



Nonlinear integral equations with new admissibility types in b -metric spaces

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Abstract. In this paper, we aim to introduce new types of α -admissibility in the framework of b -metric spaces. Some examples to show the independently of each type of α -admissibility are given. Using these concepts, fixed point theorems satisfying generalized weak contractive condition in the setting of b -metric spaces are established. We furnish an illustrative example to demonstrate the validity of the hypotheses and the degree of utility of our results. As an application, we discuss the existence of a solution for the following nonlinear integral equation:

$$x(c) = \phi(c) + \int_a^b K(c, r, x(r)) dr,$$

where $a, b \in \mathbb{R}$ such that $a < b$, $x \in C[a, b]$ (the set of all continuous functions from $[a, b]$ into \mathbb{R}), $\phi : [a, b] \rightarrow \mathbb{R}$ and $K : [a, b] \times [a, b] \times \mathbb{R} \rightarrow \mathbb{R}$ are given mappings.

Mathematics Subject Classification. 47H09, 47H10.

Keywords. Admissibility types, b -metric spaces, Hölder's inequality, nonlinear integral equations.

1. Introduction and preliminaries

In this section, we recollect some essential notations, required definitions and primary results coherent with the literature. Throughout this paper, we denote by \mathbb{N} , \mathbb{R}_+ and \mathbb{R} the sets of positive integers, nonnegative real numbers and real numbers, respectively.

1.1. Altering distance functions

The classical Banach contraction principle and its applications are well known. In the recent past, many researchers extended this principle by considering relatively more general contractive mappings on various distance spaces such as metric spaces, cone metric spaces [17], complex-valued metric spaces [5], partial metric spaces [21], multiplicative metric spaces [24, 32], etc.

Nonlinear Integral Equations In Abstract Spaces

V. Lakshmikantham, S. Leela



Nonlinear Integral Equations In Abstract Spaces:

Nonlinear Integral Equations in Abstract Spaces Dajun Guo, V. Lakshmikantham, Xinzhi Liu, 2013-11-22 Many problems arising in the physical sciences engineering biology and applied mathematics lead to mathematical models described by nonlinear integral equations in abstract spaces The theory of nonlinear integral equations in abstract spaces is a fast growing field with important applications to a number of areas of analysis as well as other branches of science This book is devoted to a comprehensive treatment of nonlinear integral equations in abstract spaces It is the first book that is dedicated to a systematic development of this subject and it includes the developments during recent years Chapter 1 introduces some basic results in analysis which will be used in later chapters Chapter 2 which is a main portion of this book deals with nonlinear integral equations in Banach spaces including equations of Fredholm type of Volterra type and equations of Hammerstein type Some applications to nonlinear differential equations in Banach spaces are given We also discuss an integral equation modelling infectious disease as a typical application In Chapter 3 we investigate the first order and second order nonlinear integro differential equations in Banach spaces including equations of Volterra type and equations of mixed type Chapter 4 is devoted to nonlinear impulsive integral equations in Banach spaces and their applications to nonlinear impulsive differential equations in Banach spaces

Nonlinear Equations in Abstract Spaces V. Lakshmikantham, 2014-05-27 Many problems in partial differential equations which arise from physical models can be considered as ordinary differential equations in appropriate infinite dimensional spaces for which elegant theories and powerful techniques have recently been developed This book gives a detailed account of the current state of the theory of nonlinear differential equations in a Banach space and discusses existence theory for differential equations with continuous and discontinuous right hand sides Of special importance is the first systematic presentation of the very important and complex theory of multivalued discontinuous differential equations

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Nonlinear Equations in Abstract Spaces Vangipuram Lakshmikantham, 1978

Nonlinear Integral Equations and Inclusions Ravi P. Agarwal, Maria Meehan, Donal O'Regan, 2001

Differential Equations in Abstract Spaces Lakshmikantham, 1972-06-16

Differential Equations in Abstract Spaces *Polynomial Operator Equations in Abstract Spaces and Applications* Ioannis K. Argyros, 2020-10-07 Polynomial operators are a natural generalization of linear operators Equations in such operators are the linear space analog of ordinary polynomials in one or several variables

over the fields of real or complex numbers. Such equations encompass a broad spectrum of applied problems including all linear equations. Often the polynomial nature of many nonlinear problems goes unrecognized by researchers. This is more likely due to the fact that polynomial operators, unlike polynomials in a single variable, have received little attention. Consequently, this comprehensive presentation is needed, benefiting those working in the field as well as those seeking information about specific results or techniques. **Polynomial Operator Equations in Abstract Spaces and Applications**, an outgrowth of fifteen years of the author's research work, presents new and traditional results about polynomial equations as well as analyzes current iterative methods for their numerical solution in various general space settings. Topics include: Special cases of nonlinear operator equations; Solution of polynomial operator equations of positive integer degree n ; Results on global existence theorems not related with contractions; Galois theory; Polynomial integral and polynomial differential equations appearing in radiative transfer, heat transfer, neutron transport, electromechanical networks, elasticity, and other areas; Results on the various Chandrasekhar equations; Weierstrass theorem; Matrix representations; Lagrange and Hermite interpolation; Bounds of polynomial equations in Banach space, Banach algebra, and Hilbert space. The materials discussed can be used for the following studies: Advanced numerical analysis; Numerical functional analysis; Functional analysis;

Approximation theory; Integral and differential equation. **Methods in Nonlinear Integral Equations** R

Precup, 2002-08-31. **Methods in Nonlinear Integral Equations** presents several extremely fruitful methods for the analysis of systems and nonlinear integral equations. They include fixed point methods, the Schauder and Leray-Schauder principles, variational methods, direct variational methods, and mountain pass theorems, and iterative methods, the discrete continuation principle, upper and lower solutions techniques, Newton's method, and the generalized quasilinearization method. Many important applications for several classes of integral equations and, in particular, for initial and boundary value problems are presented to complement the theory. Special attention is paid to the existence and localization of solutions in bounded domains such as balls and order intervals. The presentation is essentially self-contained and leads the reader from classical concepts to current ideas and methods of nonlinear analysis. **Advances in Functional Analysis and Fixed-Point**

Theory Bipan Hazarika, Santanu Acharjee, Dragan S. Djordjević, 2024-04-22. This book presents a curated selection of recent research in functional analysis and fixed point theory, exploring their applications in interdisciplinary fields. The primary objective is to establish a connection between the latest developments in functional analysis and fixed point theory and the broader interdisciplinary research landscape. By doing so, this book aims to address the needs of researchers and experts seeking to stay up to date with the cutting edge research trends in functional analysis, fixed point theory, and related areas. It also aims to pave the way for applying functional analysis and fixed point theory to solve interdisciplinary problems in various domains, including but not limited to fractional calculus, integral equations, queueing theory, convex analysis, harmonic analysis, and wavelet analysis. **Integro-Differential Equations** Mouffak Benchohra, Abdelkrim Salim, Yong Zhou, 2024-08-19. This

book delves into semilinear evolution equations impulsive differential equations and integro differential equations with different types of delay The main objective is to investigate the existence of solutions and explore their approximate controllability complete controllability and attractivity The study involves boundary conditions nonlocal conditions and impulsive conditions The analysis presented in this book goes beyond traditional solutions and encompasses the study of solutions that are asymptotically almost automorphic and integro differential equations with impulsive effects in both bounded and unbounded domains The book also contains applications to nuclear physics elementary particle physics chemical engineering and economics This book is intended for researchers and professionals in the field of mathematics physics and industrial engineering as well as advanced graduate students

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Nonlinear Problems in Abstract Cones Dajun Guo,V. Lakshmikantham,2014-05-10 Notes and Reports in Mathematics in Science and Engineering Volume 5 Nonlinear Problems in Abstract Cones presents the investigation of nonlinear problems in abstract cones This book uses the theory of cones coupled with the fixed point index to investigate positive fixed points of various classes of nonlinear operators Organized into four chapters this volume begins with an overview of the fundamental properties of cones coupled with the fixed point index This text then employs the fixed point theory developed to discuss positive solutions of nonlinear integral equations Other chapters consider several examples from integral and differential equations to illustrate the abstract results This book discusses as well the fixed points of increasing and decreasing operators The final chapter deals with the development of the theory of nonlinear differential equations in cones This book is a valuable resource for graduate students in mathematics Mathematicians and researchers will also find this book useful

Analele științifice ale Universității "Al. I. Cuza" din Iași ,1997 **Dynamic Systems and Applications** ,2005 **MRC Technical Summary Report** Mathematics Research Center (United States. Army),1976 *Reviews in Complex Analysis*, 1980-86 ,1989 **Proceedings of the American Mathematical Society** American Mathematical Society,1975 Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society

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