Maple Code For Homotopy Analysis Method

Homotopy Analysis Method in Nonlinear Differential EquationsBeyond PerturbationAdvances In The Homotopy Analysis MethodHomotopy-Based Methods in Water EngineeringModified Homotopy Analysis MethodSolving Nonlinear Boundary Value Problems Using the Homotopy Analysis MethodNonlinear Flow Phenomena and Homotopy AnalysisMathematical Modelling, Applied Analysis and ComputationAnalytical Methods in Nonlinear OscillationsModified Homotopy Analysis MethodAdvanced Numerical and Semi-Analytical Methods for Differential EquationsRaising and Lowering Vibration Isolator via Asymmetric Damping AdjustmentModifications of Homotopy Analysis Method for Differential EquationsMathematical Techniques of Fractional Order SystemsComputational Mathematics, Nanoelectronics, and AstrophysicsMethods of Mathematical ModellingFractional Calculus: New Applications in Understanding Nonlinear PhenomenaThe Application of Discrete Homotopy Analysis Method in One-dimensional Thermal ProblemSeries Solution for Solving Integral Equations by Homotopy Analysis MethodThe Homotopy Analysis Method for Solving the Korteweg-de Vries (KDV) Equation Shijun Liao Shijun Liao Shijun Liao Manotosh Kumbhakar Ahmad El-Ajou Ghada Ayed Janem Kuppalapalle Vajravelu Jagdev Singh Ebrahim Esmailzadeh Ahmad Mohammad El-Ajou Snehashish Chakraverty Jialing Yao A. K. Alomari Ahmad Taher Azar Shaibal Mukherjee Harendra Singh Mehmet Yavuz Qian Fen Ooi Eman Mohamed A. Abu jarad Norizzati Salleh Homotopy Analysis Method in Nonlinear Differential Equations Beyond Perturbation Advances In The Homotopy Analysis Method Homotopy-Based Methods in Water Engineering Modified Homotopy Analysis Method Solving Nonlinear Boundary Value Problems Using the Homotopy Analysis Method Nonlinear Flow Phenomena and Homotopy Analysis Mathematical Modelling, Applied Analysis and Computation Analytical Methods in Nonlinear Oscillations Modified Homotopy Analysis Method Advanced Numerical and Semi-Analytical Methods for Differential Equations Raising and Lowering Vibration Isolator via Asymmetric Damping Adjustment Modifications of Homotopy Analysis Method for Differential Equations Mathematical Techniques of Fractional Order Systems Computational Mathematics, Nanoelectronics, and Astrophysics Methods of Mathematical Modelling Fractional Calculus: New Applications in Understanding Nonlinear Phenomena The

Application of Discrete Homotopy Analysis Method in One-dimensional Thermal Problem Series Solution for Solving Integral Equations by Homotopy Analysis Method The Homotopy Analysis Method for Solving the Korteweg-de Vries (KDV) Equation *Shijun Liao Shijun Liao Shijun Liao Manotosh Kumbhakar Ahmad El-Ajou Ghada Ayed Janem Kuppalapalle Vajravelu Jagdev Singh Ebrahim Esmailzadeh Ahmad Mohammad El-Ajou Snehashish Chakraverty Jialing Yao A. K. Alomari Ahmad Taher Azar Shaibal Mukherjee Harendra Singh Mehmet Yavuz Qian Fen Ooi Eman Mohamed A. Abu jarad Norizzati Salleh*

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

solving nonlinear problems is inherently difficult and the stronger the nonlinearity the more intractable solutions become analytic approximations often break down as nonlinearity becomes strong and even perturbation approximations are valid only for problems with weak nonlinearity this book introduces a powerful new analytic method for nonlinear problems homotopy analysis that remains valid even with strong nonlinearity in part i the author starts with a very simple example then presents the basic ideas detailed procedures and the advantages and limitations of homotopy analysis part ii illustrates the application of homotopy analysis to many interesting nonlinear problems these range from simple bifurcations of a nonlinear boundary value problem to the thomas fermi atom model volterra s population model von karman swirling viscous flow and nonlinear progressive waves in deep water although the homotopy analysis method has

been verified in a number of prestigious journals it has yet to be fully detailed in book form written by a pioneer in its development beyond pertubation introduction to the homotopy analysis method is your first opportunity to explore the details of this valuable new approach add it to your analytic toolbox and perhaps make contributions to some of the questions that remain open

unlike other analytic techniques the homotopy analysis method ham is independent of small large physical parameters besides it provides great freedom to choose equation type and solution expression of related linear high order approximation equations the ham provides a simple way to guarantee the convergence of solution series such uniqueness differentiates the ham from all other analytic approximation methods in addition the ham can be applied to solve some challenging problems with high nonlinearity this book edited by the pioneer and founder of the ham describes the current advances of this powerful analytic approximation method for highly nonlinear problems coming from different countries and fields of research the authors of each chapter are top experts in the ham and its applications

most complex physical phenomena can be described by nonlinear equations specifically differential equations in water engineering nonlinear differential equations play a vital role in modeling physical processes analytical solutions to strong nonlinear problems are not easily tractable and existing techniques are problem specific and applicable for specific types of equations exploring the concept of homotopy from topology different kinds of homotopy based methods have been proposed for analytically solving nonlinear differential equations given by approximate series solutions homotopy based methods in water engineering attempts to present the wide applicability of these methods to water engineering problems it solves all kinds of nonlinear equations namely algebraic transcendental equations ordinary differential equations odes systems of odes partial differential equations pdes systems of pdes and integro differential equations using the homotopy based methods the content of the book deals with some selected problems of hydraulics of open channel flow with or without sediment transport groundwater hydrology surface water hydrology general burger s equation and water quality features provides analytical treatments to some key problems in water engineering describes the applicability of homotopy based methods for solving nonlinear equations particularly differential equations compares different approaches in dealing with issues of nonlinearity

we present a modification of an analytic technique namely the homotopy analysis method ham to obtain symbolic

approximate solutions for linear and nonlinear differential equations of fractional order this method was applied to three examples a fractional oscillation equation a fractional riccati equation and a fractional lane emden equation which were presented as fractional initial value problems fivps we extend this modification to provide approximate solutions of linear and nonlinear fractional boundary value problems fbvps four examples are tested using the extended approach also four physical problems are solved using the modification of the ham the ham is a strong and easy to use analytic tool for nonlinear problems and does not need small large parameters in the equations comparison of the results with those of adomian decomposition method adm variational iteration method vim and homotopy perturbation method hpm has led us to significant consequences the obtained results show that the present method is very effective and convenient in solving nonlinear cases and the adm vim and hpm are special cases of the ham

analytical solutions of differential equations are very important for all researchers from different discipline obtaining such solutions is difficult in most cases especially if the differential equation is nonlinear one of the mostly used methods are the series methods where the solution is represented as an infinite series different methods are available to evaluate the terms of this series these methods include the well known taylor series method the adomian decomposition method the homotopy iteration method and the homotopy analysis method in this thesis we give a survey of the different series methods available to solve initial and boundary value problems the methods to be presented are the taylor series method the adomina decomposition method and the homotopy analysis method the main features of each method will be presented and the error analysis will be discussed as well for the homotopy analysis method the error is controlled by introducing the parameter known as ℏ then the error is controlled by monitoring the value of the solution at a specific point for different values of ℏ this produces what is known as the ℏ curve the mathematical foundation of this method is not very well established and the method will not work at all times the error for the taylor series and the adomian decomposition method is controlled by adding more terms to the series solution which might be costly and difficult to calculate especially if the differential equation is nonlinear in this study we will show that the error can be controlled by other means a modified taylor series method has been developed and will be discussed the method is based on controlling the error through different choices of the point of expansion the mathematical foundation of the method and application of the method to differential equations with singularities and eigenvalue problems will be presented

since most of the problems arising in science and engineering are nonlinear they are inherently difficult to solve traditional analytical approximations are valid only for weakly nonlinear problems and often fail when used for problems with strong nonlinearity nonlinear flow phenomena and homotopy analysis fluid flow and heat transfer presents the current theoretical developments of the analytical method of homotopy analysis this book not only addresses the theoretical framework for the method but also gives a number of examples of nonlinear problems that have been solved by means of the homotopy analysis method the particular focus lies on fluid flow problems governed by nonlinear differential equations this book is intended for researchers in applied mathematics physics mechanics and engineering both kuppalapalle vajravelu and robert a van gorder work at the university of central florida usa

this book contains original research papers presented at the international conference on mathematical modelling applied analysis and computation held at jecrc university jaipur india on 6 8 july 2018 organized into 20 chapters the book focuses on theoretical and applied aspects of various types of mathematical modelling such as equations of various types fuzzy mathematical models automata petri nets and bond graphs for systems of dynamic nature and the usage of numerical techniques in handling modern problems of science engineering and finance it covers the applications of mathematical modelling in physics chemistry biology mechanical engineering civil engineering computer science social science and finance a wide variety of dynamical systems like deterministic stochastic continuous discrete or hybrid with respect to time are discussed in the book it provides the mathematical modelling of various problems arising in science and engineering and also new efficient numerical approaches for solving linear and nonlinear problems and rigorous mathematical theories which can be used to analyze a different kind of mathematical models the conference was aimed at fostering cooperation among students and researchers in areas of applied analysis engineering and computation with the deliberations to inculcate new research ideas in their relevant fields this volume will provide a comprehensive introduction to recent theories and applications of mathematical modelling and numerical simulation which will be a valuable resource for graduate students and researchers of mathematical modelling and industrial mathematics

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

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 analytic 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 term 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

this book introduces an approach of controlling vehicle height and attitude by actively raising and lowering vibration isolators via asymmetric damping adjustment the first section of this book identifies the theoretical foundation of asymmetric damping adjustment and discusses practical applications and the significance of this advancement the second section discusses the mechanics and laws governing the active raising and lowering of the vibration isolator the final two sections present the application of this method by incorporating a number of control strategies including model predictive control hybrid model predictive control and active disturbance rejection control the methodology is validated through simulation and co simulation under various vehicle conditions this book will be of interest to automotive engineers and those interested in the field of mechanics vibration and control

this book bring new solutions for various types of differential equations approximate analytic solution was obtained for system of differential equations specially that has chaotic behavior delay differential equations schrodinger and coupled schrodinger equation fractional differential equations differential algebraic equations and some other fluid mechanic models accurate and simple solution was presented via several modifications for homotopy analysis method

mathematical techniques of fractional order systems illustrates advances in linear and nonlinear fractional order systems relating to many interdisciplinary applications including biomedical control circuits electromagnetics and security the book covers the mathematical background and literature survey of fractional order calculus and generalized fractional order circuit theorems from different perspectives in design analysis and realizations nonlinear fractional order circuits and systems the fractional order memristive circuits and systems in design analysis emulators simulation and experimental results it is primarily meant for researchers from academia and industry and for those working in areas such as control engineering electrical engineering computer science and information technology this book is ideal for researchers working in the area of both continuous time and discrete time dynamics and chaotic systems discusses multidisciplinary applications with new fundamentals modeling analysis design realization and experimental results includes circuits and systems based on new nonlinear elements covers most of the linear and nonlinear fractional order theorems that will solve many scientific issues for researchers closes the gap between theoretical approaches and real world applications provides matlab and simulink code for many applications in the book

this book is a collection of original papers presented at the international conference on computational mathematics in

nanoelectronics and astrophysics cmna 2018 held at the indian institute of technology indore india from 1 to 3 november 2018 it aims at presenting recent developments of computational mathematics in nanoelectronics astrophysics and related areas of space sciences and engineering these proceedings discuss the most advanced innovations trends and real world challenges encountered and their solutions with the application of computational mathematics in nanoelectronics astrophysics and space sciences from focusing on nano enhanced smart technological developments to the research contributions of premier institutes in india and abroad on isro s future space explorations this book includes topics from highly interdisciplinary areas of research the book is of interest to researchers students and practising engineers working in diverse areas of science and engineering ranging from applied and computational mathematics to nanoelectronics nanofabrications and astrophysics

this book features original research articles on the topic of mathematical modelling and fractional differential equations the contributions written by leading researchers in the field consist of chapters on classical and modern dynamical systems modelled by fractional differential equations in physics engineering signal processing fluid mechanics and bioengineering manufacturing systems engineering and project management the book offers theory and practical applications for the solutions of real life problems and will be of interest to graduate level students educators researchers and scientists interested in mathematical modelling and its diverse applications features presents several recent developments in the theory and applications of fractional calculus includes chapters on different analytical and numerical methods dedicated to several mathematical equations develops methods for the mathematical models which are governed by fractional differential equations provides methods for models in physics engineering signal processing fluid mechanics and bioengineering discusses real world problems theory and applications

in the last two decades many new fractional operators have appeared often defined using integrals with special functions in the kernel as well as their extended or multivariable forms modern operators in fractional calculus have different properties which are comparable to those of classical operators these have been intensively studied formodelling and analysing real world phenomena there is now a growing body of research on new methods to understand natural occurrences and tackle different problems this book presents ten reviews of recent fractional operators split over three sections 1 chaotic systems and control covers the caputo fractional derivative and a chaotic fractional order financial

system 2 heat conduction covers the duhamel theorem for time dependent source terms and the cattaneo hristov model for oscillatory heat transfer 3 computational methods and their illustrative applications covers mathematical analysis for understanding 5 real word phenomena htlv 1 infection of cd4 t cells traveling waves rumor spreading biochemical reactions and the computational fluid dynamics of a non powered floating object navigating in an approach channel this volume is a resource for researchers in physics biology behavioral sciences and mathematics who are interested in new applications of fractional calculus in the study of nonlinear phenomena

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