



# Ultrasound Imaging and Therapy (Imaging in Medical Diagnosis and Therapy)

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### Ultrasound Imaging and Therapy (Imaging in Medical **Diagnosis and Therapy)**

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Up-to-Date Details on Using Ultrasound Imaging to Help Diagnose Various Diseases

Due to improvements in image quality and the reduced cost of advanced features, ultrasound imaging is playing a greater role in the diagnosis and image-guided intervention of a wide range of diseases. Ultrasound Imaging and Therapy highlights the latest advances in using ultrasound imaging in imageguided interventions and ultrasound-based therapy. The book presents current and emerging techniques, identifies trends in the use of ultrasound imaging, and addresses technical and computational problems that need to be solved.

The book is organized into three sections. The first section covers advances in technology, including transducers (2-D, 3-D, and 4-D), beamformers, 3-D imaging systems, and blood velocity estimation systems. The second section focuses on diagnostic applications, such as elastography, quantitative techniques for therapy monitoring and diagnostic imaging, and ultrasound tomography. The final section explains the use of ultrasound in image-guided interventions for image-guided biopsy and brain imaging.



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