



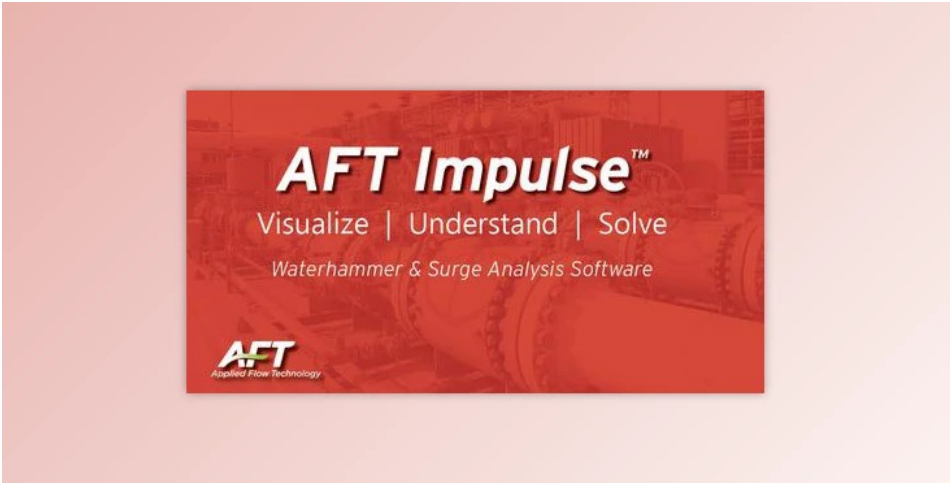
### AFT Impulse 10.0.1110

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#### AFT Impulse 10.0.1110:

AFT Impulse stands out as a robust software solution for dynamic simulation and analysis, specifically geared towards calculating pressure surge transients in liquid piping systems caused by waterhammer.

- **Comprehensive Component Modeling:** Easily model a diverse range of system components and surge devices.
  - **Dynamic System Understanding:** Gain insight into the transient response of your system, predicting how valves, pumps, and other elements interact dynamically.
  - **Vapor Cavitation Consideration:** Evaluate the impact of pressure surges due to vapor cavity collapse by accurately modeling vapor cavitation and liquid column separation.
  - **Safety Feature Validation:** Validate the design of safety features to ensure the creation of safer and more cost-effective pipe systems.
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- **Advanced Transient Solver:** Utilizes the Method of Characteristics for accurate transient analysis.
  - **Steady-state Solver Integration:** Seamlessly transfers initial conditions to transient analysis, employing a modified Newton-Raphson matrix iteration for steady-state solutions.
  - **Detailed Pump Inertial Modeling:** Incorporates advanced four-quadrant methods for precise modeling of pump trips and start-ups.
  - **Fluid and Fittings Library:** Access a built-in library of fluids and fittings for easy modeling.
  - **Cavitation Modeling:** Models liquid column separation caused by transient cavitation and offers extensive cavitation modeling.
  - **Scenario Manager:** Track various design variants and operational possibilities within a single model file, facilitating data linkage.
  - **Relief Valve Modeling:** Includes comprehensive relief valve modeling capabilities.
  - **Integrated Graphing and Reporting:** Offers integrated graphing and reporting features for convenient analysis.
  - **Animation and Video Creation:** Utilize animation features to graph transients dynamically and create video files for result sharing.
  - **Compatibility with Pipe Stress Models:** Generates force imbalance files compatible with CAESAR II® and TRIFLEX® pipe stress dynamic models.
  - **Built-in Intelligence:** Provides guidance for building improved models.



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