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AFT xStream 2

Model transient heat transfer in piping walls, including internal/external convection and thermal capacitance for more realistic simulation

The Library Manager (previously the Database Manager) has been completely revised and now offers a consolidated way to use and customize libraries of fluids, pipe materials, junctions, etc.

Updated Analysis Setup window with new areas and better user feedback of items changed or which still need to be defined

Finite tank now allows specified transient heat transfer into or out of the tank, specified tank volume change over time, and more flexible initial conditions

Warnings, errors and Design Alerts shown in the Output are now color coded and organized in a prioritized list for quick review

New equation of state options are available for Soave-Redlich-Kwong and Peng-Robinson

Run batch runs "silently" in the background to minimize interruptions as each scenario completes

AFT xStream

NEW Product!

A specialized Method of Characteristics is used to solve the transient mass, momentum and energy equations of pipe flow

Built-in steady-state solver to automatically initialize system before the transient

Use the NEW online Help System for centralized documentation and examples from your browser

Generates force imbalance files that can be automatically read into CAESAR II®, ROHR2, AutoPIPE and TRIFLEX® pipe stress dynamic models

Multi-Scenario Comparison: Data can be compared between multiple scenarios to show changes made

Automatic pipe sectioning based on steady-state acoustic velocities

Pulsation Frequency Analysis Add-on Module identifies pipe acoustical frequencies to avoid resonance from excitation, especially in systems with reciprocating compressors.

Full list of New Features you can use in AFT xStream™ 2

Significant New Features

- Model transient heat transfer in piping walls, including internal/external convection and thermal capacitance for more realistic simulation
- Finite tank now allows specified transient heat transfer into or out of the tank, specified tank volume change over time, and more flexible initial conditions
- Updated Analysis Setup window with new areas and better user feedback of items changed or which still need to be defined
- Warnings, errors and Design Alerts shown in the Output are now color coded and organized in a prioritized list for quick review
- The Library Manager (previously the Database Manager) has been completely revised and now offers a consolidated way to use and customize libraries of fluids, pipe materials, junctions, etc.

Overall

- Customize the display names for engineering units of measure to accommodate language or notation differences
- New equation of state options are available for Soave-Redlich-Kwong and Peng-Robinson

Workspace

- Contextually update Junction Special Conditions directly from the toolbar
- Reset Pipes and Junctions as 'Same as Parent Scenario' during specification from the Workspace menu

Output

- Design Alerts are grouped together on their own tab in the General Output section for easy identification
- Warnings, Cautions and Design Alerts are now displayed for all scenarios when using the Multi-scenario Output feature
- Save time with enhanced Output window data loading speed

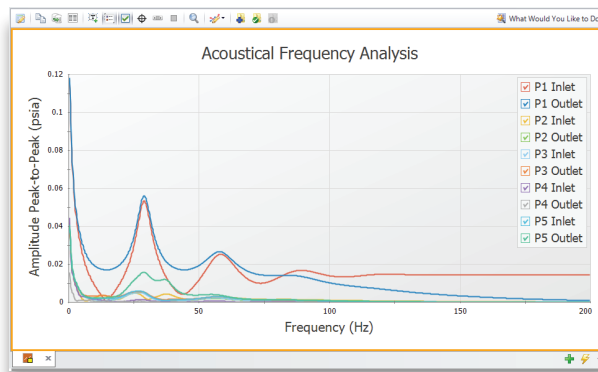
Other

- Batch runs of multiple scenarios now report the number of Warnings and Design Alerts in each Scenario
- Run batch runs "silently" in the background to minimize interruptions as each scenario completes
- Select Special can search for text in the Pipe and Junction Notes
- The Solution Progress window will indicate which junction had a special condition change during the run causing the model to be rerun
- Heat transfer parameters are included in the Visual Report

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PFA Pulsation Frequency Analysis Add-On Module

Helps identify pipe acoustical frequencies to avoid resonance from excitation, especially in systems with positive displacement compressors.



PFA automates most of the pulsation analysis process:

1. Build the model in AFT xStream
2. Specify the pulse characteristics
3. Apply the forcing function to the source of the pulse
4. Run the model
5. Generate a Bode plot, displaying Frequency vs. Magnitude