



# Sonography Principles and Instruments

*Frederick W. Kremkau*

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## Sonography Principles and Instruments Frederick W. Kremkau

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- **Essential coverage of physics and sonography** prepares you for the physics portion of the American Registry for Diagnostic Medical Sonography (ARDMS) certification exam.
- **Current technology content**, including the continuing progression of contrast agents and 3D and the more general aspects of transducers and instruments, helps you better comprehend the text.
- **Straightforward explanations** simplify complicated concepts.
- **Learning objectives at the beginning of every chapter** give you a measurable outcome to achieve.
- **Key terms** provide you with a list of the most important terms at the beginning of each chapter.
- **Key Points**, called out with an icon and special type, highlight the most important information to help you study more efficiently.
- **Bulleted reviews at the end of each chapter** identify key concepts covered in that chapter.
- **End-of-chapter exercises** test your knowledge and understanding with a mix of true/false, fill-in-the-blank, multiple choice, and matching questions.
- **Glossary of key terms at the end of the book** serves as a quick reference, letting you look up definitions without having to search through each chapter.
- **Appendices**, including a List of Symbols, Complication of Equations, and Mathematics Review, equip you with additional resources to help comprehend difficult concepts.
- **An Evolve site with student resources** enhances your learning experience.
- **A full-color design** depicts over 120 high-quality ultrasound scans similar to what you will encounter in the clinical setting.
- **NEW! All-new content on elastography, shear wave imaging, acoustic radiation force impulse imaging (ARFI), volume imaging, power M-mode Doppler in TCD, miniaturization, and newer acquisition technique in Epic System** keeps you in the know.
- **NEW! Updated instrument output data and official safety statements** ensure you are current with today's technology.
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