

MODEL-BASED CONTROL OF PARTICULATE PROCESSES

Panagiotis D. Christofides

Modelbased Control Of Particulate Processes

Xiang Xie

Modelbased Control Of Particulate Processes:

Model-Based Control of Particulate Processes Panagiotis D. Christofides, 2002-10-31 The interest in control of particulate processes has been triggered by the need to achieve tight distributed control of size distributions that greatly influence particulate product properties and quality Drawing from recent advances in dynamics of infinite dimensional systems and nonlinear control theory control of particulate processes using population balances has evolved into a very active research area within the field of process control This book the first of its kind presents general methods for the synthesis of nonlinear robust and constrained feedback controllers for broad classes of particulate process models and illustrates their applications to industrially important crystallization aerosol and thermal spray processes The controllers use a finite number of measurement sensors and control actuators to achieve stabilization of the closed loop system output tracking attenuation of the effect of model uncertainty and handling of actuator saturation Beginning with an introduction to control of particulate processes the book discusses nonlinear order reduction and nonlinear robust and constrained control of particulate spatially homogeneous processes and nonlinear control of spatially homogeneous particulate processes The synthesis of the controllers is performed by using geometric and Lyapunov based control techniques The book includes comparisons of the methods followed for controller synthesis with other approaches and discussions of practical implementation issues that can help researchers and engineers understand the development and application of the methods in greater depth The methods are applied to continuous and batch crystallization processes a titania aerosol reactor and a thermal spray process to regulate product size distribution The resulting benefits in closed loop performance robustness and actuator saturation handling compared to other techniques for control of particulate processes are demonstrated through computer simulations The book assumes a basic knowledge about population balances and nonlinear control Researchers and graduate students in process control particle technology and control systems theory applied mathematicians and process control engineers will find this book a useful resource

Model-Based Control of Particulate Processes Panagiotis D. Christofides, 2013-04-17 Particulate processes are characterized by the co presence of a continuous phase and a dispersed particulate phase and are widely used in industry for the manufacturing of many high value products Examples include the crystallization of proteins for pharmaceutical applications the emulsion polymerization reactors for the production of latex the aerosol synthesis of titania powder used in the production of white pigments and the thermal spray processing of nanostructured coatings It is now well understood that the physico chemical and mechanical properties of materials made with particulates depend heavily on the characteristics of the corresponding particle size distribution This fact together with recent advances in dynamics of infinite dimensional systems and nonlinear control theory has motivated extensive research on model based control of particulate processes using population balances to achieve tight control of particle size distributions This book the first of its kind presents general methods for the synthesis of nonlinear robust and constrained feedback controllers for broad classes of

particulate process models and illustrates their applications to industrially important crystallization aerosol and thermal spray processes. The controllers use a finite number of measurement sensors and control actuators to achieve stabilization of the closed loop system output tracking attenuation of the effect of model uncertainty and handling of actuator saturation.

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Table of Contents Modelbased Control Of Particulate Processes

1. Understanding the eBook Modelbased Control Of Particulate Processes
 - The Rise of Digital Reading Modelbased Control Of Particulate Processes
 - Advantages of eBooks Over Traditional Books
2. Identifying Modelbased Control Of Particulate Processes
 - 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 Modelbased Control Of Particulate Processes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modelbased Control Of Particulate Processes
 - Personalized Recommendations
 - Modelbased Control Of Particulate Processes User Reviews and Ratings
 - Modelbased Control Of Particulate Processes and Bestseller Lists
5. Accessing Modelbased Control Of Particulate Processes Free and Paid eBooks

- Modelbased Control Of Particulate Processes Public Domain eBooks
- Modelbased Control Of Particulate Processes eBook Subscription Services
- Modelbased Control Of Particulate Processes Budget-Friendly Options

6. Navigating Modelbased Control Of Particulate Processes eBook Formats
 - ePUB, PDF, MOBI, and More
 - Modelbased Control Of Particulate Processes Compatibility with Devices
 - Modelbased Control Of Particulate Processes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modelbased Control Of Particulate Processes
 - Highlighting and Note-Taking Modelbased Control Of Particulate Processes
 - Interactive Elements Modelbased Control Of Particulate Processes
8. Staying Engaged with Modelbased Control Of Particulate Processes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modelbased Control Of Particulate Processes
9. Balancing eBooks and Physical Books Modelbased Control Of Particulate Processes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modelbased Control Of Particulate Processes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modelbased Control Of Particulate Processes
 - Setting Reading Goals Modelbased Control Of Particulate Processes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modelbased Control Of Particulate Processes
 - Fact-Checking eBook Content of Modelbased Control Of Particulate Processes
 - 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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