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AFT xStream 3.0.1106

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AFT xStream 3.0.1106:

AFT xStream emerges as a robust fluid dynamic simulation tool tailored for addressing high-speed, acoustic transients prevalent in steam and gas piping systems. By accurately simulating these events, it mitigates uncertainties in design and operations, saving both time and resources.

Key Applications:

- **High-Speed Transient Simulation**: Accurately simulate high-speed transients, even under choked flow conditions, within steam and gas piping systems.
- System Response Evaluation: Assess the overall system response and transient pipe forces following steam and gas turbine trips.
- Predictive Capabilities: Predict transient supply pressures, temperatures, and flows to operating gas compressors
 and turbines, particularly when one trips offline.
- Comprehensive Modeling: Simulate tank blowdowns, charging processes, and the time required to reach desired
 pressures. Additionally, predict transient pressures and flows resulting from heat exchanger tube ruptures.
- Flexible Input Handling: Easily modify system input data, including transient valve positions, compressor operations, control set points, pressures, temperatures, and more.
- Transient Initiation: Initiate transients based on either predefined time intervals or specific events occurring within the
- Steady-State Solver Integration: Incorporates a built-in steady-state solver to automatically initialize the system before transient analysis.
- Automatic Pipe Sectioning: Automatically segments pipes based on steady-state acoustic velocities for enhanced accuracy.
- Compound Transient Event Logic: Utilizes compound transient event logic to effectively model complex control sequences.
- Scenario Manager: Tracks all design variants and operational possibilities within a single model file for streamlined management.
- Graphing and Reporting Integration: Offers integrated graphing and reporting tools for comprehensive analysis.
- Animation Tools: Provides animation tools for visually interpreting complex transient interactions.
- Compatibility with Pipe Stress Models: Generates force imbalance files compatible with leading pipe stress dynamic models such as CAESAR II®, ROHR2, AutoPIPE, and TRIFLEX®.
- User-Friendly Interface: Offers a choice between a 2D flow diagram or isometric view interface for enhanced user experience
- Fluid and Fittings Libraries: Includes built-in libraries of fluids and fittings, including NIST REFPROP and ASME Steam Tables, which can be extended and customized.
- Chempak™ Add-On Utility: Provides access to a thermophysical database of nearly 600 gases through the
 Chempak™ add-on utility, enabling the definition of non-reacting pre-mixtures and dynamic flow mixing simulation.





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