Session 5.2
Modeling of Particulate Systems

Challenges of Modelling a Population Balance Using Wavelet

J. Utomo, N. Balliu and M. O. Tade
Curtin University of Technology

Development of a Dynamic Multi-Compartment Model for the Prediction of Particle Size Distribution and Molecular Properties in a Catalytic Olefin Polymerization FBR

G. Dompazis, V. Kanellopoulos, and C. Kiparissides
Aristotle University of Thessaloniki

Distributional Uncertainty Analysis of a Batch Crystallization Process using Power Series and Polynomial Chaos Expansions

Z. K. Nagy and R. D. Braatz
Loughborough University,University of Illinois

Dynamic Evolution of the Particle Size Distribution in Particulate Processes

D. Meimaroglou, A.I. Roussos, and C. Kiparissides
Aristotle University of Thessaloniki

Nonlinear Observer for the Reconstruction of Crystal Size Distributions in Polymorphic Crystallization Processes

T. Bakir, S. Othman, G. Fevotte and H. Hammouri
Université Claude Bernad Lyon

Calculation of the Molecular Weight – Long Chain Branching Distribution in Branched Polymers

A. Krallis and C. Kiparissides
Aristotle University of Thessaloniki