

Model-based control of particulate processes

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Abstract

In this work, we present an overview of recently developed methods for model-based control of particulate processes. We primarily discuss methods developed in the context of our previous research work and use examples of crystallization, aerosol and thermal spray processes to motivate the development of these methods and illustrate their application. Specifically, we initially discuss control methods for particulate processes which utilize suitable approximations of population balance models to design nonlinear, robust and predictive control systems and demonstrate their application to crystallization and aerosol processes. Finally, we discuss the issues of control problem formulation and controller design for high-velocity oxygen-fuel (HVOF) thermal spray processes and close with few thoughts on unresolved research challenges on control of particulate processes.

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1. Introduction

Particulate processes (also known as dispersed-phase processes) are characterized by the co-presence of and strong interaction between a continuous (gas or liquid) phase and a particulate (dispersed) phase and are essential in making many high-value industrial products. Particulate processes play a prominent role in a number of process industries since about 60% of the products in the chemical industry are manufactured as particulates with an additional 20% using powders as ingredients. Representative examples of industrial particulate processes include the crystallization of proteins for pharmaceutical applications, the emulsion polymerization for the production of latex, the fluidized bed production of solar-grade silicon particles through thermal decomposition of silane gas, the aerosol synthesis of titania powder used in the production of white pigments, and the thermal spray processing of nanostructured

thermal barrier and wear resistant coatings. The industrial importance of particulate processes and the realization that the physicochemical and mechanical properties of materials made with particulates depend heavily on the characteristics of the underlying particle-size distribution (PSD) have motivated significant research attention over the last 10 years on model-based control of particulate processes. These efforts have also been complemented by recent and on-going developments in measurement technology which allow the accurate and fast on-line measurement of key process variables including important characteristics of PSDs (e.g., Larsen et al., 2006; Rawlings et al., 1992, 1993). The recent efforts on model-based control of particulate processes have also been motivated by significant advances in the modeling of particulate processes. Specifically, population balances have provided a natural framework for the mathematical modeling of PSDs in broad classes of particulate processes (see, for example, the tutorial article (Hulburt and Katz, 1964) and the review article (Ramkrishna, 1985)), and have been successfully used to describe PSDs in emulsion polymerization reactors (e.g., Dimitratos et al., 1994; Doyle et al., 2002), crystallizers (e.g., Braatz and Hasche, 2002; Rawlings et al., 1993), aerosol reactors (e.g., Friendlander,

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