

Cavitation state of knowledge [papers]

American Society of Mechanical Engineers - Vortex Cavitation



Description: -

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Notes: Includes bibliographies.

This edition was published in 1969



Filesize: 59.67 MB

Tags: #CAVITATION #EROSION

Cavitation model of the initial stage of Big Bang

The term cavitation originally coined by R. Hydrogen bubbles produced by cathodic protection mitigate the effect of imploding cavitation bubbles.

A vibration cavitation sensitivity parameter based on spectral and statistical methods — the UWA Profiles and Research Repository

A Cavitation Susceptibility Meter With Optical Cavitation Monitoring—Part Two: Experimental Apparatus and Results

Sacrificial anodes, such as zinc or magnesium, can also be used. Moreover, when temperature is close to the boiling point of the solvent, cavitation bubbles are generated more easily than at low temperature; however their implosion capacity is reduced.

Cavitation

They found that cyclic cavitation-corrosion wear processes on high velocity oxy-fuel HVOF carbide coatings based on Cr, Cr—Zr, Cr—Nb, Cr—Si, and Nb were enhanced by 10—20% in NaCl solutions compared with pure water.

Collapse and cavitation during the drying of water

A simulation of the oscillation of a single, 4 μm microbubble in a compliant, 6 μm blood vessel, driven at 1. Many causes can contribute to this.

Collapse and cavitation during the drying of water

A new method of vibration cavitation detection is proposed in this paper, based on adaptive octave band analysis, principal component analysis and statistical metrics. Cavitation is the formation, growth, and subsequent collapse of the bubbles in water by using ultrasonic irradiation i. Results were compared to knowledge known about the state of the pump, and the classification of the pump according to ISO 10816.

Collapse and cavitation during the drying of water

PY - 2015 Y1 - 2015 N2 - Cavitation is one of the main problems reducing the longevity of centrifugal pumps in industry today. As power is increased substantially above the cavitation threshold, cavitation intensity levels off; the cavitation effect is somewhat self-limiting because existing cavitation bubbles prevent the effective transmission of sound waves required to produce additional cavitation bubbles.

CiteSeerX — Recent observations on cavitation and cavitation noise

Diffusion is proportional to the surface area of the bubble; thus, for a stably oscillating bubble, more air diffuses in during the rarefaction portion of the pressure wave, wherein the internal pressure of the bubble is low, then diffuses out during the compression portion of the wave, wherein the internal pressure is high; during rarefaction, the bubble is large and has a larger surface area than during compression Leighton, 1994, p.

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