy Analysis Method in Nonlinear Differential Equations** Shijun Liao, 2012-06-22 Homotopy Analysis Method in Nonlinear Differential Equations presents the

latest developments and applications of the analytic approximation method for highly nonlinear problems namely the homotopy analysis method HAM Unlike perturbation methods the HAM has nothing to do with small large physical parameters In addition it provides great freedom to choose the equation type of linear sub problems and the base functions of a solution Above all it provides a convenient way to guarantee the convergence of a solution This book consists of three parts Part I provides its basic ideas and theoretical development Part II presents the HAM based Mathematica package BVPh 1.0 for nonlinear boundary value problems and its applications Part III shows the validity of the HAM for nonlinear PDEs such as the American put option and resonance criterion of nonlinear travelling waves New solutions to a number of nonlinear problems are presented illustrating the originality of the HAM Mathematica codes are freely available online to make it easy for readers to understand and use the HAM This book is suitable for researchers and postgraduates in applied mathematics physics nonlinear mechanics finance and engineering Dr Shijun Liao a distinguished professor of Shanghai Jiao Tong University is a pioneer of the HAM

*Diversity of Ecosystems* Mahamane Ali, 2012-04-27 The ecosystems present a great diversity worldwide and use various functionalities according to ecologic regions In this new context of variability and climatic changes these ecosystems undergo notable modifications amplified by domestic uses of which it was subjected to Indeed the ecosystems render diverse services to humanity from their composition and structure but the tolerable levels are unknown The preservation of these ecosystemic services needs a clear understanding of their complexity The role of research is not only to characterise the ecosystems but also to clearly define the tolerable usage levels Their characterisation proves to be important not only for the local populations that use it but also for the conservation of biodiversity Hence the measurement management and protection of ecosystems need innovative and diverse methods For all these reasons the aim of this book is to bring out a general view on the function of ecosystems modelling sampling strategies invading species the response of organisms to modifications the carbon dynamics the mathematical models and theories that can be applied in diverse conditions

**Analytical Methods for Nonlinear Oscillators and Solitary Waves** Chu-Hui He, Hamid M. Sedighi, Ji-Huan He, Yusry El-Dib, Dragan Marinkovic, 2023-11-24 The most well known analytical method is the perturbation method which has led to the great discovery of Neptune in 1846 and since then mathematical prediction and empirical observation became two sides of a coin in physics However the perturbation method is based on the small parameter assumption and the obtained solutions are valid only for weakly nonlinear equations which have greatly limited their applications to modern physical problems To overcome the shortcomings many mathematicians and physicists have been extensively developing various technologies for several centuries however there is no universal method for all nonlinear problems and mathematical prediction with remarkably high accuracy is still much needed for modern physics for example the solitary waves traveling along an unsmooth boundary the low frequency property of a harvesting energy device the pull in voltage in a micro electromechanical system Now various effective analytical methods have appeared in the open literature

e.g. the homotopy perturbation method and the variational iteration method. An analytical solution provides a fast insight into its physical properties of a practical problem e.g. frequency amplitude relation of a nonlinear oscillator solitary wave in an optical fiber pull in instability of a microelectromechanical system making mathematical prediction even more attractive in modern physics. Nonlinear physics has been developing into a new stage where the fractal fractional differential equations have to be adopted to describe more accurately discontinuous problems and it becomes ever more difficult to find an analytical solution for such nonlinear problems and the analytical methods for fractal fractional differential equations have laid the foundations for nonlinear physics.

*Analytical Methods in Nonlinear Oscillations* Ebrahim Esmailzadeh, Davood Younesian, Hassan Askari, 2018-06-29. This book covers both classical and modern analytical methods in nonlinear systems. A wide range of applications from fundamental research to engineering problems are addressed. The book contains seven chapters each with miscellaneous problems and their detailed solutions. More than 100 practice problems are illustrated which might be useful for students and researchers in the areas of nonlinear oscillations and applied mathematics. With providing real world examples this book shows the multidisciplinary emergence of nonlinear dynamical systems in a wide range of applications including mechanical and electrical oscillators, micro nano resonators and sensors and also modelling of global warming, epidemic diseases, sociology, chemical reactions, biology and ecology.

**Advanced Numerical and Semi-Analytical Methods for Differential Equations** Snehashish Chakraverty, Nisha Mahato, Perumandla Karunakar, Tharasi Dilleswar Rao, 2019-04-16. Examines numerical and semi analytical methods for differential equations that can be used for solving practical ODEs and PDEs. This student friendly book deals with various approaches for solving differential equations numerically or semi analytically depending on the type of equations and offers simple example problems to help readers along. Featuring both traditional and recent methods, *Advanced Numerical and Semi Analytical Methods for Differential Equations* begins with a review of basic numerical methods. It then looks at Laplace, Fourier and weighted residual methods for solving differential equations. A new challenging method of Boundary Characteristics Orthogonal Polynomials BCOPs is introduced next. The book then discusses Finite Difference Method (FDM), Finite Element Method (FEM), Finite Volume Method (FVM) and Boundary Element Method (BEM). Following that, analytical/semi analytical methods like Akbari-Ganji's Method (AGM) and Exp function are used to solve nonlinear differential equations. Nonlinear differential equations using semi analytical methods are also addressed, namely Adomian Decomposition Method (ADM), Homotopy Perturbation Method (HPM), Variational Iteration Method (VIM) and Homotopy Analysis Method (HAM). Other topics covered include emerging areas of research related to the solution of differential equations based on differential quadrature and wavelet approach combined and hybrid methods for solving differential equations as well as an overview of fractal differential equations. Further uncertainty in terms of intervals and fuzzy numbers have also been included along with the interval finite element method. This book discusses various methods for solving linear and nonlinear ODEs and PDEs. Covers

basic numerical techniques for solving differential equations along with various discretization methods Investigates nonlinear differential equations using semi analytical methods Examines differential equations in an uncertain environment Includes a new scenario in which uncertainty in term of intervals and fuzzy numbers has been included in differential equations Contains solved example problems as well as some unsolved problems for self validation of the topics covered Advanced Numerical and Semi Analytical Methods for Differential Equations is an excellent text for graduate as well as post graduate students and researchers studying various methods for solving differential equations numerically and semi analytically

**Articles in ITJEMAST 10(12) 2019** , International Transaction Journal of Engineering Management Applied Sciences Technologies publishes a wide spectrum of research and technical articles as well as reviews experiments experiences modelings simulations designs and innovations from engineering sciences life sciences and related disciplines as well as interdisciplinary cross disciplinary multidisciplinary subjects Original work is required Article submitted must not be under consideration of other publishers for publications

**Advances in Mathematical Modelling, Applied Analysis and Computation** Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Carlo Cattani, Devendra Kumar, 2022-10-13 This book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation It includes selected peer reviewed papers presented at the 4th International Conference on Mathematical Modelling Applied Analysis and Computation ICMMAAC 2021 held at JECRC University Jaipur India during August 5 7 2021 The book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories which can be used to analyze different kinds of mathematical models Applications of mathematical methods in physics chemistry biology mechanical engineering civil engineering computer science social science and finance are presented

**New Approaches to Nonlinear Waves** Elena Tobisch, 2015-08-19 The book details a few of the novel methods developed in the last few years for studying various aspects of nonlinear wave systems The introductory chapter provides a general overview thematically linking the objects described in the book Two chapters are devoted to wave systems possessing resonances with linear frequencies Chapter 2 and with nonlinear frequencies Chapter 3 In the next two chapters modulation instability in the KdV type of equations is studied using rigorous mathematical methods Chapter 4 and its possible connection to freak waves is investigated Chapter 5 The book goes on to demonstrate how the choice of the Hamiltonian Chapter 6 or the Lagrangian Chapter 7 framework allows us to gain a deeper insight into the properties of a specific wave system The final chapter discusses problems encountered when attempting to verify the theoretical predictions using numerical or laboratory experiments All the chapters are illustrated by ample constructive examples demonstrating the applicability of these novel methods and approaches to a wide class of evolutionary dispersive PDEs e g equations from Benjamin Oro Boussinesq Hasegawa Mima KdV type Klein Gordon NLS type Serre Shamel Whitham and Zakharov This

makes the book interesting for professionals in the fields of nonlinear physics applied mathematics and fluid mechanics as well as students who are studying these subjects The book can also be used as a basis for a one semester lecture course in applied mathematics or mathematical physics

**Fractional Calculus with Applications for Nuclear Reactor Dynamics** Santanu Saha Ray, 2015-07-29 Introduces Novel Applications for Solving Neutron Transport Equations While deemed nonessential in the past fractional calculus is now gaining momentum in the science and engineering community Various disciplines have discovered that realistic models of physical phenomenon can be achieved with fractional calculus and are using them in numerous way

*Mathematics of Complexity and Dynamical Systems* Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers

*In Discrete Time* Weigang Zhang, 2017-12-04 The book begins by introducing signals and systems and then discusses Time Domain analysis and Frequency Domain analysis for Continuous Time systems It also covers Z transform state space analysis and system synthesis The author provides abundant examples and exercises to facilitate learning preparing students for subsequent courses on circuit analysis and communication theory

*Fractional Derivative Modeling in Mechanics and Engineering* Wen Chen, HongGuang Sun, Xicheng Li, 2022-02-26 This textbook highlights the theory of fractional calculus and its wide applications in mechanics and engineering It describes in details the research findings in using fractional calculus methods for modeling and numerical simulation of complex mechanical behavior It covers the mathematical basis of fractional calculus the relationship between fractal and fractional calculus unconventional statistics and anomalous diffusion typical applications of fractional calculus and the numerical solution of the fractional differential equation It also includes latest findings such as variable order derivative distributed order derivative and its applications Different from other textbooks in this subject the book avoids lengthy mathematical demonstrations and presents the theories in close connection to the applications in an easily readable manner This textbook is intended for students researchers and professionals in applied physics engineering mechanics and applied mathematics It is also of high reference value for those in environmental mechanics geotechnical mechanics biomechanics and rheology

**Applications of Differential Transform to Real World Problems** Yogeshwari F Patel, Jayesh M Dhodiya, 2022-08-08

This book is an invaluable resource for applied researchers to find the analytical solution of differential equations describing the dynamical system with less computational effort and time. It describes the basic concepts of the differential transform method and solution of various real world problems described by simple to complicated differential equations. It provides a computational technique that is not only conceptually simple and easy to use but also readily adaptable for computer coding. Different chapters of the book deal with the basic differential equations involved in the physical phenomena as well as a complicated system of differential equations described by the mathematical model. The book offers comprehensive coverage of the most essential topics including Basic concepts and fundamental properties of the proposed technique with proof. The solution of linear nonlinear homogeneous and nonhomogeneous ordinary differential equations ODEs and partial differential equations PDEs. The initial and boundary value problems. Real world ODE and PDE problems are also discussed. Applications of Differential Transform to Real World Problems is primarily aimed at undergraduates, graduates and researchers studying differential equations. Scientists dealing with complicated differential equations or systems of differential equations will also find this book useful.

**Multicomponent and Multiscale Systems** Juergen Geiser, 2015-08-21. This book examines the latest research results from combined multi component and multi scale explorations. It provides theory, considers underlying numerical methods and presents brilliant computational experimentation. Engineering computations featured in this monograph further offer particular interest to many researchers, engineers and computational scientists working in frontier modeling and applications of multicomponent and multiscale problems. Professor Geiser gives specific attention to the aspects of decomposing and splitting delicate structures and controlling decomposition and the rationale behind many important applications of multi component and multi scale analysis. Multicomponent and Multiscale Systems: Theory, Methods and Applications in Engineering also considers the question of why iterative methods can be powerful and more appropriate for well balanced multiscale and multicomponent coupled nonlinear problems. The book is ideal for engineers and scientists working in theoretical and applied areas.

**Discontinuity and Complexity in Nonlinear Physical Systems** J. A. Tenreiro Machado, Dumitru Baleanu, Albert C J Luo, 2013-12-04. Discontinuity in Nonlinear Physical Systems explores recent developments in experimental research in this broad field organized in four distinct sections. Part I introduces the reader to the fractional dynamics and Lie group analysis for nonlinear partial differential equations. Part II covers chaos and complexity in nonlinear Hamiltonian systems important to understand the resonance interactions in nonlinear dynamical systems such as Tsunami waves and wildfire propagations as well as Lev flights in chaotic trajectories, dynamical system synchronization and DNA information complexity analysis. Part III examines chaos and periodic motions in discontinuous dynamical systems extensively present in a range of systems including piecewise linear systems, vibro impact systems and drilling systems in engineering. And in Part IV engineering and financial nonlinearity are discussed. The mechanism of shock wave with saddle



node bifurcation and rotating disk stability will be presented and the financial nonlinear models will be discussed      **In**  
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Domain analysis and Frequency Domain analysis for Continuous Time systems It also covers Z transform state space analysis  
and system synthesis The author provides abundant examples and exercises to facilitate learning preparing students for  
subsequent courses on circuit analysis and communication theory      **Mathematical Fluid Mechanics B.**  
Mahanthesh,2021-06-08 This book aims to include various significant research topics of mathematical fluid mechanics having  
relevance or applications in engineering and applied sciences covering the tools and techniques used for developing  
mathematical methods and modelling related to real life situations

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