



Sonography Principles and Instruments, 8e (Diagnostic Ultrasound: Principles & Instruments (Kremkau))

By Frederick W. Kremkau PhD



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The 8th edition of Kremkau's **Sonography Principles and Instruments** concisely and comprehensively covers the essential aspects of sonography physics and technology, presenting state-of-the-art content in a dynamic, highly visual format. Confidently prepare for the challenges of practice with a clear understanding of how diagnostic sonography works, including Doppler, artifacts, safety, quality assurance, the latest technology, and more.

- **Essential coverage of physics and ultrasound** helps you prepare for the ARDMS SPI exam.
- **Straightforward explanations** simplify complex content.
- **Key Points** highlight the most important information to help you study more efficiently.
- **Learning features** such as chapter outlines, learning objectives, bulleted chapter summaries, and a glossary of sonography physics terms make difficult concepts easier to review and understand.
- **End-of-chapter exercises** test your knowledge and understanding with a mix of true-or-false, fill-in-the-blank, multiple choice, and mathematical questions.
- **A mathematics appendix** provides fast, efficient access to a *List of Symbols*, a *Compilation of Equations*, and a *Mathematics Review*.
- **A full-color design** depicts more than 200 high-quality ultrasound scans similar to what you'll encounter in the clinical setting.
- **Updated scans** from the most current equipment and updated content on 3D imaging, contrast, elastography, and imaging artifacts provide all the information necessary to be consistent with current technology.
- **Full-color photos** of common instruments and control panels familiarize you with the devices you'll use in practice.
- **Updated risk and safety statements** help you ensure compliance with current national standards.
- New outline and presentation of materials reflect the **2009 ARDMS Sonography Principles and Instrumentation (SPI) examination**.

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Review

"I would certainly recommend this publication both to those new to the area of diagnostic ultrasound and those wishing to instruct or train individuals. All in all, this a useful textbook for any ultrasound department, and for students entering this area."

Ultrasound, December 2011

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