



The Acoustic Bubble

T Leighton

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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 3 draws together the acoustics and bubble dynamics to discuss the free oscillation of a bubble and acoustic emissions from such activity. The acoustic probes that are often applied to study the behavior of a bubble when an externally-applied acoustic field drives it into oscillation is deliberated in Chapter 4. The last chapter outlines a variety of effects associated with acoustically-induced bubble activity. The bubble detection, sonoluminescence, sonochemistry, and pulse enhancement are also covered.

This publication is a good reference for physics and engineering students and researchers intending to acquire knowledge of the acoustic interactions of acoustic fields with bubbles.

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