

# **Positive Solutions of Differential, Difference and Integral Equations**

**Ravi P. Agarwal, Donal O'Regan and Patricia J.Y. Wong**

**Springer-Science+Business Media, B.V.**

# Positive Solutions Of Differential Difference And Integral Equations

**Johnny Henderson, Rodica Luca**



## **Positive Solutions Of Differential Difference And Integral Equations:**

**Positive Solutions of Differential, Difference and Integral Equations** R.P. Agarwal, Donal O'Regan, Patricia J.Y. Wong, 1998-12-31 In analysing nonlinear phenomena many mathematical models give rise to problems for which only nonnegative solutions make sense In the last few years this discipline has grown dramatically This state of the art volume offers the authors recent work reflecting some of the major advances in the field as well as the diversity of the subject Audience This volume will be of interest to graduate students and researchers in mathematical analysis and its applications whose work involves ordinary differential equations finite differences and integral equations *Infinite Interval Problems for Differential, Difference and Integral Equations* R.P. Agarwal, Donal O'Regan, 2012-12-06 Infinite interval problems abound in nature and yet until now there has been no book dealing with such problems The main reason for this seems to be that until the 1970 s for the infinite interval problem all the theoretical results available required rather technical hypotheses and were applicable only to narrowly defined classes of problems Thus scientists mainly offered and used special devices to construct the numerical solution assuming tacitly the existence of a solution In recent years a mixture of classical analysis and modern fixed point theory has been employed to study the existence of solutions to infinite interval problems This has resulted in widely applicable results This monograph is a cumulation mainly of the authors research over a period of more than ten years and offers easily verifiable existence criteria for differential difference and integral equations over the infinite interval An important feature of this monograph is that we illustrate almost all the results with examples The plan of this monograph is as follows In Chapter 1 we present the existence theory for second order boundary value problems on infinite intervals We begin with several examples which model real world phenomena A brief history of the infinite interval problem is also included We then present general existence results for several different types of boundary value problems Here we note that for the infinite interval problem only two major approaches are available in the literature **Constant-Sign Solutions of Systems of Integral Equations** Ravi P. Agarwal, Donal O'Regan, Patricia J. Y. Wong, 2013-09-21 This monograph provides a complete and self contained account of the theory methods and applications of constant sign solutions of integral equations In particular the focus is on different systems of Volterra and Fredholm equations The presentation is systematic and the material is broken down into several concise chapters An introductory chapter covers the basic preliminaries Throughout the book many examples are included to illustrate the theory The book contains a wealth of results that are both deep and interesting This unique book will be welcomed by mathematicians working on integral equations spectral theory and on applications of fixed point theory and boundary value problems *Differential and Difference Equations with Applications* Sandra Pinelas, Michel Chipot, Zuzana Dosla, 2013-09-21 The volume contains carefully selected papers presented at the International Conference on Differential Difference Equations and Applications held in Ponta Delgada Azores from July 4-8 2011 in honor of Professor Ravi P Agarwal The objective of the gathering was to bring together

researchers in the fields of differential difference equations and to promote the exchange of ideas and research The papers cover all areas of differential and difference equations with a special emphasis on applications **Boundary Value**

**Problems for Systems of Differential, Difference and Fractional Equations** Johnny Henderson, Rodica Luca, 2015-10-30

Boundary Value Problems for Systems of Differential Difference and Fractional Equations Positive Solutions discusses the concept of a differential equation that brings together a set of additional constraints called the boundary conditions As boundary value problems arise in several branches of math given the fact that any physical differential equation will have them this book will provide a timely presentation on the topic Problems involving the wave equation such as the determination of normal modes are often stated as boundary value problems To be useful in applications a boundary value problem should be well posed This means that given the input to the problem there exists a unique solution which depends continuously on the input Much theoretical work in the field of partial differential equations is devoted to proving that boundary value problems arising from scientific and engineering applications are in fact well posed Explains the systems of second order and higher orders differential equations with integral and multi point boundary conditions Discusses second order difference equations with multi point boundary conditions Introduces Riemann Liouville fractional differential equations with uncoupled and coupled integral boundary conditions Impulsive Differential Equations and Inclusions

Mouffak Benchohra, 2006

**Integral Transforms and Operational Calculus** H. M. Srivastava, 2019-11-20 Researches and investigations involving the theory and applications of integral transforms and operational calculus are remarkably wide spread in many diverse areas of the mathematical physical chemical engineering and statistical sciences This Special Issue contains a total of 36 carefully selected and peer reviewed articles which are authored by established researchers from many countries Included in this Special Issue are review expository and original research articles dealing with the recent advances on the topics of integral transforms and operational calculus as well as their multidisciplinary applications **Handbook of**

**Integral Equations** Polyanin Polyanin, Alexander V. Manzhirov, 2008-02-12 Unparalleled in scope compared to the literature currently available the Handbook of Integral Equations Second Edition contains over 2 500 integral equations with solutions as well as analytical and numerical methods for solving linear and nonlinear equations It explores Volterra Fredholm

Wiener Hopf Hammerstein Uryson and other equa

Lyapunov Functionals and Stability of Stochastic Difference Equations

Leonid Shaikhet, 2011-06-02 Hereditary systems or systems with either delay or after effects are widely used to model processes in physics mechanics control economics and biology An important element in their study is their stability Stability conditions for difference equations with delay can be obtained using a Lyapunov functional Lyapunov Functionals and Stability of Stochastic Difference Equations describes a general method of Lyapunov functional construction to investigate the stability of discrete and continuous time stochastic Volterra difference equations The method allows the investigation of the degree to which the stability properties of differential equations are preserved in their difference analogues The text is

self contained beginning with basic definitions and the mathematical fundamentals of Lyapunov functional construction and moving on from particular to general stability results for stochastic difference equations with constant coefficients Results are then discussed for stochastic difference equations of linear nonlinear delayed discrete and continuous types Examples are drawn from a variety of physical systems including inverted pendulum control study of epidemic development Nicholson's blowflies equation and predator prey relationships Lyapunov Functionals and Stability of Stochastic Difference Equations is primarily addressed to experts in stability theory but will also be of use in the work of pure and computational mathematicians and researchers using the ideas of optimal control to study economic mechanical and biological systems

Solvability of Nonlinear Singular Problems for Ordinary Differential Equations Irena Rachunkova, Svatoslav Stanek, Milan Tvrdy, 2009      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 queueing and statistical problems stochastic time series combinatorial analysis number theory geometry electrical networks quanta in radiation genetics economics psychology sociology and      **Advances in Dynamic Equations on Time Scales** Martin Bohner, Allan C. Peterson, 2011-06-28 The development of time scales is still in its infancy yet as inroads are made interest is gathering steam Of a great deal of interest are methods being introduced for dynamic equations on time scales which now explain some discrepancies that have been encountered when results for differential equations and their discrete counterparts have been independently considered The explanations of these seeming discrepancies are incidentally producing unifying results via time scales methods The study of dynamic equations on time scales is a fairly new subject and research in this area is rapidly growing It has been created in order to unify continuous and discrete analysis and it allows a simultaneous treatment of differential and difference equations extending those theories to so called dynamic equations An introduction to this subject is given in Dynamic Equations on Time Scales An Introduction with Applications MARTIN BOHNER and ALLAN PETERSON Birkhauser 2001 86 The current book is designed to supplement this introduction and to offer access to the vast literature that has already emerged in this field It consists of ten chapters written by an international team of 21 experts in their areas thus providing an overview of the recent advances in the theory on time scales We want to emphasize here that this book is not just a collection of papers by different authors      *Hadamard-Type Fractional Differential Equations, Inclusions and Inequalities* Bashir Ahmad, Ahmed Alsaedi, Sotiris K. Ntouyas, Jessada Tariboon, 2017-03-16 This book focuses on the recent development of fractional differential equations integro differential equations and inclusions and inequalities involving the Hadamard derivative and integral Through a comprehensive study based in part on their recent research the authors address the issues related to initial and boundary value problems involving Hadamard type differential equations and inclusions as well as their functional counterparts The book covers fundamental concepts of multivalued analysis and introduces a new class of mixed initial value problems involving the Hadamard

derivative and Riemann Liouville fractional integrals In later chapters the authors discuss nonlinear Langevin equations as well as coupled systems of Langevin equations with fractional integral conditions Focused and thorough this book is a useful resource for readers and researchers interested in the area of fractional calculus

**Nonlinear Analysis and Boundary Value Problems**

Iván Area, Alberto Cabada, José Ángel Cid, Daniel Franco, Eduardo Liz, Rodrigo López Pouso, Rosana Rodríguez-López, 2019-09-19 This book is devoted to Prof Juan J Nieto on the occasion of his 60th birthday Juan Jos Nieto Roig born 1958 A Coruña is a Spanish mathematician who has been a Professor of Mathematical Analysis at the University of Santiago de Compostela since 1991 His most influential contributions to date are in the area of differential equations Nieto received his degree in Mathematics from the University of Santiago de Compostela in 1980 He was then awarded a Fulbright scholarship and moved to the University of Texas at Arlington where he worked with Professor V Lakshmikantham He received his Ph D in Mathematics from the University of Santiago de Compostela in 1983 Nieto's work may be considered to fall within the ambit of differential equations and his research interests include fractional calculus fuzzy equations and epidemiological models He is one of the world's most cited mathematicians according to Web of Knowledge and appears in the Thompson Reuters Highly Cited Researchers list Nieto has also occupied different positions at the University of Santiago de Compostela such as Dean of Mathematics and Director of the Mathematical Institute He has also served as an editor for various mathematical journals and was the editor in chief of the journal Nonlinear Analysis Real World Applications from 2009 to 2012 In 2016 Nieto was admitted as a Fellow of the Royal Galician Academy of Sciences This book consists of contributions presented at the International Conference on Nonlinear Analysis and Boundary Value Problems held in Santiago de Compostela Spain 4th-7th September 2018 Covering a variety of topics linked to Nieto's scientific work ranging from differential difference and fractional equations to epidemiological models and dynamical systems and their applications it is primarily intended for researchers involved in nonlinear analysis and boundary value problems in a broad sense

**Fractional Difference, Differential Equations, and Inclusions** Saïd Abbas, Bashir Ahmad, Mouffak

Benchohra, Abdelkrim Salim, 2024-01-11 The field of fractional calculus FC is more than 300 years old and it presumably stemmed from a question about a fractional order derivative raised in communication between L'Hôpital and Leibniz in the year 1695 This branch of mathematical analysis is regarded as the generalization of classical calculus as it deals with the derivative and integral operators of fractional order The tools of fractional calculus are found to be of great utility in improving the mathematical modeling of many natural phenomena and processes occurring in the areas of engineering social natural and biomedical sciences Fractional Difference Differential Equations and Inclusions Analysis and Stability is devoted to the existence and stability Ulam-Hyers Rassias stability and asymptotic stability of solutions for several classes of functional fractional difference equations and inclusions Some equations include delay effects of finite infinite or state dependent nature Others are subject to impulsive effect which may be fixed or non instantaneous The tools used to establish

the existence results for the proposed problems include fixed point theorems densifiability techniques monotone iterative technique notions of Ulam stability attractivity and the measure of non compactness as well as the measure of weak noncompactness All the abstract results are illustrated by examples in applied mathematics engineering biomedical and other applied sciences Introduces notation definitions and foundational concepts of fractional  $q$  calculus Presents existence and attractivity results for a class of implicit fractional  $q$  difference equations in Banach and Frchet spaces Focuses on the study of a class of coupled systems of Hilfer and Hilfer Hadamard fractional differential equations

**Analysis and Applied Mathematics** Allaberen Ashyralyev, Michael Ruzhansky, Makhmud A. Sadybekov, 2024-08-27 This book presents extended abstracts of the Analysis and Applied Mathematics seminar organized jointly by Bah e ehir University Istanbul Turkey Ghent Analysis PDE Center Ghent University Ghent Belgium and the Institute Mathematics Math Modeling Almaty Kazakhstan The book is of value to professional mathematicians as well as advanced students in the fields of analysis and applied mathematics The goal of the seminar is to provide a forum for researchers and scientists from different regions to communicate their recent developments and to present their original results in various fields of analysis and applied mathematics All of the articles contain new results and are peer reviewed The volume reflects the latest developments in the area of analysis and applied mathematics and their interdisciplinary applications

**Methods of Mathematical Modeling** Hemen Dutta, 2025-08-01 Methods of Mathematical Modeling Advances and Applications delves into recent progress in this field highlighting innovative methods and their uses in different domains This book covers convergence analysis involving nonlinear integral equations and boundary value problems Navier Stokes equations in Sobolev Gevrey spaces magneto hydrodynamics of ternary nanofluids with heat transfer effects vortex nerve complexes in video frame shape approximation hybrid schemes for computing hyperbolic conservation laws and solutions to new fractional differential equations Additionally the book examines dynamics of Leslie Gower type predator prey models and models for the dynamics of generic crop and water availability Readers will find diverse approaches techniques and applications needed for modeling various physical and natural systems Each chapter is self contained encouraging independent study and application of the modeling examples to individual research projects This book serves as a valuable resource for researchers students educators scientists and practitioners involved in different aspects of modeling Provides new mathematical methods and techniques for modeling various physical and natural systems Includes new hybrid computational schemes and procedures for handling wave interactions Includes advanced level convergence analysis and generalized Navier Stokes equations Provides readers with the dynamics of predator prey generic crop and water availability models

**Lyapunov Functionals and Stability of Stochastic Functional Differential Equations** Leonid Shaikhet, 2013-03-29 Stability conditions for functional differential equations can be obtained using Lyapunov functionals Lyapunov Functionals and Stability of Stochastic Functional Differential Equations describes the general method of construction of Lyapunov functionals to investigate the stability of

differential equations with delays This work continues and complements the author's previous book *Lyapunov Functionals and Stability of Stochastic Difference Equations* where this method is described for difference equations with discrete and continuous time The text begins with both a description and a delineation of the peculiarities of deterministic and stochastic functional differential equations There follows basic definitions for stability theory of stochastic hereditary systems and the formal procedure of Lyapunov functionals construction is presented Stability investigation is conducted for stochastic linear and nonlinear differential equations with constant and distributed delays The proposed method is used for stability investigation of different mathematical models such as inverted controlled pendulum Nicholson's blowflies equation predator-prey relationships epidemic development and mathematical models that describe human behaviours related to addictions and obesity *Lyapunov Functionals and Stability of Stochastic Functional Differential Equations* is primarily addressed to experts in stability theory but will also be of interest to professionals and students in pure and computational mathematics physics engineering medicine and biology *Differential Equations with Maxima* Drumi D. Bainov, Snezhana G. Hristova, 2011-04-28 Differential equations with maxima differential equations that contain the maximum of the unknown function over a previous interval adequately model real world processes whose present state significantly depends on the maximum value of the state on a past time interval More and more these equations model and regulate the behavior of various tec **OAR Quarterly**

**Index of Current Research Results** United States. Air Force. Office of Aerospace Research, 1967



## **Positive Solutions Of Differential Difference And Integral Equations** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Positive Solutions Of Differential Difference And Integral Equations**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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