

Session 6.2

Optimization and Scheduling

Modeling of NLP Problems of Chemical Processes Described by ODE's

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Optimal Multi-period Design and Operation of Multi-product Batch Plants

M. S. Moreno, J. M. Montagna, and O. A. Iribarren
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Improved Tightened MILP Formulations for Single-Stage Batch Scheduling Problems

P. A. Marchetti and J. Cerdá
Instituto de Desarrollo Tecnológico para la Industria Química

Constraint Logic Programming for Non Convex NLP and MINLP Problems

P. R. Kotecha and R. D. Gudi
Indian Institute of Technology Bombay

Heuristics for Control Structure Design

A. Heidrich and J. O. Trierweiler
Universidade Federal do Rio Grande do Sul

Algorithms for Real-Time Process Integration: One Layer Approach

M. C. A. F. Rezende, R. M. Filho and A. C. Costa
University of Campinas

Steam and Power Optimization in a Petrochemical Industry

E. G. de Fronza Magalhães, S. Tiago, and K. A. Wada,
Copesul, Universidade Federal do Rio Grande do Sul

Multiperiod Optimization Model for Synthesis, Design, and Operation of Non-Continuous Plants

G. Corsano, J. M. Montagna, P. A. Aguirre, and O. A. Iribarren
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**Dynamic Penalty Formulation for Solving Highly Constrained
Mixed-Integer Nonlinear Programming Problems**

C. M. Silva and E. C. Biscaia Jr.
Universidade Federal do Rio de Janeiro

**Application of Genetic Algorithms to the Optimization of an
Industrial Reactor**

I. R. de Souza Victorino and R. M. Filho
State University of Campinas