Solvability of boundary value problems of nonlinear fractional differential equations

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Abstract

In this paper, we study the existence of multiple positive solutions for the nonlinear fractional differential equation boundary value problem $D_{0^+}^\alpha u(t) + f(t, u(t)) = 0$, $0 < t < 1$, $u(0) = u(1) = u'(0) = 0$, where $2 < \alpha \le 3$ is a real number, $D_{0^+}^\alpha$ is the Riemann-Liouville fractional derivative. By the properties of the Green's function, the lower and upper solution method and the Leggett-Williams fixed point theorem, some new existence criteria are established. As applications, examples are presented to illustrate the main results.

MSC: 34A08; 34B18

Keywords: fractional differential equation; boundary value problem; positive solution; fractional Green's function; fixed point theorem; lower and upper solution method

1 Introduction

Fractional differential equations have been of great interest. It is caused both by the intensive development of the theory of fractional calculus itself and by the applications. Apart from diverse areas of mathematics, fractional differential equations arise in rheology, dynamical processes in self-similar and porous structures, fluid flows, electrical networks, viscoelasticity, chemical physics, and many other branches of science; see [1–5]. Recently, there have appeared some papers dealing with the existence of solutions of fractional differential equations by the use of techniques of nonlinear analysis (fixed point theorems, Leray-Schauder theory, Adomian decomposition method, etc.); see [6–9]. Especially, boundary value problems for fractional differential equations have attracted considerable attention; see [10–31]. As is well known, the aim of finding solutions to boundary value problems is of main importance in various fields of applied mathematics. Recently, there seems to be a new interest in the study of the boundary value problems for fractional differential equations.

Bai and Lü [28] studied the following two-point boundary value problem of fractional differential equations:

$$D_{0^+}^\alpha u(t) + f(t, u(t)) = 0, \quad 0 < t < 1,$$

$$u(0) = u(1) = 0,$$

where $1 < \alpha \le 2$ is a real number and $D_{0^+}^\alpha$ is the standard Riemann-Liouville fractional derivative. They obtained the existence of positive solutions by means of the Krasnosel'skii fixed point theorem and the Leggett-Williams fixed point theorem.

Solvability Of Nonlinear Equations And Boundary Value Problems

M. S. Birman,Nina Nikolaevna Uraltseva

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Solvability of Nonlinear Equations and Boundary Value Problems Svatopluk Fučík,1980 **Solvability of Nonlinear Singular Problems for Ordinary Differential Equations** Irena Rachunkova,Svatoslav Stanek,Milan Tvrdy,2009 *Methods for Analysis of Nonlinear Elliptic Boundary Value Problems* I. V. Skrypnik,1994-01-01 The theory of nonlinear elliptic equations is currently one of the most actively developing branches of the theory of partial differential equations This book investigates boundary value problems for nonlinear elliptic equations of arbitrary order In addition to monotone operator methods a broad range of applications of topological methods to nonlinear differential equations is presented solvability estimation of the number of solutions and the branching of solutions of nonlinear equations Skrypnik establishes by various procedures a priori estimates and the regularity of solutions of nonlinear elliptic equations of arbitrary order Also covered are methods of homogenization of nonlinear elliptic problems in perforated domains The book is suitable for use in graduate courses in differential equations and nonlinear functional analysis Generalized Topological Degree and Semilinear Equations Wolodymyr V. Petryshyn,1995-09-29 This book describes many new results and extensions of the theory of generalized topological degree for densely defined A proper operators and presents important applications particularly to boundary value problems of nonlinear ordinary and partial differential equations that are intractable under any other existing theory A proper mappings arise naturally in the solution to an equation in infinite dimensional space via the finite dimensional approximation The theory subsumes classical theory involving compact vector fields as well as the more recent theories of condensing vector fields strongly monotone and strongly accretive maps Researchers and graduate students in mathematics applied mathematics and physics who make use of nonlinear analysis will find this an important resource for new techniques **Non Linear Analysis and Boundary Value Problems for Ordinary Differential Equations** F. Zanolin,1996-12-02 The area covered by this volume represents a broad choice of some interesting research topics in the field of dynamical systems and applications of nonlinear analysis to ordinary and partial differential equations The contributed papers written by well known specialists make this volume a useful tool both for the experts who can find recent and new results and for those who are interested in starting a research work in one of these topics who can find some updated and carefully presented papers on the state of the art of the corresponding subject Boundary-value Problems with Free Boundaries for Elliptic Systems of Equations Valentin Nikolaevich Monakhov,Lev I͡Akovlevich Leĭfman,1983 This book is concerned with certain classes of nonlinear problems for elliptic systems of partial differential equations boundary value problems with free boundaries The first part has to do with the general theory of boundary value problems for analytic functions and its applications to hydrodynamics The second presents the theory of quasiconformal mappings along with the theory of boundary value problems for elliptic systems of equations and applications of it to problems in the mechanics of continuous media with free boundaries problems in subsonic gas dynamics filtration theory and problems in elastico

plasticity **Approximation-solvability of Nonlinear Functional and Differential Equations** Wolodymyr V. Petryshyn,1992-12-16 This reference text develops a constructive theory of solvability on linear and nonlinear abstract and differential equations involving A proper operator equations in separable Banach spaces and treats the problem of existence of a solution for equations involving pseudo A proper and weakly A proper mappings and illustrates their applications Facilitating the understanding of the solvability of equations in infinite dimensional Banach space through finite dimensional appoximations this book offers an elementary introductions to the general theory of A proper and pseudo A proper maps develops the linear theory of A proper maps furnishes the best possible results for linear equations establishes the existence of fixed points and eigenvalues for P gamma compact maps including classical results provides surjectivity theorems for pseudo A proper and weakly A proper mappings that unify and extend earlier results on monotone and accretive mappings shows how Friedrichs linear extension theory can be generalized to the extensions of densely defined nonlinear operators in a Hilbert space presents the generalized topological degree theory for A proper mappings and applies abstract results to boundary value problems and to bifurcation and asymptotic bifurcation problems There are also over 900 display equations and an appendix that contains basic theorems from real function theory and measure integration theory *Set Valued Mappings with Applications in Nonlinear Analysis* Donal O'Regan,Ravi P. Agarwal,2002-09-26 Interest in the mathematical analysis of multi functions has increased rapidly over the past thirty years partly because of its applications in fields such as biology control theory and optimization economics game theory and physics Set Valued Mappings with Applications to Nonlinear Analysis contains 29 research articles from leading mathematicians in this area The contributors were invited to submit papers on topics such as integral inclusion ordinary and partial differential inclusions fixed point theorems boundary value problems and optimal control This collection will be of interest to researchers in analysis and will pave the way for the creation of new mathematics in the future *On the Solvability of Nonlinear Boundary Value Problems on Time Scales* ,2004 In this manuscript we study boundary value problems on time scales First we will examine weakly nonlinear boundary value problems and analyze problems at resonance that is problems where the homogeneous linear boundary value problem has a nontrivial solution space We establish conditions for the existence of solutions and discuss the dependence of solutions on parameters Next we consider the existence and properties of solutions to nonlinear dynamic equations of the subject to global boundary conditions Our most significant result in this section concerns the existence of solutions of problems where the nonlinearity exhibits sublinear growth Finally we establish sufficient conditions for the solvability of nonlinear scalar two point boundary value problems at resonance As a consequence of our results we are able to provide easily verifiable conditions for the existence of periodic behavior for dynamic equations on time scales **Linear and Quasi-linear Equations of Parabolic Type** Olʹga Aleksandrovna Ladyzhenskai͡a,Vsevolod Alekseevich Solonnikov,Nina N. Uralʹtseva,1968 **Blow-up in Nonlinear Sobolev Type Equations** Alexander B. Al'shin,Maxim O. Korpusov,Alexey G.

Sveshnikov,2011-05-26 The monograph is devoted to the study of initial boundary value problems for multi dimensional Sobolev type equations over bounded domains The authors consider both specific initial boundary value problems and abstract Cauchy problems for first order in the time variable differential equations with nonlinear operator coefficients with respect to spatial variables The main aim of the monograph is to obtain sufficient conditions for global in time solvability to obtain sufficient conditions for blow up of solutions at finite time and to derive upper and lower estimates for the blow up time The abstract results apply to a large variety of problems Thus the well known Benjamin Bona Mahony Burgers equation and Rosenau Burgers equations with sources and many other physical problems are considered as examples Moreover the method proposed for studying blow up phenomena for nonlinear Sobolev type equations is applied to equations which play an important role in physics For instance several examples describe different electrical breakdown mechanisms in crystal semiconductors as well as the breakdown in the presence of sources of free charges in a self consistent electric field The monograph contains a vast list of references 440 items and gives an overall view of the contemporary state of the art of the mathematical modeling of various important problems arising in physics Since the list of references contains many papers which have been published previously only in Russian research journals it may also serve as a guide to the Russian literature

Nonlinear Equations and Spectral Theory M. S. Birman,Nina Nikolaevna Uraltseva,2007   New Trends in Integrability and Partial Solvability A.B. Shabat,A. González-López,M. Mañas,L. Martínez Alonso,M.A. Rodríguez,2012-12-06 Proceedings of the NATO Advanced Research Workshop held in Cadiz Spain from 12 to 16 June 2002   Fixed Points and Nonexpansive Mappings Robert C. Sine,1983   *Solvability, Regularity, and Optimal Control of Boundary Value Problems for PDEs* Pierluigi Colli,Angelo Favini,Elisabetta Rocca,Giulio Schimperna,Jürgen Sprekels,2017-11-03 This volume gathers contributions in the field of partial differential equations with a focus on mathematical models in phase transitions complex fluids and thermomechanics These contributions are dedicated to Professor Gianni Gilardi on the occasion of his 70th birthday It particularly develops the following thematic areas nonlinear dynamic and stationary equations well posedness of initial and boundary value problems for systems of PDEs regularity properties for the solutions optimal control problems and optimality conditions feedback stabilization and stability results Most of the articles are presented in a self contained manner and describe new achievements and or the state of the art in their line of research providing interested readers with an overview of recent advances and future research directions in PDEs   **Proceedings of Symposia in Pure Mathematics** ,1986   Advances in Differential Equations ,1998   **Differential and Integral Equations** ,2003   *Bulletin of the Belgian Mathematical Society, Simon Stevin* ,2008   **Boundary Value Problems for Elliptic Equations and Systems** Guo Chun Wen,Heinrich G. W. Begehr,1990 This monograph mainly deals with several boundary value problems for linear and nonlinear elliptic equations and systems by using function theoretic methods The established theory is systematic the considered equations and systems boundary conditions and domains are rather general Various methods are used As an

application the existence of nonlinear quasiconformal mappings onto canonical domains is proved

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