

Using Difference Scheme Method and Matlab Technique for Numerical Solution to Telegraph Differential Equations

Antonio Ramos*

* University of Northern Iowa, Cedar Falls, United States

Abstract

In this paper, we propose a numerical solution based in difference scheme method for telegraph equation, which is found that it is more suitable than ordinary diffusion equation on the case of reaction diffusion modelling. In the present work, numerical scheme to solve the hyperbolic telegraph equation was proposed by using difference scheme and approximating the solution. The scheme works in a similar fashion as finite difference methods. The results of numerical experiments are presented, and the comparison between analytical and numerical solution of telegraph equation confirmed that the method has the good accuracy, also the method was supported by high quality graphs by matlab.

Keywords: Numerical solution, Difference scheme, Matlab program, Telegraph equations.

References

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Beginning Partial Differential Equations Peter V. O'Neil, 2014-04-07 A broad introduction to PDEs with an emphasis on specialized topics and applications occurring in a variety of fields Featuring a thoroughly revised presentation of topics Beginning Partial Differential Equations Third Edition provides a challenging yet accessible combination of techniques applications and introductory theory on the subject of partial differential equations The new edition offers nonstandard coverage on material including Burger's equation the telegraph equation damped wave motion and the use of characteristics to solve nonhomogeneous problems The Third Edition is organized around four themes methods of solution for initial boundary value problems applications of partial differential equations existence and properties of solutions and the use of software to experiment with graphics and carry out computations With a primary focus on wave and diffusion processes Beginning Partial Differential Equations Third Edition also includes Proofs of theorems incorporated within the topical presentation such as the existence of a solution for the Dirichlet problem The incorporation of MapleTM to perform computations and experiments Unusual applications such as Poisson's pendulum Advanced topical coverage of special functions such as Bessel Legendre polynomials and spherical harmonics Fourier and Laplace transform techniques to solve important problems Beginning of Partial Differential Equations Third Edition is an ideal textbook for upper undergraduate and first year graduate level courses in analysis and applied mathematics science and engineering

Fractional-order Modeling of Nuclear Reactor: From Subdiffusive Neutron Transport to Control-oriented Models Vishwesh Vyawahare, Paluri S. V. Nataraj, 2018-02-03 This book addresses the topic of fractional order modeling of nuclear reactors Approaching neutron transport in the reactor core as anomalous diffusion specifically subdiffusion it starts with the development of fractional order neutron telegraph equations Using a systematic approach the book then examines the development and analysis of various fractional order models representing nuclear reactor dynamics ultimately leading to the fractional order linear and nonlinear control oriented models The book utilizes the mathematical tool of fractional calculus the calculus of derivatives and integrals with arbitrary non integer orders real or complex which has recently been found to provide a more compact and realistic representation to the dynamics of diverse physical systems Including extensive simulation results and discussing important issues related to the fractional order modeling of nuclear reactors the book offers a valuable resource for students and researchers working in the areas of fractional order modeling and control and nuclear reactor modeling

New Insights into High-Energy Processes on the Sun and Their Geospace Consequences Xiangliang Kong, Jing Liu, Gang Li, 2025-02-21 The Sun releases an enormous amount of energy during explosive solar activities such as solar flares and coronal mass ejections The solar corona can be heated up to tens of millions of degrees and a large number of charged particles can be accelerated to nearly the speed of light Heated plasmas and high energy particles increase solar radiations across the whole electromagnetic spectrum from radio to gamma ray wavelengths which can have a profound effect on the

Earth's upper atmosphere immediately after about eight minutes. These create additional ionization and heating in the Earth's upper atmosphere leading to radio blackout, GNSS signal interferences and tracking loss, increased drag on spacecraft etc. Recent studies have demonstrated that the effects can extend to the Earth's magnetosphere via electrodynamic coupling. When the high energy particles propagate through the interplanetary medium and arrive at the vicinity of the Earth, known as solar energetic particle (SEP) events, they can pose hazardous radiation threats to astronauts and spacecraft electronics in space.

Delay Ordinary and Partial Differential Equations Andrei D. Polyanin, Vsevolod G. Sorokin, Alexei I. Zhurov, 2023-08-28. *Delay Ordinary and Partial Differential Equations* is devoted to linear and nonlinear ordinary and partial differential equations with constant and variable delay. It considers qualitative features of delay differential equations and formulates typical problem statements. Exact, approximate, analytical and numerical methods for solving such equations are described, including the method of steps, methods of integral transformations, method of regular expansion in a small parameter, method of matched asymptotic expansions, iteration type methods, Adomian decomposition method, collocation method, Galerkin type projection methods, Euler and Runge-Kutta methods, shooting method, method of lines, finite difference methods for PDEs, methods of generalized and functional separation of variables, method of functional constraints, method of generating equations and more. The presentation of the theoretical material is accompanied by examples of the practical application of methods to obtain the desired solutions. Exact solutions are constructed for many nonlinear delay reaction-diffusion and wave-type PDEs that depend on one or more arbitrary functions. A review is given of the most common mathematical models with delay used in population theory, biology, medicine, economics and other applications. The book contains much new material previously unpublished in monographs. It is intended for a broad audience of scientists, university professors and graduate and postgraduate students specializing in applied and computational mathematics, mathematical physics, mechanics, control theory, biology, medicine, chemical technology, ecology, economics and other disciplines. Individual sections of the book and examples are suitable for lecture courses on applied mathematics, mathematical physics and differential equations for delivering special courses and for practical training.

Introduction to Random Signals and Applied Kalman Filtering with Matlab Exercises and Solutions Robert Grover Brown, Patrick Y. C. Hwang, 1997. In this updated edition, the main thrust is on applied Kalman filtering. Chapters 1-3 provide a minimal background in random process theory and the response of linear systems to random inputs. The following chapter is devoted to Wiener filtering and the remainder of the text deals with various facets of Kalman filtering with emphasis on applications. Starred problems at the end of each chapter are computer exercises. The authors believe that programming the equations and analyzing the results of specific examples is the best way to obtain the insight that is essential in engineering work.

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 **Journal of Engineering Education** ,2001

Cornell University Courses of Study Cornell University,2002 *Practical Design of Ships and Mobile Units* Marinus Willem Cornelis Oosterveld,S. G. Tan,1998 These proceedings contain the papers presented at the 7th International Symposium on Practical Design of Ships and Mobile Units The symposium was held at the Congress Centre in The Hague The Netherlands on 20 25 September 1998 The overall aim of PRADS conferences is to advance the design of ships and mobile marine structures through the exchange of knowledge and the promotion of discussions on relevant topics in the fields of naval architecture and marine and offshore engineering Greater international co operation of this kind can help improve design and production methods and so increase the efficiency economy and safety of ships and mobile units The main themes of this symposium are design synthesis production ship hydromechanics ship structures and materials and offshore engineering Some topics which attracted many papers were design loads design for ultimate strength impact of safety and environment grounding and collision resistance and flow seakeeping fatigue considerations and propulsor and propulsion systems **Probability and Random Processes** Donald G. Childers,1997 *Proceedings of the ... Spring Technical Conference of the ASME Internal Combustion Engine Division* American Society of Mechanical Engineers. Internal Combustion Engine Division. Spring Technical Conference,2006 *Space for Our Future* Peter M. Bainum,Arun K. Misra,Yasuhiro Morita,Wang Jia,2013 **Methods of Applied Mathematics with a MATLAB Overview** Jon H. Davis,2004 Broadly organized around the applications of Fourier analysis *Methods of Applied Mathematics with a MATLAB Overview* covers both classical applications in partial differential equations and boundary value problems as well as the concepts and methods associated to the Laplace Fourier and discrete transforms Transform inversion problems are also examined along with the necessary background in complex variables A final chapter treats wavelets short time Fourier analysis and geometrically based transforms The computer program MATLAB is emphasized throughout and an introduction to MATLAB is provided in an appendix Rich in examples illustrations and exercises of varying difficulty this text can be used for a one or two semester course and is ideal for students in pure and applied mathematics physics and engineering **Solving ODEs with MATLAB** L. F. Shampine,I. Gladwell,S. Thompson,2003-04-28 This concise text first published in 2003 is for a one semester course for upper level undergraduates and beginning graduate students in engineering science and mathematics

and can also serve as a quick reference for professionals The major topics in ordinary differential equations initial value problems boundary value problems and delay differential equations are usually taught in three separate semester long courses This single book provides a sound treatment of all three in fewer than 300 pages Each chapter begins with a discussion of the facts of life for the problem mainly by means of examples Numerical methods for the problem are then developed but only those methods most widely used The treatment of each method is brief and technical issues are minimized but all the issues important in practice and for understanding the codes are discussed The last part of each chapter is a tutorial that shows how to solve problems by means of small but realistic examples MATLAB Manual, Ordinary Differential Equations John C. Polking,1995

Introduction to Numerical Ordinary and Partial Differential Equations Using MATLAB Alexander Stanoyevitch,2011-10-14 Calculus and Differential Equations with MATLAB Pramote Dechaumphai,2016-06-30 Calculus and Differential Equations with MATLAB presents a clear easy to understand on how to use MATLAB to solve calculus and differential equation problems The book contains eleven chapters with essential materials that are taught in calculus and differential equation courses These include Limits differentiation and integration Taylor maclaurin and other infinite series Ordinary differential equations Laplace and Fourier transforms Partial differential equations Numerical and finite element methods Special functions error gamma beta Bessel Airy Legendre etc Exact solutions are derived before showing MATLAB commands to provide the same solutions Numerical methods are used to obtain approximate solutions when exact solutions are not available The book contains a large number of examples and homework problems to demonstrate the capability of symbolic mathematics in MATLAB for solving calculus and differential equation problems Applied Numerical Methods Using MATLAB Won Y. Yang,Wenwu Cao,Jaekwon Kim,Kyung W. Park,Ho-Hyun Park,Jingon Joung,Jong-Suk Ro,Han L. Lee,Cheol-Ho Hong,Taeho Im,2020-05-12 This new edition provides an updated approach for students engineers and researchers to apply numerical methods for solving problems using MATLAB This accessible book makes use of MATLAB software to teach the fundamental concepts for applying numerical methods to solve practical engineering and or science problems It presents programs in a complete form so that readers can run them instantly with no programming skill allowing them to focus on understanding the mathematical manipulation process and making interpretations of the results Applied Numerical Methods Using MATLAB Second Edition begins with an introduction to MATLAB usage and computational errors covering everything from input output of data to various kinds of computing errors and on to parameter sharing and passing and more The system of linear equations is covered next followed by a chapter on the interpolation by Lagrange polynomial The next sections look at interpolation and curve fitting nonlinear equations numerical differentiation integration ordinary differential equations and optimization Numerous methods such as the Simpson Euler Heun Runge kutta Golden Search Nelder Mead and more are all covered in those chapters The eighth chapter provides readers with matrices and Eigenvalues and Eigenvectors The book finishes with a complete overview of

differential equations Provides examples and problems of solving electronic circuits and neural networks Includes new sections on adaptive filters recursive least squares estimation Bairstow s method for a polynomial equation and more Explains Mixed Integer Linear Programing MILP and DOA Direction of Arrival estimation with eigenvectors Aimed at students who do not like and or do not have time to derive and prove mathematical results Applied Numerical Methods Using MATLAB Second Edition is an excellent text for students who wish to develop their problem solving capability without being involved in details about the MATLAB codes It will also be useful to those who want to delve deeper into understanding underlying algorithms and equations Periodic Solutions of Nonlinear Telegraph Equations J. Mawhin,1976 **MATLAB Differential Equations** Cesar Lopez,2014-09-22 MATLAB is a high level language and environment for numerical computation visualization and programming Using MATLAB you can analyze data develop algorithms and create models and applications The language tools and built in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages such as C C or Java MATLAB Differential Equations introduces you to the MATLAB language with practical hands on instructions and results allowing you to quickly achieve your goals In addition to giving an introduction to the MATLAB environment and MATLAB programming this book provides all the material needed to work on differential equations using MATLAB It includes techniques for solving ordinary and partial differential equations of various kinds and systems of such equations either symbolically or using numerical methods Euler s method Heun s method the Taylor series method the Runge Kutta method It also describes how to implement mathematical tools such as the Laplace transform orthogonal polynomials and special functions Airy and Bessel functions and find solutions of finite difference equations

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