



Essentials of Ultrasound Physics: The Board Review Book

Frank R. Miele, MSEE

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Frank Miele, the highly acclaimed author of *Ultrasound Physics and Instrumentation, 4th Edition*, leads you through the key concepts of ultrasound physics in this unique NEW board preparation guide. Each brief chapter begins with a critical concept summary, followed by typical board questions. A thorough explanation is included with each question to not only prepare you for your exam but to improve your command of the subject. By providing an inside look at the key concepts and the test questions most often seen by exam takers, *Essentials of Ultrasound Physics: The Board Review Book* gives you the edge on your credentialing exam. This paperback book comes with 15 AMA/PRA Category 1 CMEs! AMA/PRA Category 1 CMEs are accepted by both ARDMS and CCI. Table of Contents: Introduction, Chapter One Developing a Test-Taking Strategy, Chapter Two Sound and Waves, Chapter Three Interactions with the Body (Attenuation) and Contrast, Chapter Four Timing and Pulsed Operation (PW) and Bioeffects, Chapter Five Transducers and Image Formats, Chapter Six System Controls and Imaging, Chapter Seven Doppler Theory and Application, Chapter Eight, Imaging Artifacts, Chapter Nine Bioeffects, Chapter Ten Quality Assurance, Chapter Eleven Hemodynamics, Appendix A Mathematics, Appendix B Ultrasound Assumptions and Related Artifacts, Appendix C Table of Acoustic Values, Appendix D Exam Formats, Appendix E Index, Appendix F CME Materials, Appendix G Variables Appendix H Equations.

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