

## Session 8.2

### Practical Applications of Modeling and Identification

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#### **Modeling for Control of Reactive Extrusion Processes**

S. C. Garge, M. D. Wetzel, and B. A. Ogunnaike  
*University of Delaware*

#### **Factors Affecting On-line Estimation of Diastereomer Composition using Raman Spectroscopy**

S.-W. Wong, C. Georgakis, G. Botsaris, K. Saranteas,  
and R. Bakale  
*Tufts University*

#### **Modeling and Identification of Nonlinear Systems using SISO LEM-Hammerstein and LEM-Wiener Model Structures**

P. B. Fernandes, D. Schlipf, and J. O. Trierweiler  
*Universidade Federal do Rio Grande do Sul*

#### **Multivariable Fuzzy Identification Approach Applied to Complex Liquid Residues Incineration Process**

F. M. Almeida, G. Barreto, and G. L. O. Serra  
*University of Campinas*

#### **Identification of Polynomial NARMAX Models for an Oil Well Operating by Continuous Gas-Lift**

D. J. Pagano, V. D. Filho, and A. Plucenio  
*Federal University of Santa Catarina*

#### **Comparison Between Phenomenological and Empirical Models for Polymerization Processes Control**

T. F. Finkler, G. A. Neumann, N. S. M. Cardozo,  
and A. R. Secchi  
*Universidade Federal do Rio Grande do Sul*

