

AFT Impulse™

Modules

Enhance Your Transient Analysis with Slurry and Pulsation Modeling

Building on the foremost software for calculating pressure transients in piping systems, the AFT Impulse add-on modules extend capabilities into these areas:

- **Slurry Modeling** - Models the effects of waterhammer on systems containing settling slurries
- **Pulsation Frequency Analysis** - Helps you identify and avoid resonant frequencies in systems, especially in those caused by positive displacement pumps

AFT Impulse is the only commercial software solution that can model both non-settling and settling non-Newtonian waterhammer.

These modules have been designed specifically for AFT Impulse and can work with existing AFT Impulse models.



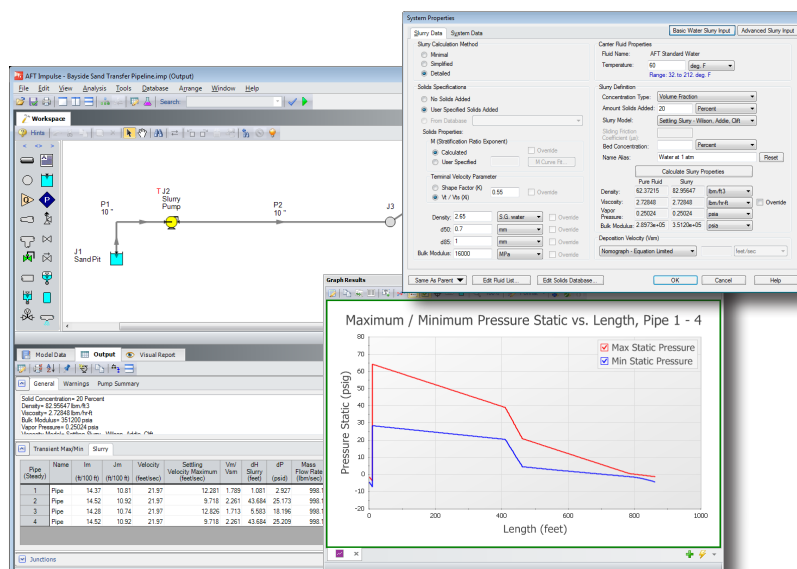
Settling Slurries SSL Module

Benefits

- Expertly handle slurry system challenges
- Avoid system failures
- Prevent plugged pipes and misapplied pumps
- Improve safety by understanding slurry waterhammer transients

Capabilities

- Solutions from the leading Wilson/GIW method
- Shareable database of solid particle properties
- Slurry pump de-rating using Warman or ANSI/HI methods
- Produces output reports with settling velocity ratio, slurry volume/mass flows and other slurry parameters
- Calculates wave speeds for liquid-solid mixtures





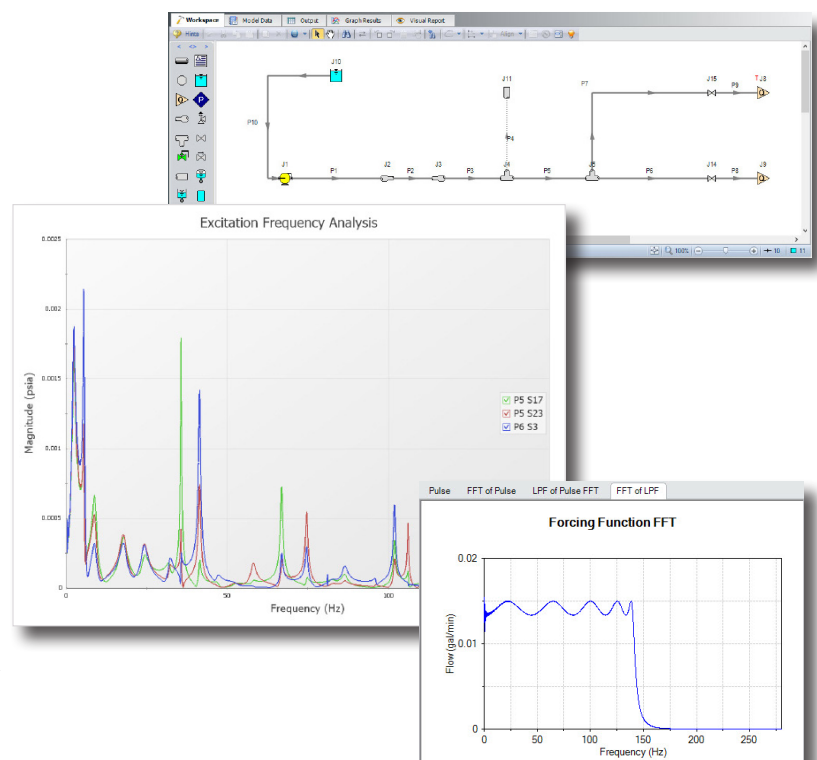
Pulsation Frequency Analysis PFA Module

Benefits

- Avoid system weakening, damage and/or failure
- Reduce operating and maintenance costs
- Minimize disruptions in production processes

Capabilities

- Understand and predict resonant frequencies in systems that use positive displacement pumps so they can be avoided in operation
- Automatically create scenarios to evaluate how large pressure pulsations are when operating at the resonant frequencies
- Compare the pressure pulsation magnitudes to that allowed by API Standard 674 so you can check compliance with this standard



Get the most out of your AFT Impulse software investment

Training by our professional staff helps you learn about the software's wide range of capabilities and modeling techniques. Our seminars review fundamental theory, basic through advanced techniques and hands-on modeling. Whether you're a new or experienced user, you'll find an AFT Impulse seminar a worthwhile investment of your time. AFT offers regularly scheduled seminars at our offices in the USA. Seminars can also be held at your facility. Visit www.aft.com/learning-center/seminars for more information.

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