

# **Download Acoustic Characterization Of Contrast Agents For Medical Ultrasound Imaging**

Contrast agents for medical ultrasound imaging is a field of growing interest. A large amount of literature has been published on the medical applications of such contrast agents. However, there is no textbook giving a broad overview of the physics and acoustics of the agents. This monograph aims to fill this gap. The book consists of nine chapters. The first 3 chapters give a broad overview of the acoustic theory for bubble-sound interaction, both linear and nonlinear. Most contrast agents are stabilized in a shell, and this shell can have a strong influence on the interaction between the bubbles and the ultrasound. Ultrasound imaging is a common modality in clinical examination and biomedical research, but has not played a significant role in molecular imaging for lack of an appropriate contrast agent.

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