Advanced Textbooks in Control and Signal Processing

Basil Kouvaritakis Mark Cannon

Model Predictive Control

Classical, Robust and Stochastic



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Model Predictive Control Basil Kouvaritakis, Mark Cannon, 2015-12-01 For the first time a textbook that brings together classical predictive control with treatment of up to date robust and stochastic techniques Model Predictive Control describes the development of tractable algorithms for uncertain stochastic constrained systems. The starting point is classical predictive control and the appropriate formulation of performance objectives and constraints to provide guarantees of closed loop stability and performance Moving on to robust predictive control the text explains how similar guarantees may be obtained for cases in which the model describing the system dynamics is subject to additive disturbances and parametric uncertainties Open and closed loop optimization are considered and the state of the art in computationally tractable methods based on uncertainty tubes presented for systems with additive model uncertainty Finally the tube framework is also applied to model predictive control problems involving hard or probabilistic constraints for the cases of multiplicative and stochastic model uncertainty The book provides extensive use of illustrative examples sample problems and discussion of novel control applications such as resource allocation for sustainable development and turbine blade control for maximized power capture with simultaneously reduced risk of turbulence induced damage Graduate students pursuing courses in model predictive control or more generally in advanced or process control and senior undergraduates in need of a specialized treatment will find Model Predictive Control an invaluable guide to the state of the art in this important subject For the instructor it Advances in Spacecraft Attitude Control Timothy provides an authoritative resource for the construction of courses Sands, 2020-01-15 Spacecraft attitude maneuvers comply with Euler's moment equations a set of three nonlinear coupled differential equations Nonlinearities complicate the mathematical treatment of the seemingly simple action of rotating and these complications lead to a robust lineage of research This book is meant for basic scientifically inclined readers and commences with a chapter on the basics of spaceflight and leverages this remediation to reveal very advanced topics to new spaceflight enthusiasts. The topics learned from reading this text will prepare students and faculties to investigate interesting spaceflight problems in an era where cube satellites have made such investigations attainable by even small universities It is the fondest hope of the editor and authors that readers enjoy this book **Secure Communication for 5G and IoT** Networks S Velliangiri, M Gunasekaran, P Karthikeyan, 2021-10-28 This book highlights research on secure communication of 5G and the Internet of Things IoT Networks along with related areas to ensure secure and Internet compatible IoT systems The authors not only discuss 5G and IoT security and privacy challenges but also energy efficient approaches to improving the ecosystems through communication The book addresses the secure communication and privacy of the 5G and IoT technologies while also revealing the impact of IoT technologies on several scenarios in smart city design Intended as a comprehensive introduction the book offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in 5G and IoT technologies **Model Predictive Control** Eduardo F.

Camacho, Carlos Bordons, José M. Maestre, 2025-08-10 Model Predictive Control MPC the classic textbook for students and practitioners seeking deep understanding of advanced control systems is now revised updated and reorganized in a streamlined third edition The authors renowned researchers in the field cover an extensive range of topics that embraces the basic and the advanced the theoretical and the applied The book offers advanced undergraduate and graduate students an accessible step by step approach that enables them progressively to grasp and apply the concepts they are studying For instructors this is an invaluable curriculum resource packed with examples and case studies The text features material on commercial MPC convolution models transfer functions state space models and constraints advanced topics robust and stochastic MPC and MPC for nonlinear hybrid large scale and distributed systems and applications a series of case studies in solar energy generation hospital stock control copper mining and aviation along with exercises to help readers assess their progress many with full or partial solutions in a solutions manual downloadable by adopting instructiors MATLAB programs to assist with the design aspects of the book and with reproducing some of the examples are included Model Predictive Control third edition s distinctive strength is its real world relevance It is an essential tool for future engineers its focus on practical implementation bridging the gap between academic theory and industrial practice and supplemented by exploration of optimization and algorithm related aspects of MPC ensures a holistic treatment of the subject Mathematical Reviews Model Predictive Control Eduardo F. Camacho, Carlos Bordons Alba, 2013-01-10 The second edition of Model .2001 Predictive Control provides a thorough introduction to theoretical and practical aspects of the most commonly used MPC strategies It bridges the gap between the powerful but often abstract techniques of control researchers and the more empirical approach of practitioners The book demonstrates that a powerful technique does not always require complex control algorithms Many new exercises and examples have also been added throughout Solutions available for download from the authors website save the tutor time and enable the student to follow results more closely even when the tutor isn t present **International Aerospace Abstracts** ,1996 Model Predictive Control Carlos Bordons Alba, 2012-01-26 The second edition of Model Predictive Control provides a thorough introduction to theoretical and practical aspects of the most commonly used MPC strategies It bridges the gap between the powerful but often abstract techniques of control researchers and the more empirical approach of practitioners. The book demonstrates that a powerful technique does not always require complex control algorithms Many new exercises and examples have also been added throughout Solutions available for download from the authors website save the tutor time and enable the student to follow results more closely even when the tutor isn t present Strategies in Robust and Stochastic Model Predictive Control Diego Muñoz-Carpintero, 2014 Physics Briefs ,1988 Handbook of Model Predictive Control Saša V. Raković, William S. Levine, 2018-09-01 Recent

<u>Physics Briefs</u>, 1988 **Handbook of Model Predictive Control** Saša V. Raković, William S. Levine, 2018-09-01 Recent developments in model predictive control promise remarkable opportunities for designing multi input multi output control systems and improving the control of single input single output systems This volume provides a definitive survey of the latest

model predictive control methods available to engineers and scientists today The initial set of chapters present various methods for managing uncertainty in systems including stochastic model predictive control With the advent of affordable and fast computation control engineers now need to think about using computationally intensive controls so the second part of this book addresses the solution of optimization problems in real time for model predictive control The theory and applications of control theory often influence each other so the last section of Handbook of Model Predictive Control rounds out the book with representative applications to automobiles healthcare robotics and finance The chapters in this volume will be useful to working engineers scientists and mathematicians as well as students and faculty interested in the progression of control theory Future developments in MPC will no doubt build from concepts demonstrated in this book and anyone with an interest in MPC will find fruitful information and suggestions for additional reading **Robust and Stochastic Model** Predictive Control of Linear Systems with Predictable Additive Disturbance Xiaohai Lin, 2020 Model Predictive Control in the Process Industry Eduardo F. Camacho, Carlos A. Bordons, 2012-12-06 Model Predictive Control is an important technique used in the process control industries It has developed considerably in the last few years because it is the most general way of posing the process control problem in the time domain The Model Predictive Control formulation integrates optimal control stochastic control of processes with dead time multivariable control and future references The finite control horizon makes it possible to handle constraints and non linear processes in general which are frequently found in industry Focusing on implementation issues for Model Predictive Controllers in industry it fills the gap between the empirical way practitioners use control algorithms and the sometimes abstractly formulated techniques developed by researchers The text is firmly based on material from lectures given to senior undergraduate and graduate students and articles written by the authors Robust & Stochastic Model Predictive Control Qifeng Cheng, 2012 In the thesis two different model predictive control MPC strategies are investigated for linear systems with uncertainty in the presence of constraints namely robust MPC and stochastic MPC Firstly a Youla Parameter is integrated into an efficient robust MPC algorithm It is demonstrated that even in the constrained cases the use of the Youla Parameter can desensitize the costs to the effect of uncertainty while not affecting the nominal performance and hence it strengthens the robustness of the MPC strategy Since the controller u KLQX c can offer many advantages and is used across the thesis the work provides two solutions to the problem when the unconstrained nominal LQ optimal feedback KLQ cannot stabilise the whole class of system models The work develops two stochastic tube approaches to account for probabilistic constraints By using a semi closed loop paradigm the nominal and the error dynamics are analyzed separately and this makes it possible to compute the tube scalings offline First ellipsoidal tubes are considered The evolution for the tube scalings is simplified to be affine and using Markov Chain model the probabilistic tube scalings can be calculated to tighten the constraints on the nominal The on line algorithm can be formulated into a quadratic programming QP problem and the MPC strategy is closed loop stable Following that a direct way to compute the

tube scalings is studied It makes use of the information on the distribution of the uncertainty explicitly The tubes do not take a particular shape but are defined implicitly by tightened constraints This stochastic MPC strategy leads to a non conservative performance in the sense that the probability of constraint violation can be as large as is allowed It also ensures the recursive feasibility and closed loop stability and is extended to the output feedback case **Predictive Control for Linear and Hybrid Systems** Francesco Borrelli, Alberto Bemporad, Manfred Morari, 2017-06-22 With a simple approach that includes real time applications and algorithms this book covers the theory of model predictive control MPC **Receding Horizon Control** Wook Hyun Kwon, Soo Hee Han, 2005-06-29 Easy to follow learning structure makes absorption of advanced material as pain free as possible Introduces complete theories for stability and cost monotonicity for constrained and non linear systems as well as for linear systems In co ordination with MATLAB files available from springeronline com exercises and examples give the student more practice in the predictive control and filtering techniques presented

Model Predictive Control ,2010 Recent Advances in Model Predictive Control Timm Faulwasser, Matthias A. Müller, Karl Worthmann, 2021-04-17 This book focuses on distributed and economic Model Predictive Control MPC with applications in different fields MPC is one of the most successful advanced control methodologies due to the simplicity of the basic idea measure the current state predict and optimize the future behavior of the plant to determine an input signal and repeat this procedure ad infinitum and its capability to deal with constrained nonlinear multi input multi output systems While the basic idea is simple the rigorous analysis of the MPC closed loop can be quite involved Here distributed means that either the computation is distributed to meet real time requirements for very large scale systems or that distributed agents act autonomously while being coupled via the constraints and or the control objective In the latter case communication is necessary to maintain feasibility or to recover system wide optimal performance The term economic refers to general control tasks and thus goes beyond the typically predominant control objective of set point stabilization Here recently developed concepts like strict dissipativity of optimal control problems or turnpike properties play a crucial role The book collects research and survey articles on recent ideas and it provides perspectives on current trends in nonlinear model predictive control Indeed the book is the outcome of a series of six workshops funded by the German Research Foundation DFG involving early stage career scientists from different countries and from leading European industry stakeholders

Predictive Control Yugeng Xi,Dewei Li,2019-06-28 This book is a comprehensive introduction to model predictive control MPC including its basic principles and algorithms system analysis and design methods strategy developments and practical applications The main contents of the book include an overview of the development trajectory and basic principles of MPC typical MPC algorithms quantitative analysis of classical MPC systems design and tuning methods for MPC parameters constrained multivariable MPC algorithms and online optimization decomposition methods Readers will then progress to more advanced topics such as nonlinear MPC and its related algorithms the diversification development of MPC

with respect to control structures and optimization strategies and robust MPC Finally applications of MPC and its generalization to optimization based dynamic problems other than control will be discussed Systematically introduces fundamental concepts basic algorithms and applications of MPC Includes a comprehensive overview of MPC development emphasizing recent advances and modern approaches Features numerous MPC models and structures based on rigorous research Based on the best selling Chinese edition which is a key text in China Predictive Control Fundamentals and Developments is written for advanced undergraduate and graduate students and researchers specializing in control technologies It is also a useful reference for industry professionals engineers and technicians specializing in advanced optimization control technology

Model Predictive Control in the Process Industry Eduardo F Camacho, Carlos A Bordons, 1995-03-17

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