

*Daoming Li
Songmu Deng*

Semigroups associated with dissipative systems

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Semigroups Associated With Dissipative Systems

Kaïs Ammari, Serge Nicaise



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 C_0 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

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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

The theory of strongly continuous semigroups of linear operators on Banach 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 publication 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 offer a streamlined version that strictly sticks to the essentials We have skipped certain parts avoided the use of sophisticated arguments and occasionally weakened the formulation of results and modified the proofs However to a large extent this book consists of excerpts taken from our Graduate Text with some new material on positive semigroups added in Chapter VI We hope that the present text will help students take their first step into this interesting and lively research field 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 final 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 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 Gattlinger, 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

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

Handbook of Differential Equations: Evolutionary Equations C.M. Dafermos, Milan Pokorný, 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

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

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 *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 **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 Differential Equations And Control Theory Sergiu

Aizicovici,Nicolae H. Pavel,2001-10-02 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p adic numbers and related structures Develops a new theory for parabolic equations over non Archimedean fields in relation to Markov processes *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

Stability of Elastic Multi-Link

Structures Kaïs Ammari, Farhat Shel, 2022-01-16 This brief investigates the asymptotic behavior of some PDEs on networks. The structures considered consist of finitely interconnected flexible elements such as strings and beams or combinations thereof distributed along a planar network. Such study is motivated by the need for engineers to eliminate vibrations in some dynamical structures consisting of elastic bodies coupled in the form of chain or graph such as pipelines and bridges. There are other complicated examples in the automotive industry aircraft and space vehicles containing rather than strings and beams plates and shells. These multi body structures are often complicated and the mathematical models describing their evolution are quite complex. For the sake of simplicity this volume considers only 1 d networks.

Evolution Equations in

Thermoelasticity Reinhard Racke, Song Jiang, 2000-06-21 Although the study of classical thermoelasticity has provided information on linear systems only recently have results on the asymptotic behavior completed our basic understanding of the generic behavior of solutions. Through systematic work that began in the 80s we now also understand the basic features of nonlinear systems. Yet some questions remain.

Mathematical Models and Methods for Smart Material

Mauro Fabrizio, 2002 This book contains the papers presented at the conference on OC Mathematical Models and Methods for Smart MaterialsOCO held in Italy in 2001. The papers are divided into four parts. OC Methods in Materials ScienceOCO deals mainly with mathematical techniques for the investigation of physical systems such as liquid crystals materials with internal variables amorphous materials and thermoelastic materials. Also techniques are exhibited for the analysis of stability and controllability of classical models of continuum mechanics and of dynamical systems. OC Modelling of Smart MaterialsOCO is devoted to models of superfluids superconductors materials with memory nonlinear elastic solids and damaged materials. In the elaboration of the models thermodynamic aspects play a central role in the characterization of the constitutive properties. OC Well Posedness in Materials with MemoryOCO deals with existence uniqueness and stability for the solution of problems most often expressed by integrodifferential equations which involve materials with fading memory. Also attention is given to exponential decay in viscoelasticity inverse problems in heat conduction with memory and automatic control for parabolic equations. OC Analytic Problems in Phase TransitionsOCO discusses nonlinear partial differential equations associated with phase transitions and hysteresis possibly involving fading memory effects. Particular applications are developed for the phase field model with memory the Stefan problem with a Cattaneo type equation the hysteresis in thermo visco plasticity and the solid solid phase transition.

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