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Parametric resonance of a fluctuation fluid flow heat exchanger system

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Highlights

1. Parametric instability in a component cooling water heat exchanger system was investigated.
2. Results indicate that the fluid flow may decrease the natural frequency of this system and the critical flow speed can be found if the first natural frequency of system drops into zero.
3. The magnitude of the fluid flow is an important parameter in determining the instability of a heat exchanger system.

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