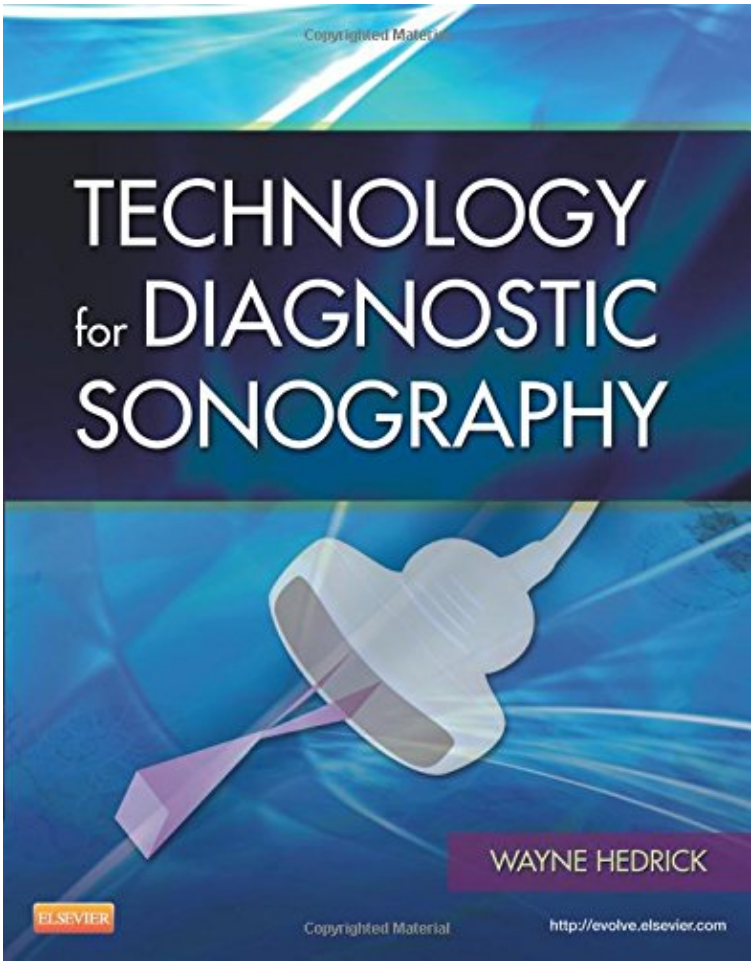
Technology for Diagnostic Sonography, 1e

Wayne R. Hedrick PhD
*ebooks | Download PDF | *ePub | DOC | audiobook*



#1065343 in Books 2012-02-22 2012-02-22Original language:EnglishPDF # 1 10.88 x .59 x 8.50l, 1.60 #File Name: 0323081983380 pages | File size: 38.Mb

Wayne R. Hedrick PhD : Technology for Diagnostic Sonography, 1e before purchasing it in order to gage whether or not it would be worth my time, and all praised Technology for Diagnostic Sonography, 1e:

2 of 2 people found the following review helpful. WORST BOOK EVER!By peachy48161I am in an ultrasound program and this is the first semester they are using this book and it looks like English in the textbook, but it reads like Japanese. It makes no clear sense and is very technical and very hard to understand.0 of 0 people found the following review helpful. For SchoolBy MelissaUtilized for school, helped me to get through my classes.0 of 0 people found the following review helpful. Four StarsBy Travis R.As good as a physics book can be lol.

Gain a complete understanding of sonography physics and instrumentation related to clinical practice. Technology for Diagnostic Sonography provides clear, in-depth coverage of physics principles, ultrasound transducers, pulse echo instrumentation, Doppler instrumentation, clinical safety, and quality control. It includes the latest information on real-

time imaging techniques, plus a comprehensive discussion of image artifacts. With wide-ranging online review questions, it also offers ample opportunities to assess your learning progress. Written by sonography and testing expert Wayne Hedrick, Technology for Diagnostic Sonography simplifies this difficult topic and allows you to demonstrate your knowledge of physics and instrumentation on exams with the ultimate goal of preparing you for success in clinical practice.A focus on essential physics and instrumentation provides the exact technical content you need to prepare for clinical sonography practice. Accessible, conversational writing style with real-world analogies explains physics concepts and makes this difficult topic less intimidating. Examples and sample problems help you make the connection between theory and practical applications. The latest information on equipment and scanning methods ensures an understanding of how to competently and safely use ultrasound instrumentation. Comprehensive discussion of image artifacts with illustrative examples helps you recognize and eliminate artifacts. Detailed description of performance testing with tissue mimicking phantoms allows assessment of the proper operation of B-mode scanners. Practical guidance on the clinical use of mechanical index and thermal index enables practice of the ALARA principle when scanning patients. Full-color format shows scans as they appear in the clinical setting. Key terms and other learner-friendly features focus your study on important information. Summaries of essential principles and equations reinforce the most important concepts. Extensive review questions on a companion Evolve website allow realistic assessment of your knowledge.

About the AuthorWayne R.Hedrick, PhD, is Professor of Medical Radiation Biophysics in the College of Medicine, Northeastern Ohio University, Rootstown, and a Certified Diagnostic Radiological and Medical Nuclear Physicist at Aultman Hospital, Canton.