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The Acoustic Bubble

The Acoustic Bubble describes the interaction of acoustic fields with bubbles in liquid. The book consists of five chapters. Chapter 1 provides a basic introduction to acoustics, including some of the more esoteric phenomena that can be seen when high-frequency high-intensity underwater sound is employed. Chapter 2 discusses the nucleation of cavitation and basic fluid dynamics, while Chapter ...

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The Acoustic Bubble skillfully explains the physical processes involved in cavitation both by analogy and formulation, making the concepts accessible to those with a minimal background in mathematics. This book will be of great interest to those engaged in research in a wide range of areas, from sonochemistry to the sensitization of explosives. Offres spéciales et liens associés. Outlet ...

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The Acoustic Bubble skillfully explains the physical processes involved in cavitation both by analogy and formulation, making the concepts accessible to those with a minimal background in mathematics. This book will be of great interest to those engaged in research in a wide range of areas, from sonochemistry to the sensitization of explosives. Readership. Graduates and researchers in acoustics ...

The Acoustic Bubble - 1st Edition - Elsevier

The final chapter deals with the real behavior of acoustic bubble systems. That includes topics such as detection of bubbles, bubble motion and stabilization, and use of bubbles in ultrasonic surgery. And, of course, sonoluminescence, for which there is a discussion of mechanisms as well as what is now a particularly, um, hot topic, temperatures of imploding bubbles. I enjoyed reading this ...

Amazon.com: The Acoustic Bubble (9780124124981): Leighton ...

The Acoustic Bubble T. G. Leighton "This volume deals with the interaction of acoustic fields with bubbles in liquids, with emphasis on the principles of cavitation--the generation of bubbles in liquids by rapid changes, such as those introduced by ultrasound.

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The wide range of important applications concerning the acoustic interactions of bubbles necessitates a book of this form which, utilising analogy, description, and formulation, gives a 'physical feel' for the phenomena, whilst also providing thoroughly for mathematically adept readers.

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The Acoustic bubble, Academic Press, London. Article (PDF Available) in Ultrasonics Sonochemistry 10:149-156 · May 1997 with 2,334 Reads How we measure 'reads' A 'read' is counted each time ...

(PDF) The Acoustic bubble, Academic Press, London

Sonochemistry and the Acoustic Bubble provides an introduction to the way ultrasound acts on bubbles in a liquid to cause bubbles to collapse violently, leading to localized 'hot spots' in the liquid with temperatures of 5000° celcius and under pressures of several hundred atmospheres.

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The Acoustic Bubble skillfully explains the physical processes involved in cavitation both by analogy and formulation, making the concepts accessible to those with a minimal background in mathematics. This book will be of great interest to those engaged in research in a wide range of areas, from sonochemistry to the sensitization of explosives.

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The acoustic bubble: Ocean, cetacean and extraterrestrial acoustics, and cold water cleaning. T G Leighton. Published under licence by IOP Publishing Ltd Journal of Physics: Conference Series, Volume 797, conference 1

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The Acoustic Bubble skillfully explains the physical processes involved in cavitation both by analogy and formulation, making the concepts accessible to those with a minimal background in mathematics. This book willbe of great interest to those engaged in research in a wide range of areas, from sonochemistry to the sensitization of explosives.

The Acoustic Bubble : T.G. Leighton : 9780124419216

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The wide range of important applications concerning the acoustic interactions of bubbles necessitates a book of this form which, utilising analogy, description, and formulation, gives a 'physical feel' for the phenomena, whilst also providing thoroughly for mathematically adept readers. The first half of the book introduces and draws together acoustics, cavitation nucleation and associated ...

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The Acoustic Bubble. By T. G. Leighton. Academic Press, 1994. 613 pp. £95. ISBN 0-12-441920-8. - Volume 272 - D. H. Peregrine

The Acoustic Bubble. By T. G. Leighton. Academic Press ...

In order to confirm that, in the lower range of acoustic power used, the bubble behaved as a linear damped oscillator and to find its resonance frequency, we measured from each frame of a high-speed movie the displacement of the point B of figure 2 as well as that of the gas-liquid-solid contact line. With these data, by assuming a truncated spherical shape for the gas-liquid interface ...

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