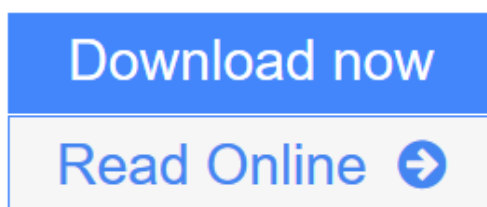




23 European Symposium on Computer Aided Process Engineering: APROS-NIMBUS: Dynamic Process Simulator and Interactive Multiobjective Optimization in Plant ... (Computer Aided Chemical Engineering)

Karthik Sindhya, Vesa Ojalehto, Jouni Savolainen, Hannu Niemistö, Jussi Hakanen, Kaisa Miettinen



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Virtual commissioning of chemical plants often involves a dynamic simulator and an optimization method. This paper demonstrates the integration of APROS, a dynamic process simulator and IND-NIMBUS, an interactive multiobjective optimization software. We implement a multiobjective concentration control problem in APROS involving conflicting objectives and employ a decision maker to interact with IND-NIMBUS and express his preference information to finally obtain his most preferred solution. The results of this study show that APROS and IND-NIMBUS can be integrated and an interactive multiobjective optimization method can help the decision maker in exploring trade-offs among conflicting objectives and available solutions, and finally choose one solution as his preferred one.

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