Zhuangyi Liu
Songmu Zheng

Semigroups associated with dissipative systems

Semigroups Associated With Dissipative Systems

Guenter Leugering,Oleg Imanuvilov,Bing-Yu Zhang,Roberto Triggiani

Semigroups Associated With Dissipative Systems:

Semigroups Associated with Dissipative Systems Z Liu,Songmu Zheng,1999-01-29 Motivated by applications to control theory and to the theory of partial differential equations PDE s the authors examine the exponential stability and analyticity of C0 semigroups associated with various dissipative systems They present a unique systematic approach in which they prove exponential stability by combining a theory from semigroup theory with partial differential equation techniques and use an analogous theorem with PDE techniques to prove analyticity The result is a powerful but simple tool useful in determining whether these properties will preserve for a given dissipative system The authors show that the exponential stability is preserved for all the mechanical systems considered in this book linear one dimensional thermoelastic viscoelastic and thermoviscoelastic systems plus systems with shear or friction damping However readers also learn that this property does not hold true for linear three dimensional systems without making assumptions on the domain and initial data and that analyticity is a more sensitive property not preserved even for some of the systems addressed in this study **Semigroups Associated with Dissipative Systems** Usa) Zhuangyi Liu (University of Minnesota,1998-12-01 Evolution Equations, Semigroups and Functional Analysis Brunello Terreni,2002 Brunello Terreni 1953 2000 was a researcher and teacher with vision and dedication The present volume is dedicated to the memory of Brunello Terreni His mathematical interests are reflected in 20 expository articles written by distinguished mathematicians The unifying theme of the articles is evolution equations and functional analysis which is presented in various and diverse forms parabolic equations semigroups stochastic evolution optimal control existence uniqueness and regularity of solutions inverse problems as well as applications Contributors P Acquistapace V Barbu A Briani L Boccardo P Colli Franzone G Da Prato D Donatelli A Favini M Fuhrmann M Grasselli R Illner H Koch R Labbas H Lange I Lasiecka A Lorenzi A Lunardi P Marcati R Nagel G Nickel V Pata M M Porzio B Ruf G Savar R Schnaubelt E Sinestrari H Tanabe H Teismann E Terraneo R Triggiani A Yagi **Evolution Equations, Semigroups and Functional Analysis** Alfredo Lorenzi,Bernhard Ruf,2012-12-06 Brunello Terreni 1953 2000 was a researcher and teacher with vision and dedication The present volume is dedicated to the memory of Brunello Terreni His mathematical interests are reflected in 20 expository articles written by distinguished mathematicians The unifying theme of the articles is evolution equations and functional analysis which is presented in various and diverse forms parabolic equations semigroups stochastic evolution optimal control existence uniqueness and regularity of solutions inverse problems as well as applications Contributors P Acquistapace V Barbu A Briani L Boccardo P Colli Franzone G Da Prato D Donatelli A Favini M Fuhrmann M Grasselli R Illner H Koch R Labbas H Lange I Lasiecka A Lorenzi A Lunardi P Marcati R Nagel G Nickel V Pata M M Porzio B Ruf G Savar R Schnaubelt E Sinestrari H Tanabe H Teismann E Terraneo R Triggiani A Yagi
A Short Course on Operator Semigroups Klaus-Jochen Engel,Rainer Nagel,2006-10-14 ThetheoryofstronglycontinuoussemigroupsoflinearoperatorsonBanach spaces operator semigroups for short has become an

indispensable tool in a great number of areas of modern mathematical analysis In our Springer Graduate Text EN00 we presented this beautiful theory together with many applications and tried to show the progress made since the pub cation in 1957 of the now classical monograph HP57 by E Hille and R Phillips However the wealth of results exhibited in our Graduate Text seems to have discouraged some of the potentially interested readers With the present text we o er a streamlined version that strictly sticks to the essentials We have skipped certain parts avoided the use of sophisticated arguments and occasionally weakenedtheformulationofresultsandm i ed the proofs However to a large extent this book consists of excerpts taken from our Graduate Text with some new material on positive se groups added in Chapter VI We hope that the present text will help students take their rst step into this interesting and lively research eld On the other side it should provide useful tools for the working mathematician Acknowledgments This book is dedicated to our students Without them we would not be able to do and to enjoy mathematics Many of them read previous versions when it served as the text of our Seventh Internet Seminar 2003 04 Here Genni Fragnelli Marc Preunkert and Mark C Veraar were among the most active readers Particular thanks go to Tanja Eisner Vera Keicher Agnes Radl for proposing considerable improvements in the nal version

Nonlinear Parabolic-Hyperbolic Coupled Systems and Their Attractors Yuming Qin,2008-11-25 This book presents recent results concerning the global existence in time the large time behavior decays of solutions and the existence of global attractors for nonlinear parabolic hyperbolic coupled systems of evolutionary partial differential equations   Boundary Synchronization for Hyperbolic Systems Tatsien Li,Bopeng Rao,2019-12-02 Within this carefully presented monograph the authors extend the universal phenomenon of synchronization from finite dimensional dynamical systems of ordinary differential equations ODEs to infinite dimensional dynamical systems of partial differential equations PDEs By combining synchronization with controllability they introduce the study of synchronization to the field of control and add new perspectives to the investigation of synchronization for systems of PDEs With a focus on synchronization for a coupled system of wave equations the text is divided into three parts corresponding to Dirichlet Neumann and coupled Robin boundary controls Each part is then subdivided into chapters detailing exact boundary synchronization and approximate boundary synchronization respectively The core intention is to give artificial intervention to the evolution of state variables through appropriate boundary controls for realizing the synchronization in a finite time creating a novel viewpoint into the investigation of synchronization for systems of partial differential equations and revealing some essentially dissimilar characteristics from systems of ordinary differential equations Primarily aimed at researchers and graduate students of applied mathematics and applied sciences this text will particularly appeal to those interested in applied PDEs and control theory for distributed parameter systems   *Research in PDEs and Related Fields* Kaïs Ammari,2022-11-07 This volume presents an accessible overview of mathematical control theory and analysis of PDEs providing young researchers a snapshot of these active and rapidly developing areas The chapters are based on two mini courses and additional talks given at the

spring school Trends in PDEs and Related Fields held at the University of Sidi Bel Abb s Algeria from 8 10 April 2019 In addition to providing an in depth summary of these two areas chapters also highlight breakthroughs on more specific topics such as Sobolev spaces and elliptic boundary value problems Local energy solutions of the nonlinear wave equation Geometric control of eigenfunctions of Schr dinger operators Research in PDEs and Related Fields will be a valuable resource to graduate students and more junior members of the research community interested in control theory and analysis of PDEs **Global Well-posedness and Asymptotic Behavior of the Solutions to Non-classical Thermo(visco)elastic Models** Yuming Qin,Zhiyong Ma,2016-07-29 This book presents recent findings on the global existence the uniqueness and the large time behavior of global solutions of thermo vis coelastic systems and related models arising in physics mechanics and materials science such as thermoviscoelastic systems thermoelastic systems of types II and III as well as Timoshenko type systems with past history Part of the book is based on the research conducted by the authors and their collaborators in recent years The book will benefit interested beginners in the field and experts alike **Handbook of Differential Equations: Evolutionary Equations** C.M. Dafermos,Milan Pokorny,2009-04-29 Handbook of Differential Equations Evolutionary Equations is the last text of a five volume reference in mathematics and methodology This volume follows the format set by the preceding volumes presenting numerous contributions that reflect the nature of the area of evolutionary partial differential equations The book is comprised of five chapters that feature the following A thorough discussion of the shallow equations theory which is used as a model for water waves in rivers lakes and oceans It covers the issues of modeling analysis and applications Evaluation of the singular limits of reaction diffusion systems where the reaction is fast compared to the other processes and applications that range from the theory of the evolution of certain biological processes to the phenomena of Turing and cross diffusion instability Detailed discussion of numerous problems arising from nonlinear optics at the high frequency and high intensity regime Geometric and diffractive optics including wave interactions Presentation of the issues of existence blow up and asymptotic stability of solutions from the equations of solutions to the equations of linear and non linear thermoelasticity Answers to questions about unique space such as continuation and backward uniqueness for linear second order parabolic equations Research mathematicians mathematics lecturers and instructors and academic students will find this book invaluable Review of new results in the area Continuation of previous volumes in the handbook series covering evolutionary PDEs New content coverage of DE applications **Delay-Robust Control of Distributed Parameter Systems** Wen Kang,Emilia Fridman,2025-07-23 This monograph examines stability in complex distributed parameter systems using advanced robust control methods It presents Lyapunov based conditions in the form of linear matrix inequalities to establish the stability analysis for the case of constrained control sampled data control event triggered control and disturbance rejection control The book offers innovative strategies to tackle issues related to nonlinearity uncertainties and delays The theoretical contributions of this work are significant providing valuable insights that extend beyond academic

theory into practical engineering applications The methods discussed are poised to influence real world problem solving in this field The insights and methods presented will be invaluable to both researchers and practitioners offering a deeper understanding of the impacts of time delays and advanced control techniques   <u>Vibration Control Methods of Mechanical Distributed Parameter Systems</u> Xueyan Xing,Jinkun Liu,2021-05-18 This book aims at investigating PDE modeling and vibration control of some typical mechanical distributed parameter systems Several control methods are proposed to realize stabilization of the closed loop system with the help of mathematical tools and stability analysis methods Besides some common engineering problems such as input and output constraints are also involved in the control design This book offers a comprehensive introduction of mechanical distributed parameter systems including PDE modeling controller design and stability analysis The related fundamental mathematical tools and analytical approaches involving in the PDE modeling and controller are also provided which broadens its reach to readers   **Mathematical Control of Coupled PDEs** Irena Lasiecka,2002-01-01 Concentrates on systems of hyperbolic and parabolic coupled PDEs that are nonlinear solve three key problems   **Control Theory of Partial Differential Equations** Guenter Leugering,Oleg Imanuvilov,Bing-Yu Zhang,Roberto Triggiani,2005-05-27 The field of control theory in PDEs has broadened considerably as more realistic models have been introduced and investigated This book presents a broad range of recent developments new discoveries and mathematical tools in the field The authors discuss topics such as elasticity thermo elasticity aero elasticity interactions between fluids a   **Control and Observer Design for Nonlinear Finite and Infinite Dimensional Systems** Thomas Meurer,Knut Graichen,Ernst-Dieter Gilles,2005-09-19 This volume presents a well balanced combination of state of the art theoretical results in the field of nonlinear controller and observer design combined with industrial applications stemming from mechatronics electrical bio chemical engineering and fluid dynamics The unique combination of results of finite as well as infinite dimensional systems makes this book a remarkable contribution addressing postgraduates researchers and engineers both at universities and in industry The contributions to this book were presented at the Symposium on Nonlinear Control and Observer Design From Theory to Applications SYNCOD held September 15 16 2005 at the University of Stuttgart Germany The conference and this book are dedicated to the 65th birthday of Prof Dr Ing Dr h c Michael Zeitz to honor his life long research and contributions on the fields of nonlinear control and observer design   **Analytic Inequalities and Their Applications in PDEs** Yuming Qin,2017-02-13 This book presents a number of analytic inequalities and their applications in partial differential equations These include integral inequalities differential inequalities and difference inequalities which play a crucial role in establishing uniform bounds global existence large time behavior decay rates and blow up of solutions to various classes of evolutionary differential equations Summarizing results from a vast number of literature sources such as published papers preprints and books it categorizes inequalities in terms of their different properties   **Multibody System Dynamics, Robotics and Control** Hubert Gattringer,Johannes Gerstmayr,2013-01-06 The volume contains 19 contributions

by international experts in the field of multibody system dynamics robotics and control The book aims to bridge the gap between the modeling of mechanical systems by means of multibody dynamics formulations and robotics In the classical approach a multibody dynamics model contains a very high level of detail however the application of such models to robotics or control is usually limited The papers aim to connect the different scientific communities in multibody dynamics robotics and control Main topics are flexible multibody systems humanoid robots elastic robots nonlinear control optimal path planning and identification **Stabilization of Elastic Systems by Collocated Feedback** Kaïs Ammari,Serge Nicaise,2014-11-03 By introducing a new stabilization methodology this book characterizes the stability of a certain class of systems The stability exponential polynomial or weaker for the closed loop problem is reduced to an observability estimate for the corresponding uncontrolled system combined with a boundedness property of the transfer function of the associated open loop system A similar strategy is applied to systems where a delay term is added The book concludes with many concrete examples This book is addressed to graduate students in mathematics or engineering and also to researchers with an interest in stabilization and control systems governed by partial differential equations Evolution Equations Kaïs Ammari,Stéphane Gerbi,2018 The proceedings of a summer school held in 2015 whose theme was long time behavior and control of evolution equations Proceedings of the Third World Conference on Structural Control Fabio Casciati,2003-03-14 Organized by the International Association for Structural Control IASC and sponsored by the European Association for the Controlof Structures EACS the recent world conference on structuralcontrol 3WCSC brought together engineers scientists architects builders and other practitioners interested in the general fieldsof active hybrid and passive vibration control health monitoringand damage detection intelligent smart materials and systems Applications included buildings bridges space structures andcivil infrastructures under the action of dynamic environments earthquake wind traffic and man made loads It provideda valuable forum for the discussion of the most pressing concernsin structural control and its related topics The conference covered a wide range of topics including activeand semi active control devices passive control devices controlalgorithms for linear and non linear systems modeling andidentification of structural systems sensors health monitoringand damage detection benchmark test of building and bridges innovative materials for structural control applications toaerospace structures applications to bridges applications tocritical structures external dynamic force characteristics andcontrollability issues implications of severe ground motions windforces codes for structural control and so forth Suchcomprehensive treatment of the most innovative developments instructural control will make these volumes an informative referencefor all researchers and engineers interested in this area Proceedings of the US Europe Workshop On Sensors andSmart Structures Technology Como and Somma Lombardo Italy In the last few years significant progress has been made in thearea of sensing technology and structural healthmonitoring condition assessment in the US and Europe Innovativeconcepts involving new hardware algorithms and software have beenproposed There have also been several full

scale trialimplementations of densely sensor instrumented infrastructures andhealth monitoring systems as well as case studies on bridges inEurope and in the US Much can be learnt through US European collaboration in the areaof experimental verification on small medium large and full scaleprojects Moreover a common framework for expanded future jointresearch can be developed on the increased understanding achievedthrough mutual learning This workshop consisted of seminar sessions on several themeswhich included innovative sensing hardware advances in wirelesstechnology and damage detection characterization and conditionassessment methodologies In addition there were several workshopsessions devoted to summarizing the status of the sensors and smartstructures technologies in these topics identifying the compellingresearch issues and formulating an action plan withrecommendations for development and implementation through possiblecollaborative research projects and sharing of scientific data

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