

**Mathematics and Its Applications**

**Ravi P. Agarwal**

**Focal Boundary Value  
Problems for Differential and  
Difference Equations**



# Focal Boundary Value Problems For Differential And Difference Equations

**Dumitru Baleanu**



## **Focal Boundary Value Problems For Differential And Difference Equations:**

*Focal Boundary Value Problems for Differential and Difference Equations* R.P. Agarwal, 2013-03-09 The last fifty years have witnessed several monographs and hundreds of research articles on the theory constructive methods and wide spectrum of applications of boundary value problems for ordinary differential equations In this vast field of research the conjugate Hermite and the right focal point Abei types of problems have received the maximum attention This is largely due to the fact that these types of problems are basic in the sense that the methods employed in their study are easily extendable to other types of problems Moreover the conjugate and the right focal point types of boundary value problems occur frequently in real world problems In the monograph *Boundary Value Problems for Higher Order Differential Equations* published in 1986 we addressed the theory of conjugate boundary value problems At that time the results on right focal point problems were scarce however in the last ten years extensive research has been done In Chapter 1 of the monograph we offer up to date information of this newly developed theory of right focal point boundary value problems Until twenty years ago Difference Equations were considered as the discretizations of the differential equations Further it was tacitly taken for granted that the theories of difference and differential equations are parallel However striking diversities and wide applications reported in the last two decades have made difference equations one of the major areas of research

**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

Advances in Differential and Difference Equations with Applications 2020 Dumitru Baleanu, 2021-01-20 It is very well known that differential equations are related with the rise of physical science in the last several decades and they are used successfully for models of real world problems in a variety of fields from several disciplines Additionally difference equations represent the discrete analogues of differential equations These types of equations started to be used intensively during the last several years for their multiple applications particularly in complex chaotic behavior A certain class of differential and related difference equations is represented by their respective fractional forms which have been utilized to better describe non local phenomena appearing in all branches of science and engineering The purpose of this book is to present some common results given by mathematicians together with physicists engineers as well as other scientists for whom differential and difference equations are valuable research tools The reported results can be used by researchers and academics working in both pure and applied differential equations

*Proceedings of the Conference on Differential & Difference Equations and Applications* Ravi P. Agarwal, Kanishka Perera, 2006

*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 *Positive Solutions of Differential, Difference and Integral Equations* R.P. Agarwal, Donal O'Regan, Patricia J.Y. Wong, 2013-04-17 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 *Inequalities and Applications* Ravi P. Agarwal, 1994 World Scientific Series in Applicable Analysis WSSIAA reports new developments of a high mathematical standard and of current interest Each volume in the series is devoted to mathematical analysis that has been applied or is potentially applicable to the solution of scientific engineering and social problems The third volume of WSSIAA contains 47 research articles on inequalities by leading mathematicians from all over the world and a tribute by R M Redheffer to Wolfgang Walter to whom this volume is dedicated on his 66th birthday Contributors A Acker J D Acz I A Alvino K A Ames Y Avishai C Bandle B M Brown R C Brown D Brydak P S Bullen K Deimling J Diaz Elbert P W Elie L H Erbe H Esser M Ess n W D Evans W N Everitt V Ferone A M Fink R Ger R Girgensohn P Goetgheluck W Haussmann S Heikkil J Henderson G Herzog D B Hinton T Horiuchi S Hu B Kawohl V G Kirby N Kirchhoff G H Knightly H W Knobloch Q Kong H K nig A Kufner M K Kwong A Laforgia V Lakshmikantham S Leela R Lemmert E R Love G L ttgens S Malek R Man sevich J Mawhin R Medina M Migda R J Nessel Z P les N S Papageorgiou L E Payne J Pe ari L E Persson A Peterson M Pinto M Plum J Popenda G Porru R M Redheffer A A Sagle S Saitoh D Sather K Schmitt D F Shea A Simon S Sivasundaram R Sperb C S Stanton G Talenti G Trombetti S Varo anec A S Vatsala P Volkmann H Wang V Weckesser F Zanolin K Zeller A Zettl *Existence Theory for Nonlinear Integral and Integrodifferential Equations* Donal O'Regan, Maria Meehan, 2012-12-06 The theory of integral and integrodifferential equations has ad vanced rapidly over the last twenty years Of course the question of existence is an age old problem of major importance This mono graph is a collection of some of the most advanced results to date in this field The book is organized as follows It is divided into twelve chap ters Each chapter surveys a major area of research Specifically some of the areas considered are Fredholm and Volterra integral and integrodifferential equations resonant and nonresonant problems in tegral inclusions stochastic equations and periodic problems We note that the selected topics reflect the particular interests of the authors Donal O'Regan Maria Meehan CHAPTER 1 INTRODUCTION AND PRELIMINARIES 1 1 Introduction The aim of this book is firstly to provide a comprehensive existence the ory for integral and integrodifferential equations and secondly to present some specialised topics in integral equations which we hope will inspire fur ther research in the area To this end the first part of

the book deals with existence principles and results for nonlinear Fredholm and Volterra integral and integrodifferential equations on compact and half open intervals while selected topics which reflect the particular interests of the authors such as nonresonance and resonance problems equations in Banach spaces inclusions and stochastic equations are presented in the latter part

**Advanced Topics in Difference Equations** R.P. Agarwal, Patricia J.Y. Wong, 2013-04-17 The theory of difference equations the methods used in their solutions and their wide applications have advanced beyond their adolescent stage to occupy a central position in Applicable Analysis In fact in the last five years the proliferation of the subject is witnessed by hundreds of research articles and several monographs two International Conferences and numerous Special Sessions and a new Journal as well as several special issues of existing journals all devoted to the theme of Difference Equations Now even those experts who believe in the universality of differential equations are discovering the sometimes striking divergence between the continuous and the discrete There is no doubt that the theory of difference equations will continue to play an important role in mathematics as a whole In 1992 the first author published a monograph on the subject entitled Difference Equations and Inequalities This book was an in depth survey of the field up to the year of publication Since then the subject has grown to such an extent that it is now quite impossible for a similar survey even to cover just the results obtained in the last four years to be written In the present monograph we have collected some of the results which we have obtained in the last few years as well as some yet unpublished ones

Differential Equations Saber N. Elaydi, 1990-09-28 Reports and expands upon topics discussed at the International Conference on title held in Colorado Springs Colo June 1989 Presents recent advances in control oscillation and stability theories spanning a variety of subfields and covering evolution equations differential inclusions functional

**Recent Trends In Differential Equations** Ravi P Agarwal, 1992-05-07 This series aims at reporting new developments of a high mathematical standard and of current interest Each volume in the series shall be devoted to mathematical analysis that has been applied or potentially applicable to the solutions of scientific engineering and social problems The first volume of WSSIAA contains 42 research articles on differential equations by leading mathematicians from all over the world This volume has been dedicated to V Lakshmikantham on his 65th birthday for his significant contributions in the field of differential equations

Brouwer Degree George Dinca, Jean Mawhin, 2021-05-11 This monograph explores the concept of the Brouwer degree and its continuing impact on the development of important areas of nonlinear analysis The authors define the degree using an analytical approach proposed by Heinz in 1959 and further developed by Mawhin in 2004 linking it to the Kronecker index and employing the language of differential forms The chapters are organized so that they can be approached in various ways depending on the interests of the reader Unifying this structure is the central role the Brouwer degree plays in nonlinear analysis which is illustrated with existence surjectivity and fixed point theorems for nonlinear mappings Special attention is paid to the computation of the degree as well as to the wide array of applications such as linking differential and partial

differential equations difference equations variational and hemivariational inequalities game theory and mechanics Each chapter features bibliographic and historical notes and the final chapter examines the full history Brouwer Degree will serve as an authoritative reference on the topic and will be of interest to professional mathematicians researchers and graduate students

*The Gibbs Phenomenon in Fourier Analysis, Splines and Wavelet Approximations* A.J. Jerri, 1998-08-31 This book represents the first attempt at a unified picture for the presence of the Gibbs or Gibbs Wilbraham phenomenon in applications its analysis and the different methods of filtering it out The analysis and filtering cover the familiar Gibbs phenomenon in Fourier series and integral representations of functions with jump discontinuities In addition it will include other representations such as general orthogonal series expansions general integral transforms splines approximation and continuous as well as discrete wavelet approximations The material in this book is presented in a manner accessible to upperclassmen and graduate students in science and engineering as well as researchers who may face the Gibbs phenomenon in the varied applications that involve the Fourier and the other approximations of functions with jump discontinuities Those with more advanced backgrounds in analysis will find basic material results and motivations from which they can begin to develop deeper and more general results We must emphasize that the aim of this book the first on the subject to satisfy such a diverse audience is quite difficult In particular our detailed derivations and their illustrations for an introductory book may very well sound repetitive to the experts in the field who are expecting a research monograph To answer the concern of the researchers we can only hope that this book will prove helpful as a basic reference for their research papers

*Parametric Lie Group Actions on Global Generalised Solutions of Nonlinear PDEs* Elemer E. Rosinger, 2013-03-09 This book presents global actions of arbitrary Lie groups on large classes of generalised functions by using a novel parametric approach This new method extends and completes earlier results of the author and collaborators in which global Lie group actions on generalised functions were only defined in the case of projectable or fibre preserving Lie group actions The parametric method opens the possibility of dealing with vastly larger classes of Lie semigroup actions which still transform solutions into solutions These Lie semigroups can contain arbitrary noninvertible smooth mappings Thus they cannot be subsemigroups of Lie groups Audience This volume is addressed to graduate students and researchers involved in solving linear and nonlinear partial differential equations and in particular in dealing with the Lie group symmetries of their classical or generalised solutions

**Weakly Nonlocal Solitary Waves and Beyond-All-Orders Asymptotics** John P. Boyd, 2012-12-06 if a physical system is capable of supporting solitary wave motions then such motions will invariably arise from quite general excitations T Maxworthy 1980 pg 52 The discover of nonlocal solitary waves is unknown and anonymous but he or she lived in the dry north of Australia many millenia before the birth of writing There on the shores of the Gulf of Carpentaria vast cylinders of cloud roll from northeast to southwest most mornings Perhaps 300 meters in diameter perhaps 500 meters above the ocean these cylinders of cloud stretch from horizon to horizon As the cloud

evaporates on the trailing edge of the wave and condenses on the leading edge the cylinder appears to roll backwards even as it propagates inland at perhaps 10 20 meters per second Often a whole train of cloud cylinders propagates from Cape Yorke Peninsula across the Gulf towards the southwest across modern Burketown perhaps as much as 500 km inland into the Northern Territory Modern day Australians call it the Morning Glory What the discover called it so many centuries before the invention of hieroglyphics the foundation of Ur and the coronation of the First Dynasty of China we do not know But unless he was very different from us he felt awe Physicists Smith 1988 and Rottman and Einaudi 1 93 have identified the Morning Glory as a solitary wave

Elimination Methods in Polynomial Computer Algebra V. Bykov,A. Kytmanov,M. Lazman,Mikael Passare,2012-12-06 The subject of this book is connected with a new direction in mathematics which has been actively developed over the last few years namely the field of polynomial computer algebra which lies at the intersection point of algebra mathematical analysis and programming There were several incentives to write the book First of all there has lately been a considerable interest in applied nonlinear problems characterized by multiple stationary states Practical needs have then in their turn led to the appearance of new theoretical results in the analysis of systems of nonlinear algebraic equations And finally the introduction of various computer packages for analytic manipulations has made it possible to use complicated elimination theoretical algorithms in practical research The structure of the book is accordingly represented by three main parts Mathematical results driven to constructive algorithms computer algebra realizations of these algorithms and applications Nonlinear systems of algebraic equations arise in diverse fields of science In particular for processes described by systems of differential equations with a polynomial right hand side one is faced with the problem of determining the number and location of the stationary states in certain sets

Introduction to Vertex Operator Superalgebras and Their Modules Xiaoping Xu,2013-03-09 This book presents a systematic study on the structures of vertex operator superalgebras and their modules Related theories of self dual codes and lattices are included as well as recent achievements on classifications of certain simple vertex operator superalgebras and their irreducible twisted modules constructions of simple vertex operator superalgebras from graded associative algebras and their anti involutions self dual codes and lattices Audience This book is of interest to researchers and graduate students in mathematics and mathematical physics

**Advanced Integration Theory** Corneliu Constantinescu,Wolfgang Filter,Karl Weber,2012-12-06 Since about 1915 integration theory has consisted of two separate branches the abstract theory required by probabilists and the theory preferred by analysts that combines integration and topology As long as the underlying topological space is reasonably nice e g locally compact with countable basis the abstract theory and the topological theory yield the same results but for more complicated spaces the topological theory gives stronger results than those provided by the abstract theory The possibility of resolving this split fascinated us and it was one of the reasons for writing this book The unification of the abstract theory and the topological theory is achieved by using new definitions in the abstract theory The integral in this book is defined in such

a way that it coincides in the case of Radon measures on Hausdorff spaces with the usual definition in the literature As a consequence our integral can differ in the classical case Our integral however is more inclusive It was defined in the book C Constantinescu and K Weber in collaboration with A **Integration on Infinite-Dimensional Surfaces and Its**

**Applications** A. Uglov, 2013-06-29 It seems hard to believe but mathematicians were not interested in integration problems on infinite dimensional nonlinear structures up to 70s of our century At least the author is not aware of any publication concerning this theme although as early as 1967 L Gross mentioned that the analysis on infinite dimensional manifolds is a field of research with rather rich opportunities in his classical work 2 This prediction was brilliantly confirmed afterwards but we shall return to this later on In those days the integration theory in infinite dimensional linear spaces was essentially developed in the heuristic works of RP Feynman 1 I M Gelfand A M Yaglom 1 The articles of J Eells 1 J Eells and K D Elworthy 1 H H Kuo 1 V Goodman 1 where the contraction of a Gaussian measure on a hypersurface in particular was built and the divergence theorem the Gauss Ostrogradskii formula was proved appeared only in the beginning of the 70s In this case a Gaussian specificity was essential and it was even pointed out in a later monograph of H H Kuo 3 that the surface measure for the non Gaussian case construction problem is not simple and has not yet been solved A V Skorokhod 1 and the author 6 10 offered different approaches to such a construction Some other approaches were offered later by Yu L Daletskii and B D Maryanin 1 O G Smolyanov 6 N V Boolean Valued Analysis A.G. Kusraev, Semën Samsonovich

Kutateladze, 2012-12-06 Boolean valued analysis is a technique for studying properties of an arbitrary mathematical object by comparing its representations in two different set theoretic models whose construction utilises principally distinct Boolean algebras The use of two models for studying a single object is a characteristic of the so called non standard methods of analysis Application of Boolean valued models to problems of analysis rests ultimately on the procedures of ascending and descending the two natural functors acting between a new Boolean valued universe and the von Neumann universe This book demonstrates the main advantages of Boolean valued analysis which provides the tools for transforming for example function spaces to subsets of the reals operators to functionals and vector functions to numerical mappings Boolean valued representations of algebraic systems Banach spaces and involutive algebras are examined thoroughly Audience This volume is intended for classical analysts seeking powerful new tools and for model theorists in search of challenging applications of nonstandard models



## **Focal Boundary Value Problems For Differential And Difference Equations** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Focal Boundary Value Problems For Differential And Difference Equations**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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