


[DOWNLOAD](#)


Model-Based Control of Particulate Processes

By Panagiotis D. Christofides

Springer, Netherlands, 2010. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book.

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...



READ ONLINE
[1.25 MB]

Reviews

Very beneficial for all type of folks. It can be rally intriguing throgh studying time. You will like how the writer publish this ebook.

-- **Nathan Cruickshank**

Totally one of the better pdf I have at any time read through. It really is simplified but shocks within the 50 % from the ebook. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Mariano Spinka**

Other Books



Three Bavarian Dances, Op.27a: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Elgar produced orchestral arrangements of three items (Nos.1, 3 and 6) from his own set of six songs...



Suite in E Major, Op. 63: Study Score

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Composed originally in four movements during 1907-08, Foote dropped the Theme and Variations while revising the work prior...



Hussite Overture, Op. 67 / B. 132: Study Score

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Comissioned by the Committee for the Completion of the National Theatre, Dvorak composed this work in exactly one...



Czech Suite, Op.39 / B.93: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Composed rapidly during April of 1879 in the wake of his success with the two serenades (Opp.22 and...



Scherzo Capriccioso, Op.66 / B.131: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.The Scherzo capriccioso was composed in the same period (1883-84) as the Symphony No.7, Op.70 and the Piano...



In Nature s Realm, Op.91 / B.168: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Composed in 1891, V P irod (In Nature s Realm) is the first of Dvorak s three concert...