One-Parameter Semigroups for Linear Evolution Equations

Klaus-Jochen Engel Rainer Nagel

Springer

Michael Demuth, Bert-Wolfgang Schulze

One-Parameter Semigroups for Linear Evolution Equations Klaus-Jochen Engel, Rainer Nagel, 2006-04-06 This book explores the theory of strongly continuous one parameter semigroups of linear operators A special feature of the text is an unusually wide range of applications such as to ordinary and partial differential operators to delay and Volterra equations and to control theory Also the book places an emphasis on philosophical motivation and the historical background

Semigroup Methods for Evolution Equations on Networks Delio Mugnolo, 2014-05-21 This concise text is based on a series of lectures held only a few years ago and originally intended as an introduction to known results on linear hyperbolic and parabolic equations Yet the topic of differential equations on graphs ramified spaces and more general network like objects has recently gained significant momentum and well beyond the confines of mathematics there is a lively interdisciplinary discourse on all aspects of so called complex networks Such network like structures can be found in virtually all branches of science engineering and the humanities and future research thus calls for solid theoretical foundations This book is specifically devoted to the study of evolution equations i e of time dependent differential equations such as the heat equation the wave equation or the Schr dinger equation guantum graphs bearing in mind that the majority of the literature in the last ten years on the subject of differential equations of graphs has been devoted to elliptic equations and related spectral problems Moreover for tackling the most general settings e g encoded in the transmission conditions in the network nodes one classical and elegant tool is that of operator semigroups This book is simultaneously a very concise introduction to this theory and a handbook on its applications to differential equations on networks With a more interdisciplinary readership in mind full proofs of mathematical statements have been frequently omitted in favor of keeping the text as concise fluid and self contained as possible In addition a brief chapter devoted to the field of neurodynamics of the brain cortex provides a concrete link to ongoing applied research Spaces of Measures and their Applications to Structured Population Models Christian Düll, Piotr Gwiazda, Anna Marciniak-Czochra, Jakub Skrzeczkowski, 2021-10-07 Presents a comprehensive analytical framework for structured population models in spaces of Radon measures and their numerical approximation Banach Spaces Tuomas Hytönen, Jan van Neerven, Mark Veraar, Lutz Weis, 2023-12-07 This third volume of Analysis in Banach Spaces offers a systematic treatment of Banach space valued singular integrals Fourier transforms and function spaces It further develops and ramifies the theory of functional calculus from Volume II and describes applications of these new notions and tools to the problem of maximal regularity of evolution equations The exposition provides a unified treatment of a large body of results much of which has previously only been available in the form of research papers Some of the more classical topics are presented in a novel way using modern techniques amenable to a vector valued treatment Thanks to its accessible style with complete and detailed proofs this book will be an invaluable reference for researchers interested in functional analysis harmonic analysis and the operator theoretic approach to deterministic and stochastic evolution equations

Functional Analysis and Evolution Equations Herbert Amann, Wolfgang Arendt, Frank Neubrander, Serge Nicaise, Joachim Below, 2008-02-28 Gunter Lumer was an outstanding mathematician whose works have great influence on the research community in mathematical analysis and evolution equations He was at the origin of the breath taking development the theory of semigroups saw after the pioneering book of Hille and Phillips from 1957 This volume contains invited contributions presenting the state of the art of these topics and reflecting the broad interests of Gunter Lumer **Evolution Equations** Gisele Ruiz Goldstein, Rainer Nagel, Silvia Romanelli, 2019-04-24 Celebrating the work of renowned mathematician Jerome A Goldstein this reference compiles original research on the theory and application of evolution equations to stochastics physics engineering biology and finance The text explores a wide range of topics in linear and nonlinear semigroup theory operator theory functional analysis and li Theory and Applications of Difference Equations and Discrete Dynamical Systems Ziyad AlSharawi, Jim M. Cushing, Saber Elaydi, 2014-08-22 This volume contains the proceedings of the 19th International Conference on Difference Equations and Applications held at Sultan Qaboos University Muscat Oman in May 2013 The conference brought together experts and novices in the theory and applications of difference equations and discrete dynamical systems The volume features papers in difference equations and discrete time dynamical systems with applications to mathematical sciences and in particular mathematical biology ecology and epidemiology It includes four invited papers and eight contributed papers Topics covered include competitive exclusion through discrete time models Benford solutions of linear difference equations chaos and wild chaos in Lorenz type systems advances in periodic difference equations the periodic decomposition problem dynamic selection systems and replicator equations and asymptotic equivalence of difference equations in Banach Space This book will appeal to researchers scientists and educators who work in the fields of difference equations discrete time dynamical systems and their applications Fractional-in-Time Semilinear Parabolic Equations and Applications Ciprian G. Gal, Mahamadi Warma, 2020-09-23 This book provides a unified analysis and scheme for the existence and uniqueness of strong and mild solutions to certain fractional kinetic equations This class of equations is characterized by the presence of a nonlinear time dependent source generally of arbitrary growth in the unknown function a time derivative in the sense of Caputo and the presence of a large class of diffusion operators The global regularity problem is then treated separately and the analysis is extended to some systems of fractional kinetic equations including prey predator models of Volterra Lotka type and chemical reactions models all of them possibly containing some fractional kinetics Besides classical examples involving the Laplace operator subject to standard namely Dirichlet Neumann Robin dynamic Wentzell and Steklov boundary conditions the framework also includes non standard diffusion operators of fractional type subject to appropriate boundary conditions This book is aimed at graduate students and researchers in mathematics physics mathematical engineering and mathematical biology whose research involves partial differential equations Partial Differential Equations and Applications Toka Diagana, Khalil

Ezzinbi, Stanislas Ouaro, 2023-05-11 This volume convenes selected peer reviewed works presented at the Partial Differential Equations and Applications Colloquium in Honor of Prof Hamidou Toure that was held at the University Ouaga 1 Ouagadougou Burkina Faso November 5 9 2018 Topics covered in this volume include boundary value problems for difference equations differential forms in global analysis functional differential equations and stability in the context of PDEs Studies on SIR and SIRS epidemic models of special interest to researchers in epidemiology are also included This volume is dedicated to Dr Hamidou Tour a Research Professor at the University of Ouaga 1 Dr Tour has made important scientific contributions in many fields of mathematical sciences Dr Tour got his PhD 1994 from the University of Franche Comt of Besan on France and is one of the key leaders and mentor of several generations of mathematicians in French speaking Africa This conference was purposely held in Ouagadougou in reverence of Dr Tour's efforts for the development of mathematics in Africa since the beginning of his career in early 1982 to the current days **Unified Theory for Fractional** and Entire Differential Operators Arnaud Rougirel, 2024-06-27 This monograph proposes a unified theory of the calculus of fractional and standard derivatives by means of an abstract operator theoretic approach By highlighting the axiomatic properties shared by standard derivatives Riemann Liouville and Caputo derivatives the author introduces two new classes of objects The first class concerns differential triplets and differential quadruplets the second concerns boundary restriction operators Instances of boundary restriction operators can be generalized fractional differential operators supplemented with homogeneous boundary conditions The analysis of these operators comprises The computation of adjoint operators The definition of abstract boundary values The solvability of equations supplemented with inhomogeneous abstract linear boundary conditions The analysis of fractional inhomogeneous Dirichlet Problems As a result of this approach two striking consequences are highlighted Riemann Liouville and Caputo operators appear to differ only by their boundary conditions and the boundary values of functions in the domain of fractional operators are closely related to their kernel Unified Theory for Fractional and Entire Differential Operators will appeal to researchers in analysis and those who work with fractional derivatives It is mostly self contained covering the necessary background in functional analysis and fractional calculus

Stabilization of Kelvin-Voigt Damped Systems Kaïs Ammari, Fathi Hassine, 2022-09-20 This monograph examines the stability of various coupled systems with local Kelvin Voigt damping The development of this area is thoroughly reviewed along with the authors contributions New results are featured on the fundamental properties of solutions of linear transmission evolution PDEs involving Kelvin Voigt damping with special emphasis on the asymptotic behavior of these solutions. The vibrations of transmission problems are highlighted as well making this a valuable resource for those studying this active area of research. The book begins with a brief description of the abstract theory of linear evolution equations with a particular focus on semigroup theory. Different types of stability are also introduced along with their connection to resolvent estimates. After this foundation is established different models are presented for uni dimensional and multi

dimensional linear transmission evolution partial differential equations with Kelvin Voigt damping Stabilization of Kelvin Voigt Damped Systems will be a useful reference for researchers in mechanics particularly those interested in the study of control theory of PDEs Analytical Methods for Kolmogorov Equations Luca Lorenzi, 2016-10-04 The second edition of this book has a new title that more accurately reflects the table of contents Over the past few years many new results have been proven in the field of partial differential equations This edition takes those new results into account in particular the study of nonautonomous operators with unbounded coefficients which has received great attention Additionally this edition is Markov Operators, Positive Semigroups the first to use a unified approach to contain the new results in a singular place and Approximation Processes Francesco Altomare, Mirella Cappelletti, Vita Leonessa, Ioan Rasa, 2015-12-18 This research monograph gives a detailed account of a theory which is mainly concerned with certain classes of degenerate differential operators Markov semigroups and approximation processes These mathematical objects are generated by arbitrary Markov operators acting on spaces of continuous functions defined on compact convex sets the study of the interrelations between them constitutes one of the distinguishing features of the book Among other things this theory provides useful tools for studying large classes of initial boundary value evolution problems the main aim being to obtain a constructive approximation to the associated positive C0 semigroups by means of iterates of suitable positive approximating operators As a consequence a qualitative analysis of the solutions to the evolution problems can be efficiently developed. The book is mainly addressed to research mathematicians interested in modern approximation theory by positive linear operators and or in the theory of positive C0 semigroups of operators and evolution equations It could also serve as a textbook for a graduate level course

Partial Differential Equations and Spectral Theory Michael Demuth, Bert-Wolfgang Schulze, 2012-12-06 The intention of the international conference PDE2000 was to bring together specialists from different areas of modern analysis mathematical physics and geometry to discuss not only the recent progress in their own fields but also the interaction between these fields The special topics of the conference were spectral and scattering theory semiclassical and asymptotic analysis pseudodifferential operators and their relation to geometry as well as partial differential operators and their connection to stochastic analysis and to the theory of semigroups The scientific advisory board of the conference in Clausthal consisted of M Ben Artzi Jerusalem Chen Hua Peking M Demuth Clausthal T Ichinose Kanazawa L Rodino Turin B W Schulze Potsdam and J Sj strand Paris The book is aimed at researchers in mathematics and mathematical physics with interests in partial differential equations and all its related fields Stochastic Parameterizing Manifolds and Non-Markovian Reduced Equations Mickaël D. Chekroun, Honghu Liu, Shouhong Wang, 2014-12-23 In this second volume a general approach is developed to provide approximate parameterizations of the small scales by the large ones for a broad class of stochastic partial differential equations SPDEs This is accomplished via the concept of parameterizing manifolds PMs which are stochastic manifolds that improve for a given realization of the noise in mean square error the partial knowledge of the full

SPDE solution when compared to its projection onto some resolved modes Backward forward systems are designed to give access to such PMs in practice The key idea consists of representing the modes with high wave numbers as a pullback limit depending on the time history of the modes with low wave numbers Non Markovian stochastic reduced systems are then derived based on such a PM approach The reduced systems take the form of stochastic differential equations involving random coefficients that convey memory effects The theory is illustrated on a stochastic Burgers type equation Theory of Infinite-Dimensional Systems Joachim Kerner, Hafida Laasri, Delio Mugnolo, 2020-06-25 This book presents novel results by participants of the conference Control theory of infinite dimensional systems that took place in January 2018 at the FernUniversit t in Hagen Topics include well posedness controllability optimal control problems as well as stability of linear and nonlinear systems and are covered by world leading experts in these areas A distinguishing feature of the contributions in this volume is the particular combination of researchers from different fields in mathematics working in an interdisciplinary fashion on joint projects in mathematical system theory More explicitly the fields of partial differential equations semigroup theory mathematical physics graph and network theory as well as numerical analysis are all well Evolutionary Equations Christian Seifert, Sascha Trostorff, Marcus Waurick, 2022-02-02 This open access represented book provides a solution theory for time dependent partial differential equations which classically have not been accessible by a unified method Instead of using sophisticated techniques and methods the approach is elementary in the sense that only Hilbert space methods and some basic theory of complex analysis are required Nevertheless key properties of solutions can be recovered in an elegant manner Moreover the strength of this method is demonstrated by a large variety of examples showing the applicability of the approach of evolutionary equations in various fields Additionally a quantitative theory for evolutionary equations is developed The text is self contained providing an excellent source for a first study on evolutionary equations and a decent guide to the available literature on this subject thus bridging the gap to state of the art mathematical Stochastic Optimal Control in Infinite Dimension Giorgio Fabbri, Fausto Gozzi, Andrzej Święch, 2017-06-22 research Providing an introduction to stochastic optimal control in infinite dimension this book gives a complete account of the theory of second order HJB equations in infinite dimensional Hilbert spaces focusing on its applicability to associated stochastic optimal control problems It features a general introduction to optimal stochastic control including basic results e g the dynamic programming principle with proofs and provides examples of applications A complete and up to date exposition of the existing theory of viscosity solutions and regular solutions of second order HJB equations in Hilbert spaces is given together with an extensive survey of other methods with a full bibliography In particular Chapter 6 written by M Fuhrman and G Tessitore surveys the theory of regular solutions of HJB equations arising in infinite dimensional stochastic control via BSDEs The book is of interest to both pure and applied researchers working in the control theory of stochastic PDEs and in PDEs in infinite dimension Readers from other fields who want to learn the basic theory will also find it useful The

prerequisites are standard functional analysis the theory of semigroups of operators and its use in the study of PDEs some knowledge of the dynamic programming approach to stochastic optimal control problems in finite dimension and the basics of stochastic analysis and stochastic equations in infinite dimensional spaces **Anomalies in Partial Differential** Equations Massimo Cicognani, Daniele Del Santo, Alberto Parmeggiani, Michael Reissig, 2021-02-03 The contributions contained in the volume written by leading experts in their respective fields are expanded versions of talks given at the INDAM Workshop Anomalies in Partial Differential Equations held in September 2019 at the Istituto Nazionale di Alta Matematica Dipartimento di Matematica Guido Castelnuovo Universit di Roma La Sapienza The volume contains results for well posedness and local solvability for linear models with low regular coefficients Moreover nonlinear dispersive models damped waves p evolution models are discussed from the point of view of critical exponents blow up phenomena or decay estimates for Sobolev solutions Some contributions are devoted to models from applications as traffic flows Einstein Euler systems or stochastic PDEs as well Finally several contributions from Harmonic and Time Frequency Analysis in which the authors are interested in the action of localizing operators or the description of wave front sets complete the volume **Introduction to Classical and P-adic Theory of Linear Operators and Applications** Toka Diagana, 2006 This book provides the reader with a self contained treatment of the classical operator theory with significant applications to abstract differential equations and an elegant introduction to basic concepts and methods of the rapidly growing theory of the so called p adic operator theory

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