# The Strong Nonlinear Limit-Point/Limit-Circle Problem

Miroslav Bartušek John R Graef



# Nonlinear Limit Point Limit Circle Problem

Bashir Ahmad, Johnny L Henderson, Rodica Luca

#### **Nonlinear Limit Point Limit Circle Problem:**

The Nonlinear Limit-Point/Limit-Circle Problem Miroslav Bartusek, Zuzana Došlá, John R. Graef, 2003-12-17 This self contained monograph traces the evolution of the limit point limit circle problem from its 1910 inception in a paper by Hermann Weyl to its modern day extensions to the asymptotic analysis of nonlinear differential equations The authors distill the classical theorems in the linear case and carefully map the progress from linear to nonlinear limit point results The relationship between the limit point limit circle properties and the boundedness oscillation and convergence of solutions is explored and in the final chapter the connection between limit point limit circle problems and spectral theory is examined in detail With over 120 references many open problems and illustrative examples this work will be valuable to graduate students and researchers in differential equations functional analysis operator theory and related fields Nonlinear Limit-point/limit-circle Problem John R Graef, Miroslav Bartusek, 2017-10-06 The limit point limit circle problem had its beginnings more than 100 years ago with the publication of Hermann Weyl's classic paper in Mathematische Annalen in 1910 on linear differential equations This concept was extended to second order nonlinear equations in the late 1970 s and later to higher order nonlinear equations This monograph traces the development of what is known as the strong nonlinear limit point and limit circle properties of solutions In addition to bringing together all such results into one place some new directions that the study has taken as well as some open problems for future research are indicated The Nonlinear Limit-Point/Limit-Circle Problem Miroslav Bartusek, Zuzana Dosla, John R. Graef, 2011-06-27 First posed by Hermann Weyl in 1910 the limit point limit circle problem has inspired over the last century several new developments in the asymptotic analysis of nonlinear differential equations This self contained monograph traces the evolution of this problem from its inception to its modern day extensions to the study of deficiency indices and analogous properties for nonlinear equations The book opens with a discussion of the problem in the linear case as Weyl originally stated it and then proceeds to a generalization for nonlinear higher order equations En route the authors distill the classical theorems for second and higher order linear equations and carefully map the progression to nonlinear limit point results The relationship between the limit point limit circle properties and the boundedness oscillation and convergence of solutions is explored and in the final chapter the connection between limit point limit circle problems and spectral theory is examined in detail With over 120 references many open problems and illustrative examples this work will be valuable to graduate students and researchers in differential equations functional analysis operator theory and related fields Spectral Theory of Differential Operators I.W. Knowles, R.T. Lewis, 1981-01-01 Spectral Theory of Differential Operators **Bulletin of the Belgian Mathematical** Society, Simon Stevin ,2004 Nonlinear Higher Order Differential And Integral Coupled Systems: Impulsive And Integral Equations On Bounded And Unbounded Domains Feliz Manuel Minhos, Robert De Sousa, 2022-04-11 Boundary value problems on bounded or unbounded intervals involving two or more coupled systems of nonlinear differential and

integral equations with full nonlinearities are scarce in the literature The present work by the authors desires to fill this gap The systems covered here include differential and integral equations of Hammerstein type with boundary constraints on bounded or unbounded intervals These are presented in several forms and conditions three points mixed with functional dependence homoclinic and heteroclinic amongst others This would be the first time that differential and integral coupled systems are studied systematically The existence and in some cases the localization of the solutions are carried out in Banach space following several types of arguments and approaches such as Schauder's fixed point theorem or Guo Krasnosel ski fixed point theorem in cones allied to Green's function or its estimates lower and upper solutions convenient truncatures the Nagumo condition presented in different forms the concept of equiconvergence Carath odory functions and sequences Moreover the final part in the volume features some techniques on how to relate differential coupled systems to integral ones which require less regularity Parallel to the theoretical explanation of this work there is a range of practical examples and applications involving real phenomena focusing on physics mechanics biology forestry and dynamical systems which researchers and students will find useful Intermediate Spectral Theory and Quantum Dynamics César R. de Oliveira, 2008-12-30 The spectral theory of linear operators plays a key role in the mathematical formulation of quantum theory This textbook provides a concise and comprehensible introduction to the spectral theory of unbounded self adjoint operators and its application in quantum dynamics Many examples and exercises are included that focus on quantum Issues in Calculus, Mathematical Analysis, and Nonlinear Research: 2013 Edition ,2013-05-01 Issues mechanics in Calculus Mathematical Analysis and Nonlinear Research 2013 Edition is a Scholarly Editions book that delivers timely authoritative and comprehensive information about Mathematical Analysis The editors have built Issues in Calculus Mathematical Analysis and Nonlinear Research 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Mathematical Analysis in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Calculus Mathematical Analysis and Nonlinear Research 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Asymptotic Integration And Stability: For Ordinary, Functional And Discrete Differential Equations Of Fractional Order Dumitru Baleanu, Octavian G Mustafa, 2015-01-15 This volume presents several important and recent contributions to the emerging field of fractional differential equations in a self contained manner It deals with new results on existence uniqueness and multiplicity smoothness asymptotic development and stability of solutions The new topics in the field of fractional calculus include also the Mittag Leffler and Razumikhin stability stability of a class of discrete fractional non autonomous systems asymptotic

integration with a priori given coefficients intervals of disconjugacy non oscillation existence of Lp solutions for various linear and nonlinear fractional differential equations Communications on Applied Nonlinear Analysis, 2008 Versus Deterministic Systems Of Iterative Processes Gangaram S Ladde, Masilamani Sambandham, 2024-04-22 Continuous state dynamic models can be reformulated into discrete state processes. This process generates numerical schemes that lead theoretical iterative schemes This type of method of stochastic modelling generates three basic problems First the fundamental properties of solution namely existence uniqueness measurability continuous dependence on system parameters depend on mode of convergence Second the basic probabilistic and statistical properties namely the behavior of mean variance moments of solutions are described as qualitative quantitative properties of solution process We observe that the nature of probability distribution or density functions possess the qualitative quantitative properties of iterative prosses as a special case Finally deterministic versus stochastic modelling of dynamic processes is to what extent the stochastic mathematical model differs from the corresponding deterministic model in the absence of random disturbances or fluctuations and uncertainties Most literature in this subject was developed in the 1950s and focused on the theory of systems of continuous and discrete time deterministic however continuous time and its approximation schemes of stochastic differential equations faced the solutions outlined above and made slow progress in developing problems This monograph addresses these problems by presenting an account of stochastic versus deterministic issues in discrete state dynamic systems in a systematic and unified way Boundary Value Problems For Fractional Differential Equations And Systems Bashir Ahmad, Johnny L Henderson, Rodica Luca, 2021-02-18 This book is devoted to the study of existence of solutions or positive solutions for various classes of Riemann Liouville and Caputo fractional differential equations and systems of fractional differential equations subject to nonlocal boundary conditions. The monograph draws together many of the authors results that have been obtained and highly cited in the literature in the last four years In each chapter various examples are presented which support the main results The methods used in the proof of these theorems include results from the fixed point theory and fixed point index theory This volume can serve as a good resource for mathematical and scientific researchers and for graduate students in mathematics and science interested in the existence of solutions for fractional differential equations and systems **Ordinary Differential Equations And Boundary Value Problems - Volume I:** Advanced Ordinary Differential Equations John R Graef, Johnny L Henderson, Lingju Kong, Sherry Xueyan Liu, 2018-02-13 The authors give a treatment of the theory of ordinary differential equations ODEs that is excellent for a first course at the graduate level as well as for individual study The reader will find it to be a captivating introduction with a number of non routine exercises dispersed throughout the book The authors begin with a study of initial value problems for systems of differential equations including the Picard and Peano existence theorems The continuability of solutions their continuous dependence on initial conditions and their continuous dependence with respect to parameters are presented in detail This is

followed by a discussion of the differentiability of solutions with respect to initial conditions and with respect to parameters Comparison results and differential inequalities are included as well Linear systems of differential equations are treated in detail as is appropriate for a study of ODEs at this level Just the right amount of basic properties of matrices are introduced to facilitate the observation of matrix systems and especially those with constant coefficients Floquet theory for linear periodic systems is presented and used to analyze nonhomogeneous linear systems Stability theory of first order and vector linear systems are considered. The relationships between stability of solutions uniform stability asymptotic stability uniformly asymptotic stability and strong stability are examined and illustrated with examples as is the stability of vector linear systems The book concludes with a chapter on perturbed systems of ODEs Ordinary Differential Equations And Boundary Value Problems - Volume Ii: Boundary Value Problems John R Graef, Johnny L Henderson, Lingju Kong, Sherry Xueyan Liu, 2018-09-18 The authors give a systematic introduction to boundary value problems BVPs for ordinary differential equations The book is a graduate level text and good to use for individual study With the relaxed style of writing the reader will find it to be an enticing invitation to join this important area of mathematical research Starting with the basics of boundary value problems for ordinary differential equations linear equations and the construction of Green's functions are presented clearly A discussion of the important question of the existence of solutions to both linear and nonlinear problems plays a central role in this volume and this includes solution matching and the comparison of eigenvalues The important and very active research area on existence and multiplicity of positive solutions is treated in detail The last chapter is devoted to nodal solutions for BVPs with separated boundary conditions as well as for non local problems While this Volume II complements it can be used as a stand alone work An Index and Other Useful Information A. Dold, B. Eckmann.2013-12-11 Pacific Journal of Mathematics ,1983 Panamerican Mathematical Journal ,2008

Proceedings of the Japan Academy Nihon Gakushiin,1979 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 Green's Functions and Boundary Value Problems Ivar Stakgold, Michael J. Holst, 2011-02-08 Praise for the Second Edition This book is an excellent introduction to the wide field of boundary value problems Journal of Engineering Mathematics No doubt this textbook will be useful for both students and research workers Mathematical Reviews A new edition of the highly acclaimed guide to boundary value problems now featuring modern computational methods and approximation theory Green's Functions and Boundary Value Problems Third Edition continues

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