



Essentials of Ultrasound Physics: The Board Review Book

By 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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Essentials of Ultrasound Physics: The Board Review Book By Frank R. Miele, MSEE Bibliography

- Sales Rank: #1118237 in Books
- Published on: 2008-03-14
- Number of items: 1
- Dimensions: 9.00" h x 1.00" w x 6.00" l,
- Binding: Paperback
- 370 pages



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Editorial Review

Review

I can not thank you enough for your book *Essentials of Ultrasound Physics: The Board Review Book*. Never have I come across a more complete study guide that was so enjoyable and easy to understand! I would never have grasped the concepts necessary to truly understand ultrasound physics had it not been for your book. I found the figures to be extremely helpful and greatly appreciated the practice questions and answers throughout. I highly recommend this text to anyone preparing for the ASCEXAM and to anyone else interested in furthering their understanding of ultrasound physics --Kristen M. Andresen, MD

Frank Miele's, *Essentials of Ultrasound Physics: The Board Review Book* and his *Unifying Ultrasound Physics Review* video on DVD were the perfect resources for obtaining the RPVI certificate. --L. Philipp Wall, MD

I studied in just the way Frank outlined in *Ultrasound Physics and Instrumentation, 4th Edition*. I even went one step further and bought *Essentials of Ultrasound Physics: The Board Review Book* written by Frank Miele. That book....also summed it up for me and made it so much easier to understand Ultrasound Physics!!! I mean, actually UNDERSTAND and not just memorize. I found myself applying all these concepts to everyday life at work and it is so simple! --Ana Mendez-Pettigrew, RDCS

About the Author

Frank graduated cum laude from Dartmouth College with a triple major in physics, mathematics, and engineering. While at Dartmouth, he was a Proctor Scholar and received citations for academic excellence in comparative literature, atomic physics and quantum mechanics, and real analysis. After co-teaching a course in digital electronics at Dartmouth, Frank was a research and design engineer and project leader, designing ultrasound equipment and electronics for more than ten years. Frank has been the vice president of R&D and chief scientist for a medical device company. As a designer of ultrasound, he has lectured across the country to sonographers, physicians, engineers, and students. Frank is the author of *Ultrasound Physics and Instrumentation, 4th Edition*, produced multiple educational videos, created the patented Pegasus ExamSim Suite series and the analysis algorithm method and apparatus for evaluating educational performance. He has also serves on the faculty for the Society of Vascular Technology and is credited with several ultrasound and medical device patents, trade secrets, and publications.

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