

CC-RECON
PROGRAM DESCRIPTION

Use the CHEMCAD interface to tune your simulations to match plant data. Use a single set of sensor data or a time series of data to improve the balance of your process models.

Using statistical methods, adjustable variables on the flowsheet are simultaneously changed to reconcile with values from your sensors.

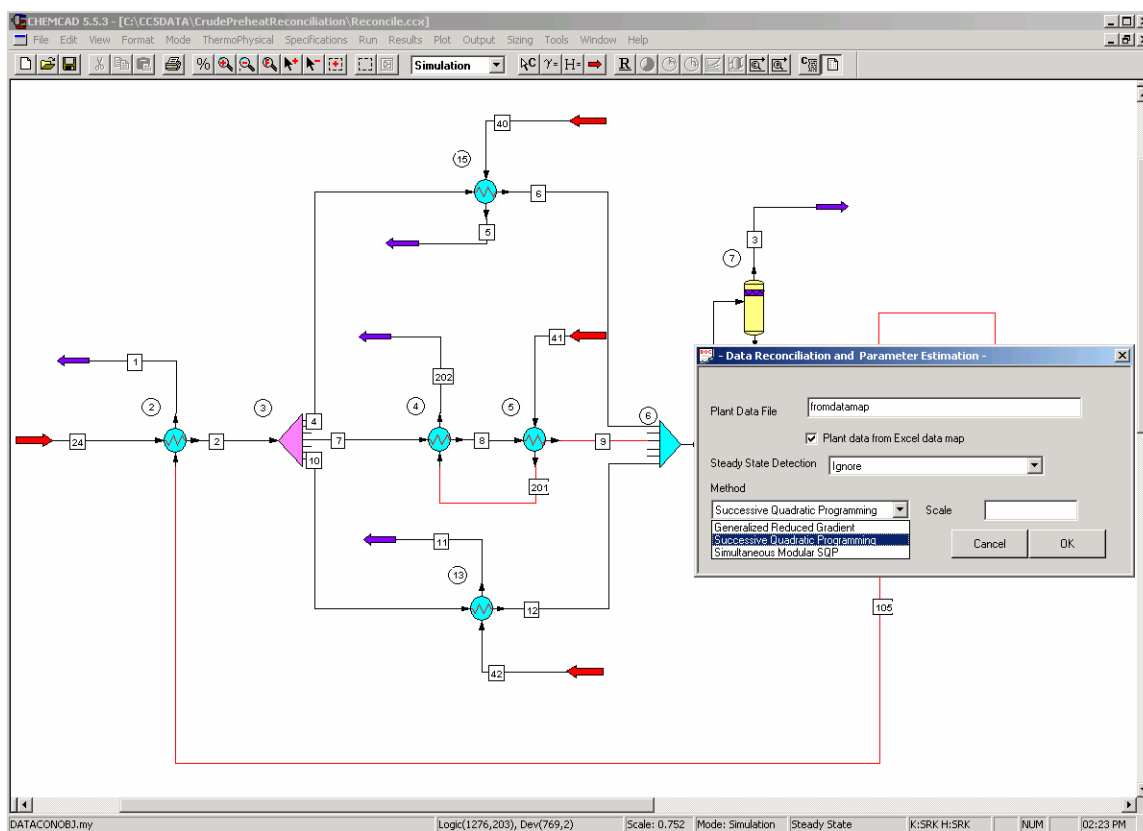
CC-RECON averages all the values from your sensors, and changes your flowsheet to find the best fit, overall, to historical data. The balanced flowsheet is a statistical fit to your sensor data, far better than trial and error methods.

Since CC-RECON is changing the flowsheet to match sensor data, the validated model will have estimated values for hard to measure parameters.

Flexible data entry allows you to input plant sensor data from text file or from Excel workbooks.

Don't trust your sensors? You can specify higher priority to sensors that are more reliable. Results from a CC-RECON calculation show error between measured sensor data and the reconciled flowsheet to help you decide which sensors may be less reliable.

Built-in steady state detection analyzes data trends to determine if your model is at steady state

SCREENSHOT

HOW CAN YOU USE CC-RECON?

Build better, validated models: Perform data reconciliation against your sensor data to make your flowsheet match your sensor data.

Perform parameter estimation variables on difficult to measure variables.

Performance monitoring using the validated model: Monitor equipment for fouling or failure

Tune your process models to actual plant conditions faster and better than by iterative hand calculations.

Use reconciled models with CC-THERM to determine exchanger fouling.

Optimize/Perform "what-if?" calculations using validated models of your process.

Operator Training: use validated models to train operators using CHEMCAD's interface or a third party interface.

GENERAL FEATURES

Flexible data file format

GRG, SQP, and Simultaneous Modular SQP methods

Interface to Excel through CHEMCAD's Excel data map functions

Simultaneous:

- Steady state (gross error) detection

- Data reconciliation

- Parameter estimation

User defined model parameters can be estimated

User defined model constraints