

# Mathematical Control Theory of Coupled PDEs

MONICA LANDROCKA  
University of Virginia  
Charlottesville, Virginia

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**Keywords:**  
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**Abstract:**  
This chapter discusses the mathematical control theory of coupled PDEs. It covers the basic concepts of stability analysis and the role of the Laplace transform in the study of PDEs.

# Mathematical Control Theory Of Coupled Pdes

**Lingsheng Yao**



## **Mathematical Control Theory Of Coupled Pdes:**

**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 *Geometric Methods in Inverse Problems and PDE Control* Christopher B. Croke, Gunther Uhlmann, Irena Lasiecka, Michael Vogelius, 2012-12-06 This IMA Volume in Mathematics and its Applications GEOMETRIC METHODS IN INVERSE PROBLEMS AND PDE CONTROL contains a selection of articles presented at 2001 IMA Summer Program with the same title We would like to thank Christopher B Croke University of Penn sylv a nia Irena Lasiecka University of Virginia Gunther Uhlmann University of Washington and Michael S Vogelius Rutgers University for their excellent work as organizers of the two week summer workshop and for editing the volume We also take this opportunity to thank the National Science Foundation for their support of the IMA Series Editors Douglas N Arnold Director of the IMA Fadil Santosa Deputy Director of the IMA v PREFACE This volume contains a selected number of articles based on lectures delivered at the IMA 2001 Summer Program on Geometric Methods in Inverse Problems and PDE Control The focus of this program was some common techniques used in the study of inverse coefficient problems and control problems for partial differential equations with particular emphasis on their strong relation to fundamental problems of geometry Inverse coefficient problems for partial differential equations arise in many application areas for instance in medical imaging nondestructive testing and geophysical prospecting Control problems involving partial differential equations may arise from the need to optimize a given performance criterion e g to dampen out undesirable vibrations of a structure or more generally to obtain a prescribed behaviour of the dynamics **Optimal Control of Partial Differential Equations** Fredi Tröltzsch, 2024-03-21 Optimal control theory is concerned with finding control functions that minimize cost functions for systems described by differential equations The methods have found widespread applications in aeronautics mechanical engineering the life sciences and many other disciplines This book focuses on optimal control problems where the state equation is an elliptic or parabolic partial differential equation Included are topics such as the existence of optimal solutions necessary optimality conditions and adjoint equations second order sufficient conditions and main principles of selected numerical techniques It also contains a survey on the Karush Kuhn Tucker theory of nonlinear programming in Banach spaces The exposition begins with control problems with linear equations quadratic cost functions and control constraints To make the book self contained basic facts on weak solutions of elliptic and parabolic equations are introduced Principles of functional analysis are introduced and explained as they are needed Many simple examples illustrate the theory and its hidden difficulties This start to the book makes it fairly self contained and suitable for advanced undergraduates or beginning graduate students Advanced control problems for nonlinear partial differential equations are also discussed As prerequisites results on boundedness and continuity of solutions to semilinear elliptic and parabolic equations are addressed These topics are not yet readily available in books on PDEs making the exposition also interesting

for researchers Alongside the main theme of the analysis of problems of optimal control Tr Itzsch also discusses numerical techniques The exposition is confined to brief introductions into the basic ideas in order to give the reader an impression of how the theory can be realized numerically After reading this book the reader will be familiar with the main principles of the numerical analysis of PDE constrained optimization

**The Cahn–Hilliard Equation: Recent Advances and Applications** Alain Miranville, 2019-09-09 This is the first book to present a detailed discussion of both classical and recent results on the popular Cahn Hilliard equation and some of its variants The focus is on mathematical analysis of Cahn Hilliard models with an emphasis on thermodynamically relevant logarithmic nonlinear terms for which several questions are still open Initially proposed in view of applications to materials science the Cahn Hilliard equation is now applied in many other areas including image processing biology ecology astronomy and chemistry In particular the author addresses applications to image inpainting and tumor growth Many chapters include open problems and directions for future research The Cahn Hilliard Equation Recent Advances and Applications is intended for graduate students and researchers in applied mathematics especially those interested in phase separation models and their generalizations and applications to other fields Materials scientists also will find this text of interest

**Advances in Differential Equations and Mathematical Physics** Yulia E. Karpeshina, 2003 This volume presents the proceedings of the 9th International Conference on Differential Equations and Mathematical Physics It contains 29 research and survey papers contributed by conference participants The conference provided researchers a forum to present and discuss their recent results in a broad range of areas encompassing the theory of differential equations and their applications in mathematical physics Papers in this volume represent some of the most interesting results and the major areas of research that were covered including spectral theory with applications to non relativistic and relativistic quantum mechanics including time dependent and random potential resonances many body systems pseudodifferential operators and quantum dynamics inverse spectral and scattering problems the theory of linear and nonlinear partial differential equations with applications in fluid dynamics conservation laws and numerical simulations as well as equilibrium and nonequilibrium statistical mechanics The volume is intended for graduate students and researchers interested in mathematical physics

**Long-Time Behavior of Second Order Evolution Equations with Nonlinear Damping** Igor Chueshev, Irena Lasiecka, 2008 The authors consider abstract nonlinear second order evolution equations with a nonlinear damping Questions related to long time behavior existence and structure of global attractors are studied Particular emphasis is put on dynamics which in addition to nonlinear dissipation have noncompact semilinear terms and whose energy may not be necessarily decreasing For such systems the authors first develop a general theory at the abstract level They then apply the general theory to nonlinear wave and plate equations exhibiting the aforementioned characteristics and are able to provide new results pertaining to several open problems in the area of structure and properties of global attractors arising in this class of PDE dynamics

**Navier-Stokes Equations and Nonlinear**

**Functional Analysis** Roger Temam, 1995-01-01 This second edition attempts to arrive as simply as possible at some central problems in the Navier Stokes equations

**Computational Methods for Approximation of Large-Scale Dynamical Systems** Mohammad Monir Uddin, 2019-04-30 These days computer based simulation is considered the quintessential approach to exploring new ideas in the different disciplines of science engineering and technology SET To perform simulations a physical system needs to be modeled using mathematics these models are often represented by linear time invariant LTI continuous time CT systems Oftentimes these systems are subject to additional algebraic constraints leading to first or second order differential algebraic equations DAEs otherwise known as descriptor systems Such large scale systems generally lead to massive memory requirements and enormous computational complexity thus restricting frequent simulations which are required by many applications To resolve these complexities the higher dimensional system may be approximated by a substantially lower dimensional one through model order reduction MOR techniques Computational Methods for Approximation of Large Scale Dynamical Systems discusses computational techniques for the MOR of large scale sparse LTI CT systems Although the book puts emphasis on the MOR of descriptor systems it begins by showing and comparing the various MOR techniques for standard systems The book also discusses the low rank alternating direction implicit LR ADI iteration and the issues related to solving the Lyapunov equation of large scale sparse LTI systems to compute the low rank Gramian factors which are important components for implementing the Gramian based MOR Although this book is primarily aimed at post graduate students and researchers of the various SET disciplines the basic contents of this book can be supplemental to the advanced bachelor s level students as well It can also serve as an invaluable reference to researchers working in academics and industries alike Features Provides an up to date step by step guide for its readers Each chapter develops theories and provides necessary algorithms worked examples numerical experiments and related exercises With the combination of this book and its supplementary materials the reader gains a sound understanding of the topic The MATLAB codes for some selected algorithms are provided in the book The solutions to the exercise problems experiment data sets and a digital copy of the software are provided on the book s website The numerical experiments use real world data sets obtained from industries and research institutes

*Numerical Analysis of Spectral Methods* David Gottlieb, Steven A. Orszag, 1977-01-01 A unified discussion of the formulation and analysis of special methods of mixed initial boundary value problems The focus is on the development of a new mathematical theory that explains why and how well spectral methods work Included are interesting extensions of the classical numerical analysis

Nonlocal Modeling, Analysis, and Computation Qiang Du, 2019-03-20 Studies of complexity singularity and anomaly using nonlocal continuum models are steadily gaining popularity This monograph provides an introduction to basic analytical computational and modeling issues and to some of the latest developments in these areas Nonlocal Modeling Analysis and Computation includes motivational examples of nonlocal models basic building blocks of nonlocal vector calculus elements of theory for well

posedness and nonlocal spaces connections to and coupling with local models convergence and compatibility of numerical approximations and various applications such as nonlocal dynamics of anomalous diffusion and nonlocal peridynamic models of elasticity and fracture mechanics A particular focus is on nonlocal systems with a finite range of interaction to illustrate their connection to local partial differential equations and fractional PDEs These models are designed to represent nonlocal interactions explicitly and to remain valid for complex systems involving possible singular solutions and they have the potential to be alternatives for as well as bridges to existing models The author discusses ongoing studies of nonlocal models to encourage the discovery of new mathematical theory for nonlocal continuum models and offer new perspectives on traditional models analytical techniques and algorithms

**Boundary Control of PDEs** Miroslav Krstic, Andrey Smyshlyaev, 2008-01-01 The text's broad coverage includes parabolic PDEs hyperbolic PDEs of first and second order fluid thermal and structural systems delay systems PDEs with third and fourth derivatives in space including variants of linearized Ginzburg Landau Schrodinger Kuramoto Sivashinsky KdV beam and Navier Stokes equations real valued as well as complex valued PDEs stabilization as well as motion planning and trajectory tracking for PDEs and elements of adaptive control for PDEs and control of nonlinear PDEs

**Integer Programming** Ellis L. Johnson, 1980-01-01 This monograph considers pure integer programming problems which concern packing partitioning or covering For this class of problems an algorithmic framework using a duality approach is offered Furthermore the author proposes for the first time a general framework for both packing and covering problems characterizing the convex whole of integer solutions

**Conjugate Duality and Optimization** R. Tyrrell Rockafellar, 1974-01-01 The theory of duality in problems of optimization is developed in a setting of finite and infinite dimensional spaces using convex analysis Applications to convex and nonconvex problems Expository account containing many new results Author

**Techniques of Differential Topology in Relativity** Roger Penrose, 1972-06-01 Acquaints the specialist in relativity theory with some global techniques for the treatment of space times and will provide the pure mathematician with a way into the subject of general relativity

Orthogonal Polynomials and Special Functions Richard Askey, 1975-06-01 This volume presents the idea that one studies orthogonal polynomials and special functions to use them to solve problems

Random Number Generation and Quasi-Monte Carlo Methods Harald Niederreiter, 1992-01-01 Tremendous progress has taken place in the related areas of uniform pseudorandom number generation and quasi Monte Carlo methods in the last five years This volume contains recent important work in these two areas and stresses the interplay between them Some developments contained here have never before appeared in book form Includes the discussion of the integrated treatment of pseudorandom numbers and quasi Monte Carlo methods the systematic development of the theory of lattice rules and the theory of nets and t's sequences the construction of new and better low discrepancy point sets and sequences Nonlinear congruential methods the initiation of a systematic study of methods for pseudorandom vector generation and shift register pseudorandom numbers Based on a series of 10 lectures

presented by the author at a CBMS NSF Regional Conference at the University of Alaska at Fairbanks in 1990 to a selected group of researchers this volume includes background material to make the information more accessible to nonspecialists

*A Unified Approach to Boundary Value Problems* Athanassios S. Fokas, 2008-11-06 A novel approach to analysing initial boundary value problems for integrable partial differential equations PDEs in two dimensions based on ideas of the inverse scattering transform that the author introduced in 1997 This method is unique in also yielding novel integral representations for linear PDEs Several new developments are addressed in the book including a new transform method for linear evolution equations on the half line and on the finite interval analytical inversion of certain integrals such as the attenuated Radon transform and the Dirichlet to Neumann map for a moving boundary integral representations for linear boundary value problems analytical and numerical methods for elliptic PDEs in a convex polygon and integrable nonlinear PDEs An epilogue provides a list of problems on which the author's new approach has been used offers open problems and gives a glimpse into how the method might be applied to problems in three dimensions

**Spline Models for Observational Data** Grace Wahba, 1990-09-01 This book serves well as an introduction into the more theoretical aspects of the use of spline models It develops a theory and practice for the estimation of functions from noisy data on functionals The simplest example is the estimation of a smooth curve given noisy observations on a finite number of its values Convergence properties data based smoothing parameter selection confidence intervals and numerical methods are established which are appropriate to a number of problems within this framework Methods for including side conditions and other prior information in solving ill posed inverse problems are provided Data which involves samples of random variables with Gaussian Poisson binomial and other distributions are treated in a unified optimization context Experimental design questions i e which functionals should be observed are studied in a general context Extensions to distributed parameter system identification problems are made by considering implicitly defined functionals

Weak Convergence of Measures Patrick Billingsley, 1971-06-01 A treatment of the convergence of probability measures from the foundations to applications in limit theory for dependent random variables Mapping theorems are proved via Skorokhod's representation theorem Prokhorov's theorem is proved by construction of a content The limit theorems at the conclusion are proved under a new set of conditions that apply fairly broadly but at the same time make possible relatively simple proofs

*Topics in Finite Elasticity* Morton E. Gurtin, 1981-01-01 Finite elasticity is a theory of elastic materials that are capable of undergoing large deformations This theory is inherently nonlinear and is mathematically quite complex This monograph presents a derivation of the basic equations of the theory a discussion of the general boundary value problems and a treatment of several interesting and important special topics such as simple shear uniqueness the tensile deformations of a cube and antiplane shear The monograph is intended for engineers physicists and mathematicians

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