

Nonlinear Semigroups and Differential Equations in Banach Spaces

Barbu, V.

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V. Lakshmikantham



Nonlinear Semigroups And Differential Equations In Banach Spaces:

Nonlinear Semigroups and Differential Equations in Banach Spaces Viorel Barbu, 1976-04-06 This book is concerned with nonlinear semigroups of contractions in Banach spaces and their application to the existence theory for differential equations associated with nonlinear dissipative operators. The study of nonlinear semigroups resulted from the examination of nonlinear parabolic equations and from various nonlinear boundary value problems. The first work done by Y. Komura stimulated much further work and interest in this subject. Thus a series of studies was begun and then continued by T. Kato, M. G. Crandall, A. Pazy, H. Brezis and others who made important contributions to the development of the theory. The theory as developed below is a generalisation of the Hille-Yosida theory for one parameter semigroups of linear operators and is a collection of diversified results unified more or less loosely by their methods of approach. This theory is also closely related to the theory of nonlinear monotone operators. Of course not all aspects of this theory could be covered in our exposition and many important contributions to the subject have been excluded for the sake of brevity. We have attempted to present the basic results to the reader and to orient him toward some of the applications. This book is intended to be self-contained. The reader is assumed to have only a basic knowledge of functional analysis, function theory and partial differential equations. Some of the necessary prerequisites for the reading of this book are summarized with or without proof in Chapter I.

Nonlinear semigroups and differential equations in Banach spaces Viorel Barbu, 1976-04-15 This book is concerned with nonlinear semigroups of contractions in Banach spaces and their application to the existence theory for differential equations associated with nonlinear dissipative operators. The study of nonlinear semigroups resulted from the examination of nonlinear parabolic equations and from various nonlinear boundary value problems. The first work done by Y. Komura stimulated much further work and interest in this subject. Thus a series of studies was begun and then continued by T. Kato, M. G. Crandall, A. Pazy, H. Brezis and others who made important contributions to the development of the theory. The theory as developed below is a generalisation of the Hille-Yosida theory for one parameter semigroups of linear operators and is a collection of diversified results unified more or less loosely by their methods of approach. This theory is also closely related to the theory of nonlinear monotone operators. Of course not all aspects of this theory could be covered in our exposition and many important contributions to the subject have been excluded for the sake of brevity. We have attempted to present the basic results to the reader and to orient him toward some of the applications. This book is intended to be self-contained. The reader is assumed to have only a basic knowledge of functional analysis, function theory and partial differential equations. Some of the necessary prerequisites for the reading of this book are summarized with or without proof in Chapter I.

Monotone Operators in Banach Space and Nonlinear Partial Differential Equations R. E. Showalter, 2013-02-22 The objectives of this monograph are to present some topics from the theory of monotone operators and nonlinear semigroup theory which are directly applicable to the existence and uniqueness theory of initial boundary value problems for partial

differential equations and to construct such operators as realizations of those problems in appropriate function spaces A highlight of this presentation is the large number and variety of examples introduced to illustrate the connection between the theory of nonlinear operators and partial differential equations These include primarily semilinear or quasilinear equations of elliptic or of parabolic type degenerate cases with change of type related systems and variational inequalities and spatial boundary conditions of the usual Dirichlet Neumann Robin or dynamic type The discussions of evolution equations include the usual initial value problems as well as periodic or more general nonlocal constraints history value problems those which may change type due to a possibly vanishing coefficient of the time derivative and other implicit evolution equations or systems including hysteresis models The scalar conservation law and semilinear wave equations are briefly mentioned and hyperbolic systems arising from vibrations of elastic plastic rods are developed The origins of a representative sample of such problems are given in the appendix

Nonlinear Functional Evolutions in Banach Spaces

Ki Sik Ha, 2013-04-17 There are many problems in nonlinear partial differential equations with delay which arise from for example physical models biochemical models and social models Some of them can be formulated as nonlinear functional evolutions in infinite dimensional abstract spaces Since Webb 1976 considered autonomous nonlinear functional evolutions in infinite dimensional real Hilbert spaces many nonlinear analysts have studied for the last nearly three decades autonomous nonlinear functional evolutions non autonomous nonlinear functional evolutions and quasi nonlinear functional evolutions in infinite dimensional real Banach spaces The techniques developed for nonlinear evolutions in infinite dimensional real Banach spaces are applied This book gives a detailed account of the recent state of theory of nonlinear functional evolutions associated with accretive operators in infinite dimensional real Banach spaces Existence uniqueness and stability for solutions of nonlinear functional evolutions are considered Solutions are presented by nonlinear semigroups or evolution operators or methods of lines or inequalities by Benilan This book is divided into four chapters Chapter 1 contains some basic concepts and results in the theory of nonlinear operators and nonlinear evolutions in real Banach spaces that play very important roles in the following three chapters Chapter 2 deals with autonomous nonlinear functional evolutions in infinite dimensional real Banach spaces Chapter 3 is devoted to non autonomous nonlinear functional evolutions in infinite dimensional real Banach spaces Finally in Chapter 4 quasi nonlinear functional evolutions are considered in infinite dimensional real Banach spaces

Nonlinear Semigroups Isao Miyadera, This book presents a systematic exposition of the general theory of nonlinear contraction semigroups in Banach spaces and is aimed at students and researchers in science and engineering as well as in mathematics Suitable for use as a textbook in graduate courses and seminars this self contained book is accessible to those with only a basic knowledge of functional analysis After prerequisites presented in the first chapter Miyadera covers the basic properties of dissipative operators and nonlinear contraction semigroups in Banach spaces The generation of nonlinear contraction semigroups the Komura theorem and the Crandall Liggett theorem are explored and there is a treatment of the

convergence of difference approximation of Cauchy problems for dissipative operators and the Kobayashi generation theorem of nonlinear semigroups Nonlinear Semigroups concludes with applications to nonlinear evolution equations and to first order quasilinear equations *Semigroup Theory and Evolution Equations* Philippe Clement, 2023-05-31 Proceedings of the Second International Conference on Trends in Semigroup Theory and Evolution Equations held Sept 1989 Delft University of Technology the Netherlands Papers deal with recent developments in semigroup theory e g positive dual integrated and nonlinear evolution equations e **Nonlinear Functional Analysis and Its Applications, Part 1** Felix E. Browder, 1986 *Nonlinear Differential Equations of Monotone Types in Banach Spaces* Viorel Barbu, 2010-01-01 This monograph is concerned with the basic results on Cauchy problems associated with nonlinear monotone operators in Banach spaces with applications to partial differential equations of evolutive type It focuses on major results in recent decades

Nonlinear Semigroups of Translations in Banach Space Generated by Functional Differential Equations

Andrew T. Plant, Vanderbilt University. Department of Mathematics, 1975 *Monotone Operators in Banach Space and Nonlinear Partial Differential Equations*, 2004 **Nonlinear Phenomena in Mathematical Sciences V.** Lakshmikantham, 2014-05-12 Nonlinear Phenomena in Mathematical Sciences contains the proceedings of an International Conference on Nonlinear Phenomena in Mathematical Sciences held at the University of Texas at Arlington on June 16 20 1980 The papers explore trends in nonlinear phenomena in mathematical sciences with emphasis on nonlinear functional analytic methods and their applications nonlinear wave theory and applications to medical and life sciences In the area of nonlinear functional analytic methods and their applications the following subjects are discussed optimal control theory periodic oscillations of nonlinear mechanical systems Leray Schauder degree theory differential inequalities applied to parabolic and elliptic partial differential equations bifurcation theory stability theory in analytical mechanics singular and ordinary boundary value problems etc The following topics in nonlinear wave theory are considered nonlinear wave propagation in a randomly homogeneous media periodic solutions of a semilinear wave equation asymptotic behavior of solutions of strongly damped nonlinear wave equations shock waves and dissipation theoretical methods for a nonlinear Schrödinger equation and nonlinear hyperbolic Volterra equations occurring in viscoelasticity Applications to medical and life sciences include mathematical modeling in physiology pharmacokinetics and neuro mathematics along with epidemic modeling and parameter estimation techniques This book will be helpful to students practitioners and researchers in the field of mathematics **semigroup theory and applications** Clement, 2020-12-22 This book contains articles on maximal regulatory problems interpolation spaces multiplicative perturbations of generators linear and nonlinear evolution equations integrodifferential equations dual semigroups positive semigroups applications to control theory and boundary value problems **Differential Equations in Abstract Spaces** Lakshmikantham, 1972-06-16 *Differential Equations in Abstract Spaces* Computation and Applied Mathematics, 1998 Nonlinear Semigroups, Partial Differential Equations and

Attractors T.L. Gill, Woodford W. Zachary, 2006-11-15 The original idea of the organizers of the Washington Symposium was to span a fairly narrow range of topics on some recent techniques developed for the investigation of nonlinear partial differential equations and discuss these in a forum of experts. It soon became clear however that the dynamical systems approach interfaced significantly with many important branches of applied mathematics. As a consequence the scope of this resulting proceedings volume is an enlarged one with coverage of a wider range of research topics. Handbook of Multivalued Analysis Shouchuan Hu, Nikolaos S. Papageorgiou, 2013-11-21 In volume I we developed the tools of Multivalued Analysis. In this volume we examine the applications. After all the initial impetus for the development of the theory of set valued functions came from its applications in areas such as control theory and mathematical economics. In fact the needs of control theory in particular the study of systems with a priori feedback led to the systematic investigation of differential equations with a multi valued vector field differential inclusions. For this reason we start this volume with three chapters devoted to set valued differential equations. However in contrast to the existing books on the subject i.e. J.P. Aubin *A Cellina Differential Inclusions* Springer Verlag 1983 and Deimling *Multivalued Differential Equations* W. De Gruyter 1992 here we focus on Evolution Inclusions which are evolution equations with multi valued terms. Evolution equations were raised to prominence with the development of the linear semigroup theory by Hille and Yosida initially with subsequent important contributions by Kato, Phillips and Lions. This theory allowed a successful unified treatment of some apparently different classes of nonstationary linear partial differential equations and linear functional equations. The needs of dealing with applied problems and the natural tendency to extend the linear theory to the nonlinear case led to the development of the nonlinear semigroup theory which became a very effective tool in the analysis of broad classes of nonlinear evolution equations. **Theory and Applications of Nonlinear Operators of Accretive and Monotone Type** Athanassios Kartsatos, 1996-03-14 This work is based upon a Special Session on the Theory and Applications of Nonlinear Operators of Accretive and Monotone Type held during the recent meeting of the American Mathematical Society in San Francisco. It examines current developments in nonlinear analysis emphasizing accretive and monotone operator theory. The book presents a major survey research article on partial functional differential equations with delay and an important survey research article on approximation solvability. *Stochastic Processes and Functional Analysis* Jerome Goldstein, Neil G. J. G. Greksky, John Uhl, 2020-09-23 Covers the areas of modern analysis and probability theory. Presents a collection of papers given at the Festschrift held in honor of the 65 birthday of M. M. Rao whose prolific published research includes the well received Marcel Dekker Inc books *Theory of Orlicz Spaces* and *Conditional Measures and Applications*. Features previously unpublished research articles by a host of internationally recognized scholars. **Nonlocal Diffusion Problems** Fuensanta Andreu-Vaillo, 2010 Nonlocal diffusion problems arise in a wide variety of applications including biology, image processing, particle systems, coagulation models and mathematical finance. These types of problems are also of great interest for their

purely mathematical content This book presents recent results on nonlocal evolution equations with different boundary conditions starting with the linear theory and moving to nonlinear cases including two nonlocal models for the evolution of sandpiles Both existence and uniqueness of solutions are considered as well as their asymptotic behaviour Moreover the authors present results concerning limits of solutions of the nonlocal equations as a rescaling parameter tends to zero With these limit procedures the most frequently used diffusion models are recovered the heat equation the p Laplacian evolution equation the porous media equation the total variation flow a convection diffusion equation and the local models for the evolution of sandpiles due to Aronsson Evans Wu and Prigozhin Readers are assumed to be familiar with the basic concepts and techniques of functional analysis and partial differential equations The text is otherwise self contained with the exposition emphasizing an intuitive understanding and results given with full proofs It is suitable for graduate students or researchers The authors cover a subject that has received a great deal of attention in recent years The book is intended as a reference tool for a general audience in analysis and PDEs including mathematicians engineers physicists biologists and others interested in nonlocal diffusion problems

Nonlinear Systems and Applications V. Lakshmikantham, 2014-05-12
Nonlinear Systems and Applications An International Conference contains the proceedings of an International Conference on Nonlinear Systems and Applications held at the University of Texas at Arlington on July 19 23 1976 The conference provided a forum for reviewing advances in nonlinear systems and their applications and tackled a wide array of topics ranging from abstract evolution equations and nonlinear semigroups to controllability and reachability Various methods used in solving equations are also discussed including approximation techniques for delay systems Most of the applications are in the area of the life sciences Comprised of 59 chapters this book begins with a discussion on monotonically convergent upper and lower bounds for classes of conflicting populations followed by an analysis of constrained problems The reader is then introduced to approximation techniques for delay systems in biological models differential inequalities for Liapunov functions and stability or chaos in discrete epidemic models Subsequent chapters deal with nonlinear boundary value problems for elliptic systems bounds for solutions of reaction diffusion equations monotonicity and measurability and periodic solutions of some integral equations from the theory of epidemics This monograph will be helpful to students practitioners and researchers in the field of mathematics

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Table of Contents Nonlinear Semigroups And Differential Equations In Banach Spaces

1. Understanding the eBook Nonlinear Semigroups And Differential Equations In Banach Spaces
 - The Rise of Digital Reading Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Advantages of eBooks Over Traditional Books
2. Identifying Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nonlinear Semigroups And Differential Equations In Banach Spaces
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Personalized Recommendations
 - Nonlinear Semigroups And Differential Equations In Banach Spaces User Reviews and Ratings
 - Nonlinear Semigroups And Differential Equations In Banach Spaces and Bestseller Lists
5. Accessing Nonlinear Semigroups And Differential Equations In Banach Spaces Free and Paid eBooks
 - Nonlinear Semigroups And Differential Equations In Banach Spaces Public Domain eBooks
 - Nonlinear Semigroups And Differential Equations In Banach Spaces eBook Subscription Services
 - Nonlinear Semigroups And Differential Equations In Banach Spaces Budget-Friendly Options

6. Navigating Nonlinear Semigroups And Differential Equations In Banach Spaces eBook Formats
 - ePub, PDF, MOBI, and More
 - Nonlinear Semigroups And Differential Equations In Banach Spaces Compatibility with Devices
 - Nonlinear Semigroups And Differential Equations In Banach Spaces Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Highlighting and Note-Taking Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Interactive Elements Nonlinear Semigroups And Differential Equations In Banach Spaces
8. Staying Engaged with Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nonlinear Semigroups And Differential Equations In Banach Spaces
9. Balancing eBooks and Physical Books Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nonlinear Semigroups And Differential Equations In Banach Spaces
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Setting Reading Goals Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Fact-Checking eBook Content of Nonlinear Semigroups And Differential Equations In Banach Spaces
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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