

Tools for Computer Aided Analysis and Interpretation of Process Simulation Results

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Résumé / Abstract

A process modelisation for results analysis is presented. This modelisation has recovered concepts already used for design (aggregation of units, pinch technology, etc) and come up with specific ones of its own (aggregation of components, process objectives, etc). The understanding of the process has been enhanced by means of objective functions and path visualisation. General or user-specified automatic checking constraints allow the engineer to concentrate on important features of the process. These techniques may be extended to other procedures (test of alternatives, etc). A prototype containing the ideas presented in this paper is processed. The next step of the concepts development is a closer study of subfunctions, and an extension of constraints checking using automatic consistency checking.

Keywords

Computer aided analysis; Numerical simulation; Graphical interface; Modeling; Hydrogenation; Dealkylation; Toluene; Hydrogen; Benzene;

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