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Estimation and Control of Distributed Parameter Systems: Proceedings (International Series of Numerical Mathematics)

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Control and Estimation of Distributed Parameter Systems W. Desch, F. Kappel, K. Kunisch, 2012-12-06 Consisting of 23 refereed contributions this volume offers a broad and diverse view of current research in control and estimation of partial differential equations Topics addressed include but are not limited to control and stability of hyperbolic systems related to elasticity linear and nonlinear control and identification of nonlinear parabolic systems exact and approximate controllability and observability Pontryagin's maximum principle and dynamic programming in PDE and numerics pertinent to optimal and suboptimal control problems This volume is primarily geared toward control theorists seeking information on the latest developments in their area of expertise It may also serve as a stimulating reader to any researcher who wants to gain an impression of activities at the forefront of a vigorously expanding area in applied mathematics

Control and Estimation of Distributed Parameter Systems Wolfgang Desch, Franz Kappel, Karl Kunisch, 2012-12-06 Consisting of 16 refereed original contributions this volume presents a diversified collection of recent results in control of distributed parameter systems Topics addressed include optimal control in fluid mechanics numerical methods for optimal control of partial differential equations modeling and control of shells level set methods mesh adaptation for parameter estimation problems shape optimization Advanced graduate students and researchers will find the book an excellent guide to the forefront of control and estimation of distributed parameter systems

Control and Estimation of Distributed Parameter Systems: Nonlinear Phenomena Wolfgang Desch, Franz Kappel, Karl Kunisch, 2012-12-06 22 papers on control of nonlinear partial differential equations highlight the area from a broad variety of viewpoints They comprise theoretical considerations such as optimality conditions relaxation or stabilizability theorems as well as the development and evaluation of new algorithms A significant part of the volume is devoted to applications in engineering continuum mechanics and population biology

Control and estimation of distributed parameter systems KUNISCH, 1989-10-01 Estimation and Control of Distributed Parameter Systems DESCH, KAPPEL, KUNISCH, 2013-11-21

Estimation and Control of Distributed Parameter Systems: Proceedings of an International Conference on Control and Estimation of Distributed Parameter Systems Held in Vorau (Austria) on 8-14 July 1990. International Series of Numerical Mathematics W. Desch, F. Kappel, K. Kunisch, GRAZ UNIV (Austria), 1991 About fifty participants from fifteen different countries attended the International Conference on Control and Estimation of Distributed Parameter Systems held at the Chorherrenstift Vorau Austria July 8 14 1990 The meeting provided a forum for exchange and development of new directions in the fields that were the theme of the conference The focus during this conference on various subtopics of control and estimation is best characterized by the research interests of the lectures and especially by the contributors to this proceedings volume which contains original research contributions Some specific areas can be distinguished as having attracted special attention at this conference These include control of systems with nonlinear state equation feedback control infinite dimensional systems

parameter estimation and inverse problems numerical treatment of control and estimation problems
Estimation of Distributed Parameter Systems F. Kappel, Karl Kunisch, Wilhelm Schappacher, 1989

**Control and
Domain**

Decomposition Methods in Optimal Control of Partial Differential Equations John E. Lagnese, Günter

Leugering, 2012-12-06 This monograph considers problems of optimal control for partial differential equations of elliptic and more importantly of hyperbolic types on networked domains The main goal is to describe develop and analyze iterative space and time domain decompositions of such problems on the infinite dimensional level While domain decomposition methods have a long history dating back well over one hundred years it is only during the last decade that they have become a major tool in numerical analysis of partial differential equations A keyword in this context is parallelism This development is perhaps best illustrated by the fact that we just encountered the 15th annual conference precisely on this topic Without attempting to provide a complete list of introductory references let us just mention the monograph by Quarteroni and Valli 91 as a general up to date reference on domain decomposition methods for partial differential equations The emphasis of this monograph is to put domain decomposition methods in the context of so called virtual optimal control problems and more importantly to treat optimal control problems for partial differential equations and their decompositions by an all at once approach This means that we are mainly interested in decomposition techniques which can be interpreted as virtual optimal control problems and which together with the real control problem coming from an underlying application lead to a sequence of individual optimal control problems on the subdomains that are iteratively decoupled across the interfaces

Multivariate Approximation and Splines Günther Nürnberger, Jochen W. Schmidt, Guido Walz, 2012-12-06 This book contains the refereed papers which were presented at the international conference on Multivariate Approximation and Splines held in Mannheim Germany on September 7-10 1996 Fifty experts from Bulgaria England France Israel Netherlands Norway Poland Switzerland Ukraine USA and Germany participated in the symposium It was the aim of the conference to give an overview of recent developments in multivariate approximation with special emphasis on spline methods The field is characterized by rapidly developing branches such as approximation data fitting interpolation splines radial basis functions neural networks computer aided design methods subdivision algorithms and wavelets The research has applications in areas like industrial production visualization pattern recognition image and signal processing cognitive systems and modeling in geology physics biology and medicine In the following we briefly describe the contents of the papers Exact inequalities of Kolmogorov type which estimate the derivatives of multivariate periodic functions are derived in PICHUGOV These inequalities are applied to the approximation of classes of multivariate periodic functions and to the approximation by quasi polynomials BAINOV DISHLIEV and HRISTOVA investigate initial value problems for non linear impulse differential difference equations which have many applications in simulating real processes By applying iterative techniques sequences of lower and upper solutions are constructed which converge to a solution of the initial value

problem **Modeling, Simulation, and Optimization of Integrated Circuits** K. Antreich, R. Bulirsch, A. Gilg, P. Rentrop, 2012-12-06 In November 2001 the Mathematical Research Center at Oberwolfach Germany hosted the third Conference on Mathematical Models and Numerical Simulation in Electronic Industry It brought together researchers in mathematics electrical engineering and scientists working in industry The contributions to this volume try to bridge the gap between basic and applied mathematics research in electrical engineering and the needs of industry *Systems Theory and PDEs* Felix L. Schwenninger, Marcus Waurick, 2024-09-20 This volume presents recent advances and open problems in the cross section of infinite dimensional systems theory and the modern treatment of PDEs Chapters are based on talks and problem sessions from the first Workshop on Systems Theory and PDEs WOSTAP held at TU Bergakademie Freiberg in July 2022 The main topics covered include Differential algebraic equations Port Hamiltonian systems in both finite and infinite dimensions Highly nonlinear equations related to elasticity plasticity Modeling of thermo piezo electromagnetism

European Control Conference 1991 , 1991-07-02 Proceedings of the European Control Conference 1991 July 2 5 1991 Grenoble France **Optimization, Optimal Control and Partial Differential Equations** V. Barbu, J.F. Bonnans, D. Tiba, 2013-03-07 This book collects research papers presented in the First Franco Romanian Conference on Optimization Optimal Control and Partial Differential Equations held at Iasi on 7 11 september 1992 The aim and the underlying idea of this conference was to take advantage of the new SOCial developments in East Europe and in particular in Romania to stimulate the scientific contacts and cooperation between French and Romanian mathematicians and teams working in the field of optimization and partial differential equations This volume covers a large spectrum of problems and result developments in this field in which most of the participants have brought notable contributions The following topics are discussed in the contributions presented in this volume 1 Variational methods in mechanics and physical models Here we mention the contributions of D Cioranescu P Donato and H I Ene fluid flows in dielectric porous media R Stavre the impact of a jet with two fluids on a porous wall C Lefter and D Motreanu nonlinear eigenvalue problems with discontinuities I Rus maximum principles for elliptic systems and on asymptotic XII properties of solutions of evolution equations R Latcu and M Megan R Luca and R Morozanu R Faure 2 The controllability of Infinite dimensional and distributed parameter systems with the contribution of P Grisvard singularities and exact controllability for hyperbolic systems G Geymonat P Loreti and V Valente exact controllability of a shallow shell model C *Stabilization for Some Fractional-Evolution Systems* Kaïs Ammari, Fathi Hassine, Luc Robbiano, 2022-10-19 This brief provides unified methods for the stabilization of some fractional evolution systems nicely complementing existing literature on fractional calculus The volume is divided into three chapters the first of which considers the stabilization for some abstract evolution equations with a fractional damping the second of which validates the abstract results of chapter 1 on concrete examples and the third of which studies the stabilization of fractional evolution systems with memory Optimization Methods in Partial Differential Equations Steven Cox, Irena

Lasiecka,1997 The problems considered range from basic theoretical issues in the calculus of variations such as infinite dimensional Hamilton Jacobi equations saddle point principles and issues of unique continuation to ones focusing on application and computation where theoretical tools are tuned to more specifically defined problems *Relaxation and Decomposition Methods for Mixed Integer Nonlinear Programming* Ivo Nowak,2005-08-15

Nonlinear optimization problems containing both continuous and discrete variables are called mixed integer nonlinear programs MINLP Such problems arise in many fields such as process industry engineering design communications and nance There is currently a huge gap between MINLP and mixed integer linear programming MIP solver technology With a modern state of the art MIP solver it is possible to solve models with millions of variables and constraints whereas the dimension of solvable MINLPs is often limited by a number that is smaller by three or four orders of magnitude It is theoretically possible to approximate a general MINLP by a MIP with arbitrary precision However good MIP approximations are usually much larger than the original problem Moreover the approximation of nonlinear functions by piecewise linear functions can be difficult and time consuming In this book relaxation and decomposition methods for solving nonconvex structured MINLPs are proposed In particular a generic branch cut and price BCP framework for MINLP is presented BCP is the underlying concept in almost all modern MIP solvers Providing a powerful decomposition framework for both sequential and parallel solvers it made the success of the current MIP technology possible So far generic BCP frameworks have been developed only for MIP for example COIN BCP IBM 2003 and ABACUS OREAS GmbH 1999 In order to generalize MIP BCP to MINLP BCP the following points have to be taken into account A given sparse MINLP is reformulated as a block separable program with linear coupling constraints The block structure makes it possible to generate Lagrangian cuts and to apply Lagrangian heuristics In order to facilitate the generation of polyhedral relaxations nonlinear convex relaxations are constructed The MINLP separation and pricing subproblems for generating cuts and columns are solved with specialized MINLP solvers

Flow in Porous Media J. Douglas, U. Hornung, 2012-12-06 Jim Douglas Jr These proceedings reflect some of the thoughts expressed at the Oberwolfach Conference on Porous Media held June 21-27 1992 organized by Jim Douglas Jr Ulrich Hornung and Cornelius J van Duin Forty five scientists attended the conference and about thirty papers were presented Fourteen manuscripts were submitted for the proceedings and are incorporated in this volume they cover a number of aspects of flow and transport in porous media Indeed there are 223 individual references in the fourteen papers but fewer than fifteen are cited in more than one paper The papers appear in alphabetical order on the basis of the first author A brief introduction to each paper is given below Allen and Curran consider a variety of questions related to the simulation of ground water contamination Accurate water velocities are essential for acceptable results and the authors apply mixed finite elements to the pressure equation to obtain these velocities Since fine grids are required to resolve heterogeneities standard iterative procedures are too slow for practical simulation the authors introduce a parallelizable multigrid based it

erative scheme for the lowest order Raviart Thomas mixed method Contaminant transport is approximated through a finite element collocation procedure and an alternating direction modified method of characteristics technique is employed to time step the simulation Computational experiments carried out on an nCube 2 computer **Multiscale Modeling in Epitaxial Growth** Axel Voigt, 2005-04-20 Epitaxy is relevant for thin film growth and is a very active area of theoretical research since several years Recently powerful numerical techniques have been used to link atomistic effects at the film s surface to its macroscopic morphology This book also serves as an introduction into this highly active interdisciplinary field of research for applied mathematicians theoretical physicists and computational materials scientists Smart Material Systems Ralph C. Smith, 2005-01-01 This book describes several novel applications currently under investigation that exploit the unique actuator and sensor capabilities of smart material compounds In addition to present and projected applications this book provides comprehensive coverage of both linear and nonlinear modeling techniques necessary to characterize materials in a manner that facilitates transducer design and control development The author focuses on ferroelectric magnetic and shape memory compounds and also addresses applications exploiting amorphous and ionic polymers magnetorheological compounds and fiber optic sensors By providing a unified treatment of both linear and nonlinear characterization frameworks Smart Material Systems Model Development encompasses both low to moderate drive levels which constitute the primary focus of most present texts and the high drive regimes dictated by present and future applications This will significantly enhance the design of transducers and control systems which exploit the unique actuator and sensor capabilities provided by smart material compounds *Control and Estimation of Distributed Parameter Systems* F. Kappel, Karl Kunisch, Wilhelm Schappacher, 1989

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