

To reduce the adverse damage caused by cavitation phenomena to the hydraulic machinery, such as surface erosion of the equipment, increased mechanical vibration, and ...

Towards the pumped-hydro energy storage: Improvement on the flow instability and cavitation performance with application-oriented forward skew angle of impeller blades

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In reversible pump-turbines, cavitation erosion can be found at the leading edge of stay vanes (SVs), which is generally considered related to the undesirable flow regime in the double radial ...

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The cavitation intensity of a Venturi is primarily influenced by shape parameters such as the convergent angle ( $\theta_1$ ), throat diameter ( $d_{th}$ ), throat length ( $l_{th}$ ), and divergent angle ( $\theta_2$ ). However, the impact of these ...

The recovery of the latter cavitation energy drives the overall process, which has implications for the refinement of gas-storage materials and the understanding of biological receptors.

Article History imperative. Pumped storage units excel in this context, owing to their unique advantages. During the load-shedding process of the pump turbine, the intricate flow patterns ...

Abstract Centrifugal pump is widely used as a storage pump in energy storage station, and its cavitation

phenomenon in start-up and shut-off processes can lead to vibration, ...

Cavitation is quite common during centrifugal pump operation which degrades the safety and stability of the pumped storage power station. Instant prognostication of incipient cavitation and...

A numerical investigation on energy characteristics of centrifugal pump for cavitation flow using entropy production theory [J]. International Journal of Heat and Mass Transfer, 2023, 201: 123591.

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