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Ultrasound or ultrasonography is a medical imaging technique that uses high frequency sound waves and their echoes.

The technique is similar to the echolocation used by bats, whales and dolphins, as well as SONAR used by submarines .

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Ultrasound scanning is an interactive procedure involving the operator, patient, and ultrasound instruments. Although the physics behind ultrasound generation, propagation, detection, and transformation into practical information is rather complex, its clinical application is much simpler.

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Gain a complete understanding of sonography physics and instrumentation related to clinical practice. Technology for Diagnostic Sonography provides clear, in-depth coverage of physics principles, ultrasound transducers, pulse echo instrumentation, Doppler instrumentation, clinical safety, and quality control.

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