

Fundamentals Of Cavitation Fluid Mechanics And Its Applications



Fundamentals Of Cavitation Fluid Mechanics

If the bubbles collapse against a solid boundary (Impeller Blades, Vanes, etc.), the inrush of water causes high local impact forces which may cause damage to these surfaces. Alternatively if cavitation occurs in combination with chemical attacks within dirty water, then the surfaces may become eroded or pitted.

Cavitation - Fundamentals - Fluid Mechanics - Engineering ...

Cavitation is generated not only in water, but also in any kind of fluid, such as liquid hydrogen. The generation of cavitation can cause severe damage in hydraulic machinery. Therefore, the prevention of cavitation is an important concern for designers of hydraulic machinery.

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Fluids have the ability to transport matter and its properties as well as transmit force, therefore fluid mechanics is a subject that is particularly open to cross fertilisation with other sciences and disciplines of engineering.

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