

Observer

CiT-OBSERVER

At some stage, a simulation model becomes the accepted picture of a process. Now no longer the original modelers, but other people should make use of the model. The CiT-OBSERVER provides an easy way to create an accepted and intuitive handling of a PREDICI, PRESTO-KINETICS or PARSIVAL model.

Published applications:

- CLARIANT: Chem. Eng. Sci. xxx (2007)
- BAYER/LANXESS: Workshop Polymer reaction engineering, Hamburg (2007)

With the help of a user-defined interface and control panel the underlying simulation software can be controlled in real-time. The CiT-OBSERVER corresponds with the simulation package, sends orders and values and represents the results of a dynamic simulation on-line. In this sense the CiT-OBSERVER can serve as a control and training tool increasing the understanding of a dynamic process. The direct graphical comparison of different process scenarios provides valuable insight in the process behaviour.

The CiT-OBSERVER can also be connected to a real time process control system, presenting online process data and handing them over to the simulation package. In this way the CiT-OBSERVER and the simulation results present the actual process conditions. By starting additional "what-if" sessions independent of the real process, the user can study the effect of plant operations beforehand.

FEATURES:

- direct access to Predici/Presto-Kinetics/Parsival models
- no re-engineering or even model reduction
- open and flexible interface, easy-to-configure, no additional programming
- online training
- process observation based on process control system (PCS) data
- what-if simulations parallel to live process
- interpreter language for arbitrary user-defined entities
- user defined trend graphic for arbitrary number of graphs

The stability and robustness of CiT-Observer and CiT simulators have been proven by months of permanent operation in plants.

BENEFITS:

- improved process operation
- training of special situations and events
- deeper insight into process
- better acceptance of modelling projects

The CiT-Observer concept has been presented by Dr. Wulkow in Lyon at the control conference.