

NONSTANDARD FINITE DIFFERENCE MODELS OF DIFFERENTIAL EQUATIONS

Ronald E. Mickens



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Nonstandard Finite Difference Models Of Differential Equations

Alexander A. Kokhanovsky



Nonstandard Finite Difference Models Of Differential Equations:

Nonstandard Finite Difference Models of Differential Equations Ronald E. Mickens, 1994 This book provides a clear summary of the work of the author on the construction of nonstandard finite difference schemes for the numerical integration of differential equations The major thrust of the book is to show that discrete models of differential equations exist such that the elementary types of numerical instabilities do not occur A consequence of this result is that in general bigger step sizes can often be used in actual calculations and or finite difference schemes can be constructed that are conditionally stable in many instances whereas in using standard techniques no such schemes exist The theoretical basis of this work is centered on the concepts of exact and best finite difference schemes In addition a set of rules is given for the discrete modeling of derivatives and nonlinear expressions that occur in differential equations These rules often lead to a unique nonstandard finite difference model for a given differential equation *Nonstandard Finite Difference Schemes: Methodology And Applications* Ronald E Mickens, 2020-11-11 This second edition of Nonstandard Finite Difference Models of Differential Equations provides an update on the progress made in both the theory and application of the NSFD methodology during the past two and a half decades In addition to discussing details related to the determination of the denominator functions and the nonlocal discrete representations of functions of dependent variables we include many examples illustrating just how this should be done Of real value to the reader is the inclusion of a chapter listing many exact difference schemes and a chapter giving NSFD schemes from the research literature The book emphasizes the critical roles played by the principle of dynamic consistency and the use of sub equations for the construction of valid NSFD discretizations of differential equations Applications Of Nonstandard Finite Difference Schemes Ronald E Mickens, 2000-03-29 The main purpose of this book is to provide a concise introduction to the methods and philosophy of constructing nonstandard finite difference schemes and illustrate how such techniques can be applied to several important problems Chapter 1 gives an overview of the subject and summarizes previous work Chapters 2 and 3 consider in detail the construction and numerical implementation of schemes for physical problems involving convection diffusion reaction equations that arise in groundwater pollution and scattering of electromagnetic waves using Maxwell s equations Chapter 4 examines certain mathematical issues related to the nonstandard discretization of competitive and cooperative models for ecology Chapter 5 discusses exactness stability properties and the symplecticity of various schemes including the conditions for which Runge Kutta methods are exact The application chapters illustrate well the power of nonstandard methods In particular for the same accuracy as obtained by standard techniques larger step sizes can be used This volume will satisfy the needs of scientists engineers and mathematicians who wish to know how to construct nonstandard schemes and see how these are applied to obtain numerical solutions of the differential equations which arise in the study of nonlinear dynamical systems modeling important physical phenomena *Advances In The Applications Of Nonstandard Finite Difference Schemes* Ronald E

Mickens,2005-10-25 This volume provides a concise introduction to the methodology of nonstandard finite difference NSFD schemes construction and shows how they can be applied to the numerical integration of differential equations occurring in the natural biomedical and engineering sciences These methods had their genesis in the work of Mickens in the 1990 s and are now beginning to be widely studied and applied by other researchers The importance of the book derives from its clear and direct explanation of NSFD in the introductory chapter along with a broad discussion of the future directions needed to advance the topic

Mathematical and Numerical Studies of Nonstandard Difference Equation Models of Differential Equations. Final Technical Report, September 1995--September 1997 ,1997 The major thrust of this proposal was to continue our investigations of so called non standard finite difference schemes as formulated by other authors These schemes do not follow the standard rules used to model continuous differential equations by discrete difference equations The two major aspects of this procedure consist of generalizing the definition of the discrete derivative and using a nonlocal model on the computational grid or lattice for nonlinear terms that may occur in the differential equations Our aim was to investigate the construction of nonstandard finite difference schemes for several classes of ordinary and partial differential equations These equations are simple enough to be tractable yet have enough complexity to be both mathematically and scientifically interesting It should be noted that all of these equations differential equations model some physical phenomena under an appropriate set of experimental conditions The major goal of the project was to better understand the process of constructing finite difference models for differential equations In particular it demonstrates the value of using nonstandard finite difference procedures A secondary goal was to construct and study a variety of analytical techniques that can be used to investigate the mathematical properties of the obtained difference equations These mathematical procedures are of interest in their own right and should be a valuable contribution to the mathematics research literature in difference equations All of the results obtained from the research done under this project have been published in the relevant research technical journals or submitted for publication Our expectation is that these results will lead to improved finite difference schemes for the numerical integration of both ordinary and partial differential equations Section G of the Appendix gives a concise summary of the major results obtained under funding by the grant

Advances in the Applications of Nonstandard Finite Difference Schemes Ronald E. Mickens,2005 This volume provides a concise introduction to the methodology of nonstandard finite difference NSFD schemes construction and shows how they can be applied to the numerical integration of differential equations occurring in the natural biomedical and engineering sciences These methods had their genesis in the work of Mickens in the 1990 s and are now beginning to be widely studied and applied by other researchers The importance of the book derives from its clear and direct explanation of NSFD in the introductory chapter along with a broad discussion of the future directions needed to advance the topic Advances in the Applications of Nonstandard Finite Difference Schemes Ronald E. Mickens,2005 This volume provides a concise introduction

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Advanced Numerical Methods for Differential Equations Harendra Singh, Jagdev Singh, Sunil Dutt Purohit, Devendra Kumar, 2021-07-29 Mathematical models are used to convert real life problems using mathematical concepts and language These models are governed by differential equations whose solutions make it easy to understand real life problems and can be applied to engineering and science disciplines This book presents numerical methods for solving various mathematical models This book offers real life applications includes research problems on numerical treatment and shows how to develop the numerical methods for solving problems The book also covers theory and applications in engineering and science Engineers mathematicians scientists and researchers working on real life mathematical problems will find this book useful

Mathematics of Continuous and Discrete Dynamical Systems Abba B. Gumel, 2014-06-18 This volume contains the proceedings of the AMS Special Session on Nonstandard Finite Difference Discretizations and Nonlinear Oscillations in honor of Ronald Mickens s 70th birthday held January 9 10 2013 in San Diego CA Included are papers on design and analysis of discrete time and continuous time dynamical systems arising in the natural and engineering sciences in particular the design of robust nonstandard finite difference methods for solving continuous time ordinary and partial differential equation models the analytical and numerical study of models that undergo nonlinear oscillations as well as the design of deterministic and stochastic models for epidemiological and ecological processes Some of the specific topics covered in the book include the analysis of deterministic and stochastic SIR type models the assessment of cost effectiveness of vaccination problems finite difference methods for oscillatory dynamical systems including the Schr dinger equation and Brusselator system the design of exact and elementary stable finite difference methods the study of a two patch model with Allee effects and disease modified fitness the study of the delay differential equation model with application to circadian rhythm and the application of some special functions in the solutions of some problems arising in the natural and engineering sciences A notable feature of the book is the collection of some relevant open problems intended to help guide the direction of future research in the area

Applications of Nonstandard Finite Difference Schemes Ronald E. Mickens, 2000 The main purpose of this book is to provide a concise introduction to the methods and philosophy of constructing nonstandard finite difference schemes and illustrate how such techniques can be applied to several important problems Chapter I gives an overview of the subject and summarizes previous work Chapters 2 and 3 consider in detail the construction and numerical implementation of schemes for physical problems involving convection diffusion reaction equations that arise in groundwater pollution and scattering of

electromagnetic waves using Maxwell's equations Chapter 4 examines certain mathematical issues related to the nonstandard discretization of competitive and cooperative models for ecology The application chapters illustrate well the power of nonstandard methods In particular for the same accuracy as obtained by standard techniques larger step sizes can be used This volume will satisfy the needs of scientists engineers and mathematicians who wish to know how to construct nonstandard schemes and see how these are applied to obtain numerical solutions of the differential equations which arise in the study of nonlinear dynamical systems modeling important physical phenomena **Fractional Order Systems** Ahmad Taher Azar, Ahmed G. Radwan, Sundarapandian Vaidyanathan, 2018-08-16 Fractional Order Systems Optimization Control Circuit Realizations and Applications consists of 21 contributed chapters by subject experts Chapters offer practical solutions and novel methods for recent research problems in the multidisciplinary applications of fractional order systems such as FPGA circuits memristors control algorithms photovoltaic systems robot manipulators oscillators etc This book is ideal for researchers working in the modeling and applications of both continuous time and discrete time dynamics and chaotic systems Researchers from academia and industry who are working in research areas such as control engineering electrical engineering mechanical engineering computer science and information technology will find the book most informative Discusses multi disciplinary applications with new fundamentals modeling analysis design realization and experimental results Includes new circuits and systems based on the 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 of the applications in the book

Difference Equations and Inequalities Ravi P. Agarwal, 2000-01-27 A study of difference equations and inequalities This second edition offers real world examples and uses of difference equations in probability theory queuing and statistical problems stochastic time series combinatorial analysis number theory geometry electrical networks quanta in radiation genetics economics psychology sociology and Fractional-Order Modeling of Dynamic Systems with Applications in Optimization, Signal Processing, and Control Ahmed G. Radwan, Farooq Ahmad Khanday, Lobna A. Said, 2021-10-22 Fractional order Modelling of Dynamic Systems with Applications in Optimization Signal Processing and Control introduces applications from a design perspective helping readers plan and design their own applications The book includes the different techniques employed to design fractional order systems devices comprehensively and straightforwardly Furthermore mathematics is available in the literature on how to solve fractional order calculus for system applications This book introduces the mathematics that has been employed explicitly for fractional order systems It will prove an excellent material for students and scholars who want to quickly understand the field of fractional order systems and contribute to its different domains and applications Fractional order systems are believed to play an essential role in our day to day activities Therefore several researchers around the globe endeavor to work in the different domains of fractional order systems The efforts include

developing the mathematics to solve fractional order calculus systems and to achieve the feasible designs for various applications of fractional order systems Presents a simple and comprehensive understanding of the field of fractional order systems Offers practical knowledge on the design of fractional order systems for different applications Exposes users to possible new applications for fractional order systems Difference Equations And Discrete Dynamical Systems -

Proceedings Of The 9th International Conference Linda Allen,Bernd Aulbach,Saber N Elaydi,Robert Sacker,2005-10-07

Difference Equations or Discrete Dynamical Systems is a diverse field which impacts almost every branch of pure and applied mathematics Not surprisingly the techniques that are developed vary just as broadly No more so is this variety reflected than at the prestigious annual International Conference on Difference Equations and Applications Organized under the auspices of the International Society of Difference Equations the Conferences have an international attendance and a wide coverage of topics The contributions from the conference collected in this volume invite the mathematical community to see a variety of problems and applications with one ingredient in common the Discrete Dynamical System Readers may also keep abreast of the many novel techniques and developments in the field The special emphasis of the meeting was on mathematical biology and accordingly about half of the articles are in the related areas of mathematical ecology and mathematical medicine

Light Scattering Reviews, Vol. 6 Alexander A. Kokhanovsky,2011-09-22 This is the next volume in series of Light Scattering Reviews Volumes 1 5 have already been printed by Springer The volume is composed of several papers usually 10 of leading researchers in the respective field The main focus of this book is light scattering radiative transfer and optics of snow *Large-Scale Scientific Computing* Ivan Lirkov,Svetozar Margenov,Jerzy Wasniewski,2010-04-23 This book

constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Large Scale Scientific Computations LSSC 2009 held in Sozopol Bulgaria in June 2009 The 93 revised full papers presented together with 5 plenary and invited papers were carefully reviewed and selected from numerous submissions for inclusion in the book The papers are organized in topical sections on multilevel and multiscale preconditioning methods multilevel and multiscale methods for industrial applications environmental modeling control and uncertain systems application of metaheuristics to large scale problems monte carlo methods applications distributed computing grid and scientific and engineering applications reliable numerical methods for differential equations novel applications of optimization ideas to the numerical Solution of PDEs and contributed talks **Applications of Nonlinear Analysis** Themistocles M. Rassias,2018-06-29 New

applications research and fundamental theories in nonlinear analysis are presented in this book Each chapter provides a unique insight into a large domain of research focusing on functional equations stability theory approximation theory inequalities nonlinear functional analysis and calculus of variations with applications to optimization theory Topics include Fixed point theory Fixed circle theory Coupled fixed points Nonlinear duality in Banach spaces Jensen s integral inequality and applications Nonlinear differential equations Nonlinear integro differential equations Quasiconvexity Stability of a

Cauchy Jensen additive mapping Generalizations of metric spaces Hilbert type integral inequality Solitons Quadratic functional equations in fuzzy Banach spaces Asymptotic orbits in Hill problem Time domain electromagnetics Inertial Mann algorithms Mathematical modelling Robotics Graduate students and researchers will find this book helpful in comprehending current applications and developments in mathematical analysis Research scientists and engineers studying essential modern methods and techniques to solve a variety of problems will find this book a valuable source filled with examples that illustrate concepts

Higher-Order FDTD Schemes for Waveguides and Antenna Structures Nikolaos V. Kantartzis, Theodoros D. Tsiboukis, 2022-06-01 This publication provides a comprehensive and systematically organized coverage of higher order finite difference time domain or FDTD schemes demonstrating their potential role as a powerful modeling tool in computational electromagnetics Special emphasis is drawn on the analysis of contemporary waveguide and antenna structures Acknowledged as a significant breakthrough in the evolution of the original Yee's algorithm the higher order FDTD operators remain the subject of an ongoing scientific research Among their indisputable merits one can distinguish the enhanced levels of accuracy even for coarse grid resolutions the fast convergence rates and the adjustable stability In fact as the fabrication standards of modern systems get stricter it is apparent that such properties become very appealing for the accomplishment of elaborate and credible designs

Computational Methods for Biological Models Harendra Singh, Hemen Dutta, 2023-10-04 This book discusses computational methods related to biological models using mathematical tools and techniques The book chapters concentrate on numerical and analytical techniques that provide a global solution for biological models while keeping long term benefits in mind The solutions are useful in closely understanding biological models and the results will be very useful for mathematicians engineers doctors scientists and researchers working on real life biological models This book provides significant and current knowledge of biological models related to real life applications The book covers both methods and applications

Mathematical Studies on Human Disease Dynamics Abba B. Gumel, Carlos Castillo-Chávez, Ronald E. Mickens, Dominic P. Clemence, 2006 This volume contains the proceedings of the AMS SIAM IMS Joint Summer Research Conference on Modeling the Dynamics of Human Diseases Emerging Paradigms and Challenges held in Snowbird Utah July 17-21, 2005 The goal of the conference was to bring together leading and upcoming researchers to discuss the latest advances and challenges associated with the modeling of the dynamics of emerging and re-emerging diseases and to explore various control strategies The articles included in this book are devoted to some of the significant recent advances trends and challenges associated with the mathematical modeling and analysis of the dynamics and control of some diseases of public health importance In addition to illustrating many of the diverse prevailing epidemiological challenges together with the diversity of mathematical approaches needed to address them this book provides insights on a number of topical modeling issues such as the modeling and control of mosquito borne diseases respiratory diseases animal diseases such as foot and mouth disease cancer and tumor growth modeling influenza HIV HPV

rotavirus etc This book also touches upon other important topics such as the use of modeling i

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