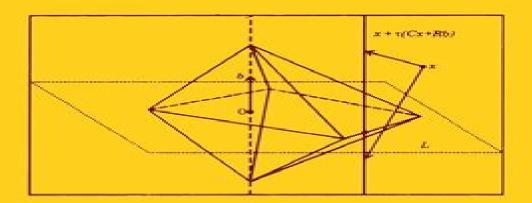
STABILIZATION PROBLEMS WITH CONSTRAINTS

Analysis and Computational Aspects

VLADIMIR A. BUSHENKOV and GEORGI V. SMIRNOV





Stabilization Problems With Constraints

Antoni Gajewski, Michal Zyczkowski

Stabilization Problems With Constraints:

Stabilization Problems with Constraints Vladimir A Bushenkov, Georgi V Smirnov, 1998-04-29 Presents and demonstrates stabilizer design techniques that can be used to solve stabilization problems with constraints These methods have their origins in convex programming and stability theory However to provide a practical capability in stabilizer design the methods are tailored to the special features and needs of this field Hence the main emphasis of this book is on the methods of stabilization rather than optimization and stability theory The text is divided into three parts Part I contains some background material Part II is devoted to behavior of control systems taking examples from mechanics to illustrate the theory Finally Part III deals with nonlocal stabilization problems including a study of the global stabilization problem

Stabilization Problems with Constraints Vladimir A Bushenkov, 2021-12-24 Presents and demonstrates stabilizer design techniques that can be used to solve stabilization problems with constraints These methods have their origins in convex programming and stability theory However to provide a practical capability in stabilizer design the methods are tailored to the special features and needs of this field Hence the main emphasis of this book is on the methods of stabilization rather than optimization and stability theory The text is divided into three parts Part I contains some background material Part II is devoted to behavior of control systems taking examples from mechanics to illustrate the theory Finally Part III deals with nonlocal stabilization problems including a study of the global stabilization problem **Internal and External** Stabilization of Linear Systems with Constraints Ali Saberi, Anton A. Stoorvogel, Peddapullaiah Sannuti, 2012-06-21 Unifying two decades of research this book is the first to establish a comprehensive foundation for a systematic analysis and design of linear systems with general state and input constraints For such systems which can be used as models for most nonlinear systems the issues of stability controller design additional constraints and satisfactory performance are addressed The book is an excellent reference for practicing engineers graduate students and researchers in control systems theory and design It may also serve as an advanced graduate text for a course or a seminar in nonlinear control systems theory and design in applied mathematics or engineering departments Minimal prerequisites include a first graduate course in state space methods as well as a first course in control systems design **Stability-Constrained Optimization for Modern** Power System Operation and Planning Yan Xu, Yuan Chi, Heling Yuan, 2023-06-07 Stability Constrained Optimization for Modern Power System Operation and Planning Comprehensive treatment of an aspect of stability constrained operations and planning including the latest research and engineering practices Stability Constrained Optimization for Modern Power System Operation and Planning focuses on the subject of power system stability Unlike other books in this field which focus mainly on the dynamic modeling stability analysis and controller design for power systems this book is instead dedicated to stability constrained optimization methodologies for power system stability enhancement including transient stability constrained power system dispatch and operational control and voltage stability constrained dynamic VAR Resources

planning in the power grid Authored by experts with established track records in both research and industry Stability Constrained Optimization for Modern Power System Operation and Planning covers three parts Overview of power system stability including definition classification phenomenon mathematical models and analysis tools for stability assessment as well as a review of recent large scale blackouts in the world Transient stability constrained optimal power flow TSC OPF and transient stability constrained unit commitment TSC UC for power system dispatch and operational control including a series of optimization model formulations transient stability constraint construction and extraction methods and efficient solution approaches Optimal planning of dynamic VAR Resources such as STATCOM and SVC in power system for voltage stability enhancement including a set of voltage stability indices candidate bus selection methods multi objective optimization model formulations and high quality solution approaches Stability Constrained Optimization for Modern Power System Operation and Planning provides the latest research findings to scholars researchers and postgraduate students who are seeking optimization methodologies for power system stability enhancement while also offering key practical methods to power system operators planners and optimization algorithm developers in the power industry **Finite-Time Stability: An** Input-Output Approach Francesco Amato, Gianmaria De Tommasi, Alfredo Pironti, 2018-07-19 Systematically presents the input output finite time stability IO FTS analysis of dynamical systems covering issues of analysis design and robustness The interest in finite time control has continuously grown in the last fifteen years. This book systematically presents the input output finite time stability IO FTS analysis of dynamical systems with specific reference to linear time varying systems and hybrid systems It discusses analysis design and robustness issues and includes applications to real world engineering problems While classical FTS has an important theoretical significance IO FTS is a more practical concept which is more suitable for real engineering applications the goal of the research on this topic in the coming years Key features Includes applications to real world engineering problems Input output finite time stability IO FTS is a practical concept useful to study the behavior of a dynamical system within a finite interval of time Computationally tractable conditions are provided that render the technique applicable to time invariant as well as time varying and impulsive i e switching systems The LMIs formulation allows mixing the IO FTS approach with existing control techniques e g H control optimal control pole placement etc This book is essential reading for university researchers as well as post graduate engineers practicing in the field of robust process control in research centers and industries Topics dealt with in the book could also be taught at the level of advanced control courses for graduate students in the department of electrical and computer engineering mechanical engineering aeronautics and astronautics and applied mathematics Stability and Stabilization of Linear Systems with Saturating Actuators Sophie Tarbouriech, Germain Garcia, João Manoel Gomes da Silva Jr., Isabelle Queinnec, 2011-08-13 This monograph details basic concepts and tools fundamental for the analysis and synthesis of linear systems subject to actuator saturation and developments in recent research The authors use a state space approach and focus on stability analysis and

the synthesis of stabilizing control laws in both local and global contexts Different methods of modeling the saturation and behavior of the nonlinear closed loop system are given special attention Various kinds of Lyapunov functions are considered to present different stability conditions Results arising from uncertain systems and treating performance in the presence of saturation are given The text proposes methods and algorithms based on the use of linear programming and linear matrix inequalities for computing estimates of the basin of attraction and for designing control systems accounting for the control bounds and the possibility of saturation They can be easily implemented with mathematical software packages

Stabilization of Nonlinear Systems Using Receding-horizon Control Schemes Mazen Alamir, 2006-09-29 While conceptually elegant the generic formulations of nonlinear model predictive control are not ready to use for the stabilization of relatively fast systems This book presents a successful approach to this problem based on a co operation between structural considerations and on line optimization It also provides research showing how generic predictive control schemes can be extended from slow process based systems to a variety of fast systems Stochastic Control and Filtering over Constrained Communication Networks Qinyuan Liu, Zidong Wang, Xiao He, 2018-10-24 Stochastic Control and Filtering over Constrained Communication Networks presents up to date research developments and novel methodologies on stochastic control and filtering for networked systems under constrained communication networks It provides a framework of optimal controller filter design resilient filter design stability and performance analysis for the systems considered subject to various kinds of communication constraints including signal to noise constraints bandwidth constraints and packet drops Several techniques are employed to develop the controllers and filters desired including recursive Riccati equations matrix decomposition optimal estimation theory and mathematical optimization methods Readers will benefit from the book s new concepts models and methodologies that have practical significance in control engineering and signal processing Stochastic Control and Filtering over Constrained Communication Networks is a practical research reference for engineers dealing with networked control and filtering problems It is also of interest to academics and students working in control and communication networks Power Grid Complexity Shengwei Mei, Xuemin Zhang, Ming Cao, 2011-09-15 Power Grid Complexity introduces the complex system theory known as self organized criticality SOC theory and complex network theory and their applications to power systems It studies the network characteristics of power systems such as their small world properties structural vulnerability decomposition and coordination strategies and simplification and equivalence methods The book also establishes four blackout models based on SOC theory through which the SOC of power systems is studied at both the macroscopic and microscopic levels Additionally applications of complex system theory in power system planning and emergency management platforms are also discussed in depth This book can serve as a useful reference for engineers and researchers working with power systems Shengwei Mei is a Professor at the Department of Electrical Engineering at Tsinghua University China Xuemin Zhang is a Lecturer at the Department of Electrical Engineering at Tsinghua University

China Ming Cao is an Assistant Professor at the Faculty of Mathematics and Natural Sciences at the University of Groningen Advanced Strategies in Control Systems with Input and Output Constraints Sophie the Netherlands Tarbouriech, Germain Garcia, Adolf H. Glattfelder, 2007-07-13 Physical safety and technological constraints suggest that control actuators can neither provide unlimited amplitude signals nor unlimited speed of reaction The techniques described in this book are useful for industrial applications in aeronautical or space domains and in the context of biological systems Such methods are well suited for the development of tools that help engineers to solve analysis and synthesis problems of control systems with input and output constraints Optimal Control of Random Sequences in Problems with Constraints A.B. Piunovskiy, 2012-12-06 Controlled stochastic processes with discrete time form a very interest ing and meaningful field of research which attracts widespread attention At the same time these processes are used for solving of many applied problems in the queueing theory in mathematical economics in the theory of controlled technical systems etc In this connection methods of the theory of controlled processes constitute the every day instrument of many specialists working in the areas mentioned The present book is devoted to the rather new area that is to the optimal control theory with functional constraints This theory is close to the theory of multicriteria optimization The compromise between the mathematical rigor and the big number of meaningful examples makes the book attractive for professional mathematicians and for specialists who ap ply mathematical methods in different specific problems Besides the book contains setting of many new interesting problems for further invf stigatioll The book can form the basis of special courses in the theory of controlled stochastic processes for students and post graduates specializing in the applied mathematics and in the control theory of complex systf ms The grounding of graduating students of mathematical department is sufficient for the perfect understanding of all the material The book con tains the extensive Appendix where the necessary knowledge ill Borel spaces and in convex analysis is collected All the meaningful examples can be also understood by readers who are not deeply grounded in mathematics

Slope Stability and Stabilization Methods Lee W. Abramson, Thomas S. Lee, Sunil Sharma, Glenn M. Boyce, 2001-11-01 A major revision of the comprehensive text reference Written by world leading geotechnical engineers who share almost 100 years of combined experience Slope Stability and Stabilization Second Edition assembles the background information theory analytical methods design and construction approaches and practical examples necessary to carry out a complete slope stability project Retaining the best features of the previous edition this new book has been completely updated to address the latest trends and methodology in the field Features include All new chapters on shallow failures and stability of landfill slopes New material on probabilistic stability analysis cost analysis of stabilization alternatives and state of the art techniques in time domain reflectometry to help engineers plan and model new designs Tested and FHA approved procedures for the geotechnical stage of highway tunnel and bridge projects Sound guidance for geotechnical stage design and planning for virtually all types of construction projects Slope Stability and Stabilization Second Edition is filled with current and

comprehensive information making it one of the best resources available on the subject and an essential reference for today s and tomorrow s professionals in geology geotechnical engineering soil science and landscape architecture Structural Design under Stability Constraints Antoni Gajewski, Michal Zyczkowski, 2012-12-06 The first optimal design problem for an elastic column subject to buckling was formulated by Lagrange over 200 years ago However rapid development of structural optimization under stability constraints occurred only in the last twenty years In numerous optimal structural design problems the stability phenomenon becomes one of the most important factors particularly for slender and thin walled elements of aerospace structures ships precision machines tall buildings etc In engineering practice stability constraints appear more often than it might be expected even when designing a simple beam of constant width and variable depth the width if regarded as a design variable is finally determined by a stability constraint lateral stability Mathematically optimal structural design under stability constraints usually leads to optimization with respect to eigenvalues but some cases fall even beyond this type of problems A total of over 70 books has been devoted to structural optimization as yet but none of them has treated stability constraints in a sufficiently broad and comprehensive manner The purpose of the present book is to fill this gap The contents include a discussion of the basic structural stability and structural optimization problems and the pertinent solution methods followed by a systematic review of solutions obtained for columns arches bar systems plates shells and thin walled bars A unified approach based on Pontryagin's maximum principle is employed inasmuch as possible at least to problems of columns arches and plates Parametric optimization is discussed as well **Trends in PDE** Constrained Optimization Günter Leugering, Peter Benner, Sebastian Engell, Andreas Griewank, Helmut Harbrecht, Michael Hinze, Rolf Rannacher, Stefan Ulbrich, 2014-12-22 Optimization problems subject to constraints governed by partial differential equations PDEs are among the most challenging problems in the context of industrial economical and medical applications Almost the entire range of problems in this field of research was studied and further explored as part of the Deutsche Forschungsgemeinschaft DFG priority program 1253 on Optimization with Partial Differential Equations from 2006 to 2013 The investigations were motivated by the fascinating potential applications and challenging mathematical problems that arise in the field of PDE constrained optimization New analytic and algorithmic paradigms have been developed implemented and validated in the context of real world applications In this special volume contributions from more than fifteen German universities combine the results of this interdisciplinary program with a focus on applied mathematics. The book is divided into five sections on Constrained Optimization Identification and Control Shape and Topology Optimization Adaptivity and Model Reduction Discretization Concepts and Analysis and Applications Peer reviewed research articles present the most recent results in the field of PDE constrained optimization and control problems Informative survey articles give an overview of topics that set sustainable trends for future research This makes this special volume interesting not only for mathematicians but also for engineers and for natural and medical scientists working on processes that can be modeled

by PDEs Control Synthesis of Switched Systems Xudong Zhao, Yonggui Kao, Ben Niu, Tingting Wu, 2016-11-04 This book offers its readers a detailed overview of the synthesis of switched systems with a focus on switching stabilization and intelligent control The problems investigated are not only previously unsolved theoretically but also of practical importance in many applications voltage conversion naval piloting and navigation and robotics for example The book considers general switched system models and provides more efficient design methods to bring together theory and application more closely than was possible using classical methods It also discusses several different classes of switched systems For general switched linear systems and switched nonlinear systems comprising unstable subsystems it introduces novel ideas such as invariant subspace theory and the time scheduled Lyapunov function method of designing switching signals to stabilize the underlying systems For some typical switched nonlinear systems affected by various complex dynamics the book proposes novel design approaches based on intelligent control concepts It is a useful source of up to date design methods and algorithms for researchers studying switched systems and graduate students of control theory and engineering In addition it is a valuable reference resource for practising engineers working in switched system control design Readers should have a basic knowledge of linear nonlinear and switched systems **Constrained Optimization and Optimal Control for** Partial Differential Equations Günter Leugering, Sebastian Engell, Andreas Griewank, Michael Hinze, Rolf Rannacher, Volker Schulz, Michael Ulbrich, Stefan Ulbrich, 2012-01-03 This special volume focuses on optimization and control of processes governed by partial differential equations The contributors are mostly participants of the DFG priority program 1253 Optimization with PDE constraints which is active since 2006 The book is organized in sections which cover almost the entire spectrum of modern research in this emerging field Indeed even though the field of optimal control and optimization for PDE constrained problems has undergone a dramatic increase of interest during the last four decades a full theory for nonlinear problems is still lacking The contributions of this volume some of which have the character of survey articles therefore aim at creating and developing further new ideas for optimization control and corresponding numerical simulations of systems of possibly coupled nonlinear partial differential equations The research conducted within this unique network of groups in more than fifteen German universities focuses on novel methods of optimization control and identification for problems in infinite dimensional spaces shape and topology problems model reduction and adaptivity discretization concepts and important applications Besides the theoretical interest the most prominent question is about the effectiveness of model based numerical optimization methods for PDEs versus a black box approach that uses existing codes often heuristic based for optimization Stabilization, Safety, and Security of Distributed Systems Ajoy K. Datta, Maria Gradinariu, 2007-06-27 This book constitutes the refereed proceedings of the 8th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2006 held in Dallas TX USA in November 2006 The 36 revised full papers and 12 revised short papers presented together with the extended abstracts of 2 invited lectures address all aspects of self stabilization safety and

security recovery oriented systems and programming Partial Stability and Control V.I. Vorotnikov, 2012-12-06 Unlike the conventional research for the general theory of stability this mono graph deals with problems on stability and stabilization of dynamic systems with respect not to all but just to a given part of the variables characterizing these systems Such problems are often referred to as the problems of partial stability stabilization. They naturally arise in applications either from the requirement of proper performance of a system or in assessing system capa bility. In addition a lot of actual or desired phenomena can be formulated in terms of these problems and be analyzed with these problems taken as the basis The following multiaspect phenomena and problems can be indicated Lotka Volterra ecological principle of extinction focusing and acceleration of particles in electromagnetic fields drift of the gyroscope axis stabilization of a spacecraft by specially arranged relative motion of rotors connected to it Also very effective is the approach to the problem of stability stabilization with respect to all the variables based on preliminary analysis of partial stabilization A M Lyapunov the founder of the modern theory of stability was the first to formulate the problem of partial stability Later works by V V Rumyan tsev drew the attention of many mathematicians and mechanicians around the world to this problem which resulted in its being intensively worked out The method of Lyapunov functions became the key investigative method which turned out to be very effective in analyzing both theoretic and applied problems **Control of Coupled Partial Differential** Equations Karl Kunisch, Günter Leugering, Jürgen Sprekels, Fredi Tröltzsch, 2007-08-08 The international Conference on Optimal Control of Coupled Systems of partial Differential Equations was held at the Mathematisches Forschungs institut Oberwolfach from April 17 to 23 2005 The applications discussed during the conference includes the optimization and control of quantum mechanical systems **Newton-Type Methods for Optimization and Variational Problems** Alexey F. Izmailov, Mikhail V. Solodov, 2014-07-08 This book presents comprehensive state of the art theoretical analysis of the fundamental Newtonian and Newtonian related approaches to solving optimization and variational problems A central focus is the relationship between the basic Newton scheme for a given problem and algorithms that also enjoy fast local convergence The authors develop general perturbed Newtonian frameworks that preserve fast convergence and consider specific algorithms as particular cases within those frameworks i e as perturbations of the associated basic Newton iterations This approach yields a set of tools for the unified treatment of various algorithms including some not of the Newton type per se Among the new subjects addressed is the class of degenerate problems In particular the phenomenon of attraction of Newton iterates to critical Lagrange multipliers and its consequences as well as stabilized Newton methods for variational problems and stabilized sequential quadratic programming for optimization This volume will be useful to researchers and graduate students in the fields of optimization and variational analysis

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