Control Theory of Partial Differential Equations

Oleg Imanuvilov

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Control Theory For Partial Differential Equations

Irena Lasiecka

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Trends in Control Theory and Partial Differential Equations Fatiha Alabau-Boussouira,Fabio Ancona,Alessio Porretta,Carlo Sinestrari,2019-07-04 This book presents cutting edge contributions in the areas of control theory and partial differential equations Over the decades control theory has had deep and fruitful interactions with the theory of partial differential equations PDEs Well known examples are the study of the generalized solutions of Hamilton Jacobi Bellman equations arising in deterministic and stochastic optimal control and the development of modern analytical tools to study the controllability of infinite dimensional systems governed by PDEs In the present volume leading experts provide an up to date overview of the connections between these two vast fields of mathematics Topics addressed include regularity of the value function associated to finite dimensional control systems controllability and observability for PDEs and asymptotic analysis of multiagent systems The book will be of interest for both researchers and graduate students working in these areas

Control Theory of Systems Governed by Partial Differential Equations A.K. Aziz,J.W. Wingate,M.J. Balas,2014-05-10 Control Theory of Systems Governed by Partial Differential Equations covers the proceedings of the 1976 Conference by the same title held at the Naval Surface Weapons Center Silver Spring Maryland The purpose of this conference is to examine the control theory of partial differential equations and its application This text is divided into five chapters that primarily focus on tutorial lecture series on the theory of optimal control of distributed systems It describes the many manifestations of the theory and its applications appearing in the other chapters This work also presents the principles of the duality and asymptotic methods in control theory including the variational principle for the heat equation A chapter highlights systems that are not of the linear quadratic type This chapter also explores the control of free surfaces and the geometrical control variables The last chapter provides a summary of the features and applications of the numerical approximation of problems of optimal control This book will prove useful to mathematicians engineers and researchers

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Partial Differential Control Theory J. F. Pommaret,2001 Algebraic analysis that is the algebraic study of systems of partial differential equations by means of module theory and homological algebra was pioneered around 1970 by M Kashiwara B Malgrange and V P Palamodov The theory of differential modules namely modules over a noncommutative ring of differential operators is a fashionable subject of research today However despite its fundamental importance in mathematics it can only be found in specialist books and papers and has only been applied in control theory since 1990 This book provides an account of algebraic analysis and its application to control systems defined by partial differential equations The first volume presents the mathematical tools needed from both commutative algebra homological algebra differential geometry and differential algebra The second volume applies these new methods in order to study the structural and input output properties of both linear and nonlinear control systems Hundreds of explicit examples allow the reader to gain insight and experience in these topics   Partial Differential Control Theory J. F. Pommaret,2001   *Optimal Control Theory Applied to Systems Described by Partial Differential Equations. Vol. 1 of Final Report* W. L. Brogan,CALIFORNIA UNIV LOS ANGELES DEPT OF ENGINEERING.,1966 The study of optimal control problems for distributed parameter systems is intimately connected to the study of partial differential equations and or integral equations involving two or more independent variables The primary purpose of the dissertation is to investigate the application of optimal control theory to systems described by partial differential equations The intent is not to advance the theory of partial differential equations per se Thus all considerations will be restricted to the more familiar equations of the type which often occur in mathematical physics Specifically the distributed parameter systems under consideration are represented by a set of field equations

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 ltzsch 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   Optimal Control Theory Applied to Systems Described by Partial Differential Equations William L. Brogan,1965   *Optimal Control of Systems Governed by Partial Differential Equations* Jacques-Louis Lions,1971   Estimation and Control Problems for Stochastic Partial Differential Equations Pavel S. Knopov,Olena N. Deriyeva,2013-09-17 Focusing on research surrounding aspects of insufficiently studied problems of estimation and optimal control of random fields this book exposes some important aspects of those fields for systems modeled by stochastic partial differential equations It contains many results of interest to specialists in both the theory of random fields and optimal control theory who use modern mathematical tools for resolving specific applied problems and presents research that has not previously been covered More generally this book is intended for scientists graduate and post graduates specializing in probability theory and mathematical statistics The models presented describe many processes in turbulence theory fluid mechanics hydrology astronomy and meteorology and are widely used in pattern recognition theory and parameter identification of stochastic systems Therefore this book may also be useful to applied mathematicians who use probability and statistical methods in the selection of useful signals subject to noise hypothesis distinguishing distributed parameter systems optimal control and more Material presented in this monograph can be used for education courses on the estimation and control theory of random fields   **Nonlinear Optimal Control Theory** Leonard David Berkovitz,Negash G. Medhin,2012-08-25 Nonlinear Optimal Control Theory presents a deep wide ranging introduction to the mathematical theory of the optimal control of processes governed by ordinary differential equations and certain types of differential equations with memory Many examples illustrate the mathematical issues that need to be addressed when using optimal control techniques in diverse areas Drawing on classroom tested material from Purdue University and North Carolina State University the book gives a unified account of bounded state problems governed by ordinary integrodifferential and delay systems It also discusses Hamilton Jacobi theory By providing a sufficient and rigorous treatment of finite dimensional control problems the book equips readers with the foundation to deal with other types of control problems such as those governed by stochastic differential equations partial differential equations and differential games   Optimal Control Problems for Partial Differential Equations on Reticulated Domains Peter I. Kogut,Günter R. Leugering,2011-09-09 In the development of optimal control the complexity of the systems to which it is applied has increased significantly becoming an issue in scientific computing In order to carry out model reduction on these systems the authors of this work have developed a method based on asymptotic analysis Moving from abstract explanations to examples and applications with a focus on structural network problems they aim at combining techniques of homogenization and

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