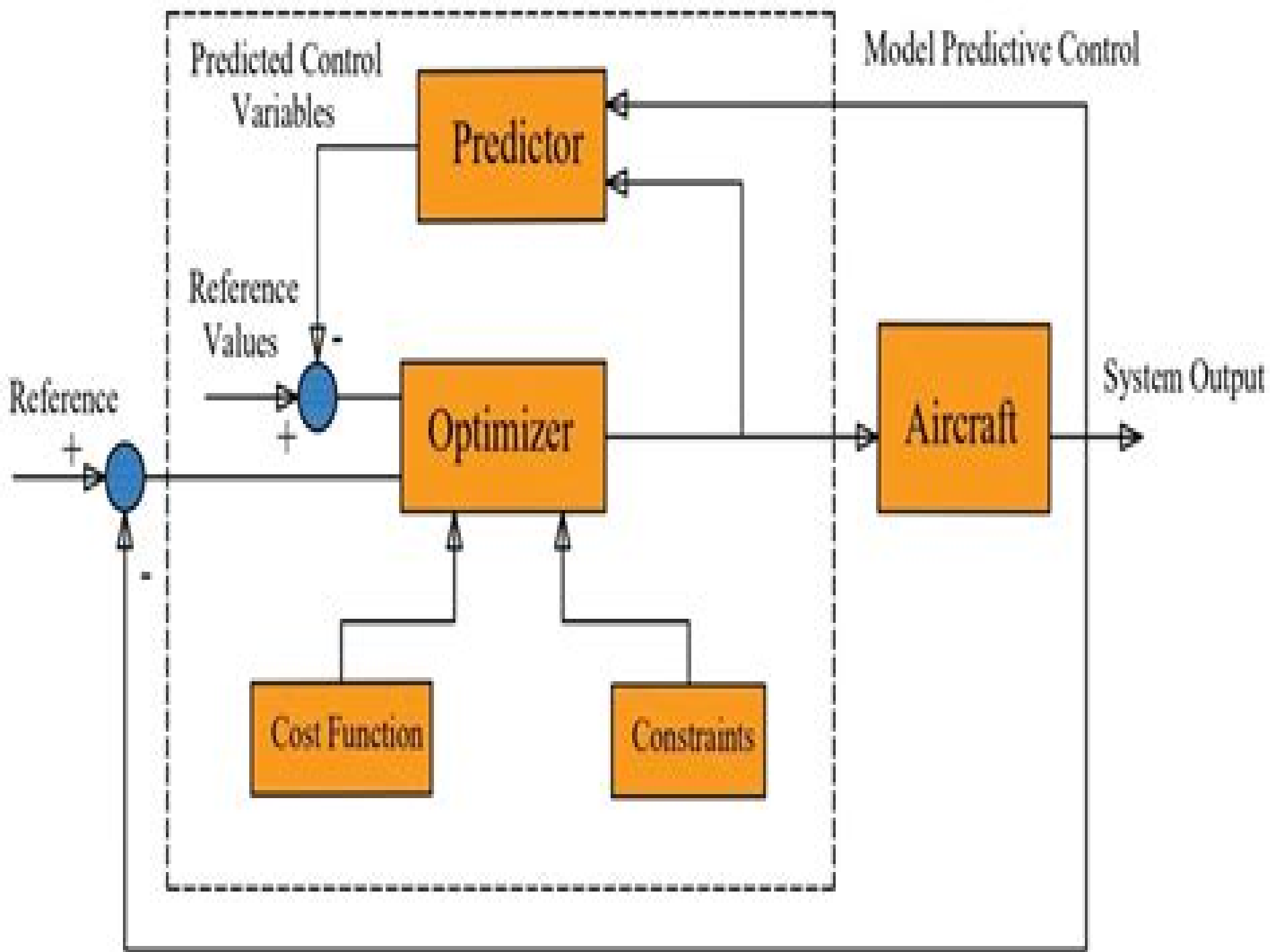




Model Predictive Control In The Proceb Industry

Basil Kouvaritakis, Mark Cannon



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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 provides an authoritative resource for the construction of courses

Economic Model Predictive Control Matthew

Ellis, Jinfeng Liu, Panagiotis D. Christofides, 2016-07-27 This book presents general methods for the design of economic model predictive control EMPC systems for broad classes of nonlinear systems that address key theoretical and practical considerations including recursive feasibility closed loop stability closed loop performance and computational efficiency Specifically the book proposes Lyapunov based EMPC methods for nonlinear systems two tier EMPC architectures that are highly computationally efficient and EMPC schemes handling explicitly uncertainty time varying cost functions time delays and multiple time scale dynamics The proposed methods employ a variety of tools ranging from nonlinear systems analysis through Lyapunov based control techniques to nonlinear dynamic optimization The applicability and performance of the proposed methods are demonstrated through a number of chemical process examples The book presents state of the art methods for the design of economic model predictive control systems for chemical processes In addition to being mathematically rigorous these methods accommodate key practical issues for example direct optimization of process economics time varying economic cost functions and computational efficiency Numerous comments and remarks providing fundamental understanding of the merging of process economics and feedback control into a single framework are included A control engineer can easily tailor the many detailed examples of industrial relevance given within the text to a specific application The authors present a rich collection of new research topics and references to significant recent work making Economic Model Predictive Control an important source of information and inspiration for academics and graduate students researching the area and for process engineers interested in applying its ideas

Model Predictive Control Ridong

Zhang, Anke Xue, Furong Gao, 2018-08-14 This monograph introduces the authors work on model predictive control system

design using extended state space and extended non minimal state space approaches It systematically describes model predictive control design for chemical processes including the basic control algorithms the extension to predictive functional control constrained control closed loop system analysis model predictive control optimization based PID control genetic algorithm optimization based model predictive control and industrial applications Providing important insights useful methods and practical algorithms that can be used in chemical process control and optimization it offers a valuable resource for researchers scientists and engineers in the field of process system engineering and control engineering

Advanced Model Predictive Control Tao Zheng, 2011-07-05 Model Predictive Control MPC refers to a class of control algorithms in which a dynamic process model is used to predict and optimize process performance From lower request of modeling accuracy and robustness to complicated process plants MPC has been widely accepted in many practical fields As the guide for researchers and engineers all over the world concerned with the latest developments of MPC the purpose of Advanced Model Predictive Control is to show the readers the recent achievements in this area The first part of this exciting book will help you comprehend the frontiers in theoretical research of MPC such as Fast MPC Nonlinear MPC Distributed MPC Multi Dimensional MPC and Fuzzy Neural MPC In the second part several excellent applications of MPC in modern industry are proposed and efficient commercial software for MPC is introduced Because of its special industrial origin we believe that MPC will remain energetic in the future

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Table of Contents Model Predictive Control In The Proceb Industry

1. Understanding the eBook Model Predictive Control In The Proceb Industry
 - The Rise of Digital Reading Model Predictive Control In The Proceb Industry
 - Advantages of eBooks Over Traditional Books
2. Identifying Model Predictive Control In The Proceb Industry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Model Predictive Control In The Proceb Industry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Model Predictive Control In The Proceb Industry
 - Personalized Recommendations
 - Model Predictive Control In The Proceb Industry User Reviews and Ratings
 - Model Predictive Control In The Proceb Industry and Bestseller Lists
5. Accessing Model Predictive Control In The Proceb Industry Free and Paid eBooks
 - Model Predictive Control In The Proceb Industry Public Domain eBooks
 - Model Predictive Control In The Proceb Industry eBook Subscription Services
 - Model Predictive Control In The Proceb Industry Budget-Friendly Options
6. Navigating Model Predictive Control In The Proceb Industry eBook Formats
 - ePub, PDF, MOBI, and More
 - Model Predictive Control In The Proceb Industry Compatibility with Devices
 - Model Predictive Control In The Proceb Industry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Model Predictive Control In The Proceb Industry
 - Highlighting and Note-Taking Model Predictive Control In The Proceb Industry
 - Interactive Elements Model Predictive Control In The Proceb Industry
8. Staying Engaged with Model Predictive Control In The Proceb Industry

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Model Predictive Control In The Proceb Industry
- 9. Balancing eBooks and Physical Books Model Predictive Control In The Proceb Industry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Model Predictive Control In The Proceb Industry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Model Predictive Control In The Proceb Industry
 - Setting Reading Goals Model Predictive Control In The Proceb Industry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Model Predictive Control In The Proceb Industry
 - Fact-Checking eBook Content of Model Predictive Control In The Proceb Industry
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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