



Technology for Diagnostic Sonography

Wayne R. Hedrick

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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. It includes the latest information on real-time imaging techniques, plus a comprehensive discussion of image artifacts. With wide-ranging online review questions, it also offers ample opportunities to assess your learning progress. Written by sonography and testing expert Wayne Hedrick, **Technology for Diagnostic Sonography** simplifies this difficult topic and allows you to demonstrate your knowledge of physics and instrumentation on exams with the ultimate goal of preparing you for success in clinical practice.

- **A focus on essential physics and instrumentation** provides the exact technical content you need to prepare for clinical sonography practice.
- **Accessible, conversational writing style with real-world analogies** explains physics concepts and makes this difficult topic less intimidating.
- **Examples and sample problems** help you make the connection between theory and practical applications.
- **The latest information on equipment and scanning methods** ensures an understanding of how to competently and safely use ultrasound instrumentation.
- **Comprehensive discussion of image artifacts** with illustrative examples helps you recognize and eliminate artifacts.
- **Detailed description of performance testing with tissue mimicking phantoms** allows assessment of the proper operation of B-mode scanners.
- **Practical guidance on the clinical use of mechanical index and thermal index** enables practice of the ALARA principle when scanning patients.
- **Full-color format** shows scans as they appear in the clinical setting.
- **Key terms and other learner-friendly features** focus your study on important information.
- **Summaries of essential principles and equations** reinforce the most important concepts.
- **Extensive review questions on a companion Evolve website** allow realistic assessment of your knowledge.

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