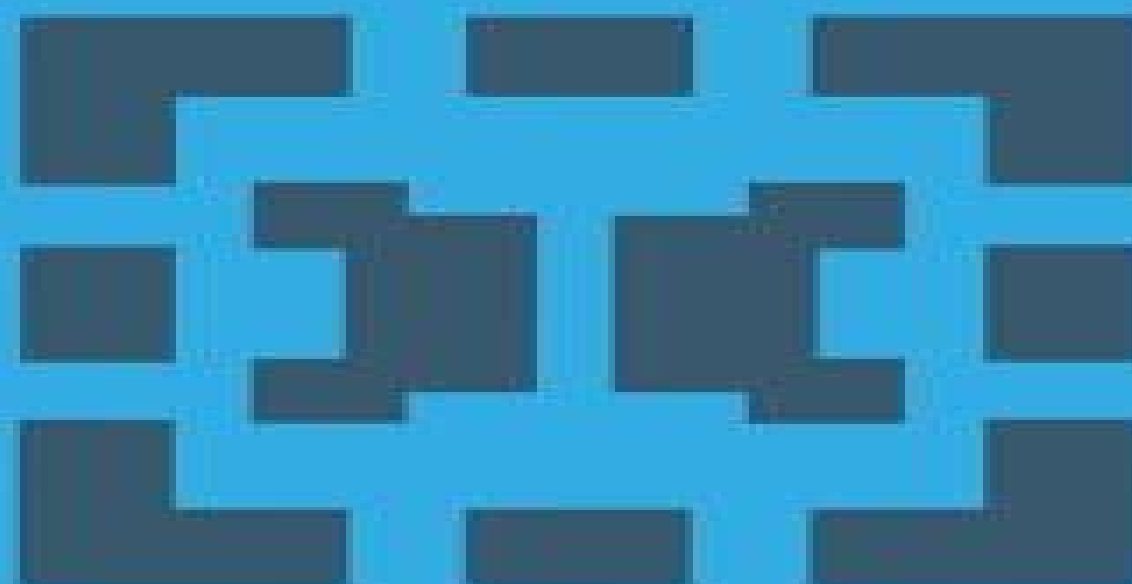


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**Nonlinear Integral
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Nonlinear Integral Equations In Abstract Spaces

Jianjun Gao



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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 **Nonlinear Equations in Abstract Spaces**

Vangipuram Lakshmikantham,1978 **Differential Equations in Abstract Spaces** Lakshmikantham,1972-06-16

Differential Equations in Abstract Spaces Nonlinear Differential Equations in Abstract Spaces V. Lakshmikantham,S. Leela,1981 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 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

Nonlinear Integral Equations and Inclusions Ravi P. Agarwal, Maria Meehan, Donal O'Regan, 2001 Nonlinear Integral Equations Philip M. Anselone, 1964 *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

Inverse Stefan Problems N.L. Gol'dman, 2012-12-06 In this monograph the theory and methods of solving inverse Stefan problems for quasilinear parabolic equations in regions with free boundaries are developed The study of this new class of ill posed problems is motivated by the needs of the modeling and control of nonlinear processes with phase transitions in thermophysics and mechanics of continuous media Inverse Stefan problems are important for the perfection of technologies both in high temperature processes e.g. metallurgy the aircraft industry astronautics and power engineering and in hydrology exploitation of oil gas fields etc The proposed book will complete a gap in these subjects in the preceding researches of ill posed problems It contains the new theoretical and applied studies of a wide class of inverse Stefan problems The statements of such problems on the determination of boundary functions and coefficients of the equation are considered

for different types of additional information about their solution The variational method of obtaining stable approximate solutions is proposed and established It is implemented by an efficient computational scheme of descriptive regularization This algorithm utilizes a priori knowledge of the qualitative structure of the sought solution and ensures a substantial saving in computational costs It is tested on model and applied problems in nonlinear thermophysics In particular the results of calculations for important applications in continuous casting of ingots and in the melting of a plate with the help of laser technology are presented

Research in Progress, 1975 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

Nonautonomous Fractional Evolution Equations Yong Zhou, Jia Wei He, 2024-07-01 Fractional evolution equations describe various complex and nonlocal systems with memory This volume investigates fractional evolution equations in infinite intervals The book covers a range of topics including the existence uniqueness attractivity and applications to fractional diffusion equations and fractional Schrodinger equations Researchers and graduate students in pure and applied mathematics will find this a useful reference

Theory of Fractional Evolution Equations Yong Zhou, Bashir Ahmad, Ahmed Alsaedi, 2022-03-21 Fractional evolution equations provide a unifying framework to investigate wellposedness of complex systems with fractional order derivatives This monograph presents the existence attractivity stability periodic solutions and control theory for time fractional evolution equations The book contains an up to date and comprehensive stuff on the topic

Applied Analysis and Differential Equations Ovidiu Carja, Ioan I. Vrabie, 2007 This volume contains refereed research articles written by experts in the field of applied analysis differential equations and related topics Well known leading mathematicians worldwide and prominent young scientists cover a diverse range of topics including the most exciting recent developments A broad range of topics of recent interest are treated existence uniqueness viability asymptotic stability viscosity solutions controllability and numerical analysis for ODE PDE and

stochastic equations The scope of the book is wide ranging from pure mathematics to various applied fields such as classical mechanics biomedicine and population dynamics Topics in Mathematical Analysis and Applications Themistocles M. Rassias,László Tóth,2014-10-13 This volume presents significant advances in a number of theories and problems of Mathematical Analysis and its applications in disciplines such as Analytic Inequalities Operator Theory Functional Analysis Approximation Theory Functional Equations Differential Equations Wavelets Discrete Mathematics and Mechanics The contributions focus on recent developments and are written by eminent scientists from the international mathematical community Special emphasis is given to new results that have been obtained in the above mentioned disciplines in which Nonlinear Analysis plays a central role Some review papers published in this volume will be particularly useful for a broader readership in Mathematical Analysis as well as for graduate students An attempt is given to present all subjects in this volume in a unified and self contained manner to be particularly useful to the mathematical community **Advanced Topics On Semilinear Evolution Equations** Mouffak Benchohra,Gaston Mandata N'guerekata,Abdelkrim Salim,2025-01-07 Differential evolution equations serve as mathematical representations that capture the progression or transformation of functions or systems as time passes Currently differential equations continue to be an active and thriving area of study with continuous advancements in mathematical methodologies and their practical applications spanning diverse fields such as physics engineering and economics In the late 20th century the notion of Differential Evolution Equations emerged as a distinct field applied to optimization and machine learning challenges Evolution equations hold immense importance in numerous realms of applied mathematics and have experienced notable prominence in recent times This book delves into the study of several classes of equations aiming to investigate the existence of mild and periodic mild solutions and their properties such as approximate controllability complete controllability and attractivity under various conditions By examining diverse problems involving second order semilinear evolution equations differential and integro differential equations with state dependent delay random effects and functional differential equations with delay and random effects we hope to contribute to the advancement of mathematical knowledge and provide researchers academicians and students with a solid foundation for further exploration in this field Throughout this book we explore different mathematical frameworks employing Frchet spaces and Banach spaces to provide a comprehensive analysis Our investigation extends beyond traditional solutions encompassing the study of asymptotically almost automorphic mild solutions periodic mild solutions and impulsive integro differential equations These topics shed light on the behavior of equations in both bounded and unbounded domains offering valuable insights into the dynamics of functional evolution equations Advanced Topics in Fractional Differential Equations Mouffak Benchohra,Erdal Karapinar,Jamal Eddine Lazreg,Abdelkrim Salim,2023-05-11 This book explores fractional differential equations with a fixed point approach The authors highlight the existence uniqueness and stability results for various classes of fractional differential equations All of the problems in the book also deal with some

form of the well known Hilfer fractional derivative which unifies the Riemann Liouville and Caputo fractional derivatives Classical and new fixed point theorems associated with the measure of noncompactness in Banach spaces as well as several generalizations of the Gronwall's lemma are employed as tools The book is based on many years of research in this area and provides suggestions for further study as well The authors have included illustrations in order to support the readers understanding of the concepts presented Includes illustrations in order to support readers understanding of the presented concepts Approaches the topic of fractional differential equations while employing fixed point theorems as tools Presents novel results which build upon previous literature and many years of research by the authors

**Analele științifice ale
Universității "Al. I. Cuza" din Iași** Universitatea "Al. I. Cuza" din Iași, 1997 **Recent Advances in Integral Equations**

Francisco Bulnes, 2019-07-24 Integral equations are functional equations in which an unknown function appears under an integral sign This can involve aspects of function theory and their integral transforms when the unknown function appears with a functional non degenerated kernel under the integral sign The close relation between differential and integral equations does that in some functional analysis and function theory problems may be formulated either way This book establishes the fundamentals of integral equations and considers some deep research aspects on integral equations of first and second kind operator theory applied to integral equations methods to solve some nonlinear integral equations and singular integral equations among other things This is the first volume on this theme hoping that other volumes of this important functional analysis theme and operator theory to formal functional equations will be realized in the future

Nonlinear Integral Equations In Abstract Spaces Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nonlinear Integral Equations In Abstract Spaces**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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