[PDF] Sonography Principles And Instruments, 9e

Frederick W. Kremkau PhD - pdf download free book



Books Details: Title: Sonography Principles and Ins Author: Frederick W. Kremkau PhD Released: Language: Pages: 304 ISBN: 0323322719 ISBN13: 9780323322713 ASIN: 0323322719

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Description:

Learn how diagnostic ultrasound works, and find out how to properly handle artifacts, scan safely, evaluate instrument performance, and prepare for registry examinations, with the market-leading **Sonography Principles and Instruments, 9th Edition.** It concisely and comprehensively covers the essential aspects of ultrasound physics and instrumentation like Doppler, artifacts, safety, quality assurance, and the newest technology — all in a dynamic, highly visual format for easy

review of key information. Dr. Kremkau, unlike others, uses extensive exam questions, over 1,000 high-quality illustrations, and only the most basic equations to simplify complicated concepts, making this text a highly respected reference for sonography students and professionals.

- 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.
- **NEW! Updated art added to necessary chapters** gives you an up-to-date representation of what you will encounter in the clinical setting.

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