PMP compact - Particulate Materials Processing



Part 3

Modules of the Plant Calculation

The PMP - Software provides methods in order to use flowsheets of process engineering plants for data recording, simulation- and balance sheet calculations as well as for representations of result views. A flowsheet editor for designing plants is available in the Beta-version.

Modules: FS Disp / FS Sim Plant Calculation

The modules are based on PMP – Projects which are equipped with a flowsheet. The flow sheets are shown in a flowsheet collection.

Contains methods for

- selecting a flowsheet
- setting up flowsheets. This concerns
 - data structures
 - process descriptions
 - result views (in the flowsheet, in graphics and tables)
 - calculation defaults
 - additional information
- administrating available flowsheets
- transferring complex data structures from spread sheets
- displaying selectable detail information of material flows and process models
- stepwise calculating single processes based on material balances
- calculating material balances in process levels and circuits (simulation)
- following simulation calculations
- manual controlled optimising of flow sheets

Flowsheet Editor

This module enables the creation of flow sheets. The flow scheme will be checked and taken up into a flowsheet collection.

The module contains methods for

- selecting and placing process units
- displaying the material flow by arrow links
- analysing the flow scheme (interfaces, calculation order)
- administrating set up flowsheets in flowsheet collections

Flowsheet Collection

The flowsheet collection comprises currently 30 flow sheets. Including

- Single processes
 - merging/separating
 - comminution / coarsening
 - classifying
- open circuits
 - multi-stage classification flowsheets
- enclosed grinding circuits
 - simple grinding- and classifying circuit
 - grinding circuits for the cement grinding
 - circuits with grinding and compacting

Data base connection via a configurable export interface

There is a possibility to define the interface protocol between the data base (or MS Excel) and the PMP-Software problem-related for the data input.

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