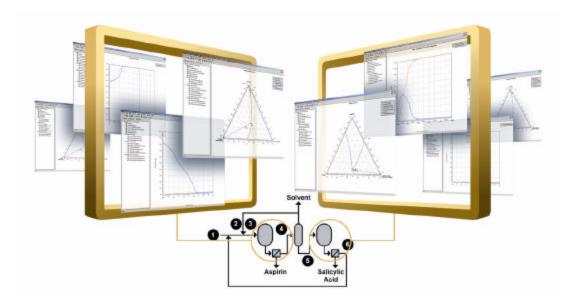
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The Functionality of SLEEK



Functionality: Value Added:

Thermodynamic database access & management

- Helps prevent loss of data and repeated experiments.
- Facilitates sharing of information among team members.
- Allows archival for future projects.

Functionality: Value Added:

Data regression for solid-liquid equilibrium

- Error checking for experimental results.
- Accurate modeling of the SLE system.
- Rigorous thermodynamic model of the phase diagram backed up by experimental results allows the user to extract knowledge from the SLE data.
- SLEEK helps optimize your experimental efforts in both quantity and quality.

Functionality:

Ability to handle polymorphs, solid-complexes, co-crystals, liquid phase reactions, and electrolytic systems

Value Added:

- Better understanding of the complexities in the phase behavior of such systems.
- Allows the user to design for, or to avoid these complexities.
- These abilities make SLEEK ideal for use in development of pharmaceutical crystallization processes.

Functionality: Value Added:

Interactive visual representation of solid-liquid phase diagrams

- Gain a better understanding and a physical sense of the process.
- Visual representation lets the user explicitly identify the crystallization regions for each component in the system.
- Visual representation also lets the user identify separation boundaries, develop process
 designs to cross the boundaries as needed and to understand the complex tradeoffs that are
 more difficult to realize and explain with words or numbers.



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Functionality: Value Added:

Design & sensitivity analysis for continuous crystallizers

- Maximize the desired product recovery.
- Calculate the volume and heat duty required for the desired output.
- Evaluate more economical designs before building the equipment.

Functionality:

Particle size distribution (PSD) calculations with fines dissolution and product classification capabilities

Value Added:

- Obtain better product quality.
- Reduce costs of downstream processing for solid-liquid separation, washing, drying, handling, and transport.

Functionality: Value Added:

Operating policies, design & PSD calculations for batch crystallizers

- Understand the time dependence of batch crystallizer output.
- Evaluate feasible alternatives before lengthy or costly experimentation is performed.
- Eliminate infeasible alternatives.

Functionality: Value Added:

Solvent/solubility comparison capability

- Compare the solubility of a solute in different pure component solvents
- Screen the list of pure component solvents based on melting point, eutectic temperature, and solubility based constraints to obtain the most suitable solvents.

Functionality: Value Added:

Solubility study capability

- Calculate the solubility of a solute in mixture of solvents
- Understand how solubility changes with composition of the solvent
- Identify the optimal solvent composition based on solubility requirements.

Functionality: Value Added:

User friendly architecture & interface

- Less time is spent learning how to use the application.
- Intuitive organization of input information and results.
- Faster delivery of results and reduced work time.