

Diagnostic Ultrasound Principles And Instruments Seventh Edition

Without a thorough knowledge of the appearance of normal anatomy, you may have a tough time recognizing abnormalities in ultrasound images. Get a firm grounding in normal anatomy and physiology from an ultrasound perspective with Sonography: Introduction to Normal Structure and Function, 4th Edition. The new edition of this highly visual introductory text presents a wealth of ultrasound images, accompanied by labeled drawings with detailed legends, to increase your comfort with normal anatomy as it appears during scanning. Its consistent chapter format makes the content easy to navigate and reinforces the discipline of following a standard protocol to scan each area of the body. Detailed line drawings accompany most sonograms to explain what you should notice on each scan. If you do not see the structure, or are uncertain of it on the image, you can look at the diagram for confirmation. Over 1,500 images provide a thorough, visual understanding of sonography. Consistent organization with a standardized heading scheme helps you when searching for information. Content on quality control protocolin the clinical setting shows you how to recreate the most optimal scanning settings and techniques. Evolve resources provide you with additional learning tools. NEW! Full 4-color design incorporates color images within the appropriate chapter to help you understand the concepts without having to flip to the front of the book - and highlights the important points within each chapter. NEW! Three all-new chapters bring you the most up-to-date information on fetal echocardiography, laboratory values, and ergonomics. NEW! Updated sonograms demonstrate the latest and best images from the newest equipment, including 3D and 4D images. NEW! Expanded Test Bank, with new questions for each chapter, provides 1,000 questions on the material.

Secrets of the ARDMS Ultrasound Physics & Instrumentation Exam helps you ace the American Registry for Diagnostic Medical Sonography Exam, without weeks and months of endless studying. Our comprehensive Secrets of the ARDMS Ultrasound Physics & Instrumentation Exam study guide is written by our exam experts, who painstakingly researched every topic and concept that you need to know to ace your test. Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined. Secrets of the ARDMS Ultrasound Physics & Instrumentation Exam includes: The 5 Secret Keys to Secrets of the ARDMS Exam Success: Time is Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive General Strategy review including: Make Predictions, Answer the Question, Benchmark, Valid Information, Avoid Fact Traps, Milk the Question, The Trap of Familiarity, Eliminate Answers, Tough Questions, Brainstorm, Read Carefully, Face Value, Prefixes, Hedge Phrases, Switchback Words, New Information, Time Management, Contextual Clues, Don't Panic, Pace Yourself, Answer Selection, Check Your Work, Beware of Directly Quoted Answers, Slang, Extreme Statements, Answer Choice Families; A comprehensive Ultrasound Physics and Instrumentation Exam including: Sound, Mechanisms of Sound Generation, Sound Propagation/Interaction with Target, Single Line Reconstruction, Sound Detection/Image Formation, Applications and Techniques, Hardware Controls, Image Features, Resolution, Beamforming and the Point Spread Function, The Scattering and Reflection of Sound, Key Points, Ultrasound Physics or Abdomen Ultrasound, and much more... Disclaimer: The American Registry for Diagnostic Medical Sonography, Inc. (ARDMS) does not endorse this product nor is the ARDMS affiliated in any way with the owner or any content related to this website.

This is a comprehensive, large-format review text with complete answers for the American national examination of the Registry of Diagnostic Medical Sonographers (RDMS). It contains 600 questions divided evenly between sections on physics, the abdomen and small parts, and obstetrics and gynecology. The authors combine many years of experience teaching diagnostic ultrasound and provide illustrative scans and drawings for added comprehension.

The 8th edition of Kremkau's Sonography Principles and Instruments concisely and comprehensively covers the essential aspects of sonography physics and technology, presenting state-of-the-art content in a dynamic, highly visual format. Confidently prepare for the challenges of practice with a clear understanding of how diagnostic sonography works, including Doppler, artifacts, safety, quality assurance, the latest technology, and more. Essential coverage of physics and ultrasound helps you prepare for the ARDMS SPI exam. Straightforward explanations simplify complex content. Key Points highlight the most important information to help you study more efficiently. Learning features such as chapter outlines, learning objectives, bulleted chapter summaries, and a glossary of sonography physics terms make difficult concepts easier to review and understand. End-of-chapter exercises test your knowledge and understanding with a mix of true-or-false, fill-in-the-blank, multiple choice, and mathematical questions. A mathematics appendix provides fast, efficient access to a List of Symbols, a Compilation of Equations, and a Mathematics Review. A full-color design depicts more than 200 high-quality ultrasound scans similar to what you'll encounter in the clinical setting. Updated scans from the most current equipment and updated content on 3D imaging, contrast, elastography, and imaging artifacts provide all the information necessary to be consistent with current technology. Full-color photos of common instruments and control panels familiarize you with the devices you'll use in practice. Updated risk and safety statements help you ensure compliance with current national standards. New outline and presentation of materials reflect the 2009 ARDMS Sonography Principles and Instrumentation (SPI) examination.

Diagnostic Ultrasound
Sonography Scanning - E-Book
Sonography
Doppler Ultrasound
Diagnostic Radiology Physics

Applications in Tissue, Cellular and Molecular Diagnostics

This book clearly explains how to properly handle artifacts, scan safely, and evaluate instrument performance, while also helping students prepare for registry and board examinations in diagnostic ultrasound. Information is presented in a dynamic, visual format, with boxes, tables, and over 1,000 illustrations. This edition contains new and expanded material on contrast agents, harmonic imaging, coded excitation, panoramic imaging, spatial compounding, 3-D imaging, and electronic storage and communication of images external to the diagnostic instruments. Reorganized, rewritten material reflects the digital beam-forming, signal-processing, and image-processing functions of modern instruments.

All healthcare professionals practising ultrasound in a clinical setting should receive accredited training in the principles and practice of ultrasound scanning. This second edition of Diagnostic Ultrasound: Physics and Equipment provides a comprehensive introduction to the physics, technology and safety of ultrasound equipment, with high quality ultrasound images and diagrams throughout. It covers all aspects of the field at a level intended to meet the requirements of UK sonography courses. New to this edition: • Updated descriptions of ultrasound technology, quality assurance and safety. • Additional chapters dedicated to 3D ultrasound, contrast agents and elastography. • New glossary containing definitions of over 500 terms. The editors and contributing authors are all authorities in their areas, with contributions to the scientific and professional development of ultrasound at national and international level.

Written for health practitioners and students new to medical ultrasound, this book provides all the basic physics and technological knowledge they need in order to practise ultrasound effectively, including safety aspects of ultrasound, quality assurance and the latest techniques and developments. Multiple choice questions for self-assessment and as a revision aid Chapter on terminology with explanatory paragraphs of words and phrases used in diagnostic ultrasound Troubleshooting guide - common problems and their solutions explored A text designed for personal use by students requiring knowledge of the physics and instrumentation of medical diagnostic ultrasound as a complementary aid to the study of clinical diagnostic ultrasound.

How, Why and When

Sonographic Principles & Instrumentation (SPI)

Contrast Media in Ultrasonography

Ultrasound Review of the Abdomen, Male Pelvis & Small Parts

Ultrasound Physics Review

Basic Physics of Ultrasonographic Imaging

Enhance your imaging skills with the latest sonographic technologies and prepare for the ARDMS SPI certification exam! Sonography: Principles and Instruments, 10th Edition explains how diagnostic ultrasound works and covers the essentials of ultrasound physics and instrumentation, including Doppler imaging, artifacts, safety, and quality assurance. More than 1,300 illustrations include ultrasound scans, helping to demonstrate imaging anatomy, motion, and flow. In simplifying complicated concepts, Dr. Kremkau succeeds where other texts do not. With the right blend of imaging fundamentals, current techniques, and exam practice questions, this book is ideal for both students and experienced practitioners. Emphasis on the fundamentals of physics and sonography prepares you for the ARDMS SPI (Sonography Principles & Instrumentation) certification exam. Coverage of current technology includes the progress made with contrast agents and 3D, along with the more general aspects of transducers and instruments.

Straightforward explanations simplify complicated concepts. Over 120 ultrasound scans with a full-color design represent what you will encounter in the clinical setting. Learning objectives at the beginning of each chapter give you a measurable outcome to achieve. Key terms are listed at the beginning of each chapter and bolded in the text for fast and convenient lookup. Key Points are marked with an icon and special type, highlighting the most important information to help you study more efficiently. Bulleted review at the end of each chapter identifies key concepts. End-of-chapter exercises test your knowledge and understanding with a blend of multiple-choice, matching, and true/false questions. Glossary at the end of the book serves as a quick reference to key terms, letting you look up definitions without having to search through each chapter. Appendices offer convenient access to a list of symbols and equations, plus a mathematics review. Student resources on the Evolve companion website enhance learning with videos, a physics review, an image collection, and advanced concepts. NEW! Introduction of the new paradigm for understanding and applying sonographic principles explains how virtual beam-forming and high-speed postprocessing can be used to improve nearly every aspect of sonographic imaging. NEW! UPDATED content reflects questions on the latest American Registry for Diagnostic Medical Sonography (ARDMS) certification exam. NEW and EXPANDED coverage keeps you current with sonographic techniques including elastography, shear wave imaging, acoustic radiation force impulse imaging (ARFI), miniaturization and POCUS, and vector imaging in cardiac and vascular flow studies. NEW! The latest patient safety guidelines are included. Softcover format makes the book easier to carry around and facilitates note taking.

The coverage in this expanded and updated second edition will keep readers abreast of the most current trends and technologies in the field of abdominal ultrasound. Written by sonographers for sonographers, the reader is assured of accurate, efficient guidance. Beginning with a complete overview of the field, coverage includes all aspects of the medium. Pediatric and adult ultrasound are covered separately, providing a better understanding of differences and similarities. The text is organized according to organ system to ensure that the reader thoroughly understands one system before moving on to the next. More than 1,000 brilliant images illustrate both normal and abnormal features in abdominal ultrasound for use in clinical practice. The images are accompanied by summary tables, schematics, and diagrams, providing clear and cogent guidance for use in daily practice. New chapters in this edition provide the most up-to-date information on: / vascular structures / prostate / pediatric congenital hips / pediatric spinal sonography / musculoskeletal extremities and / articulations. Over 70 new color images enhance and clarify important content. Compatibility: BlackBerry® OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher /Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile™ Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

Expanded and updated edition highlighting current standards and breakthroughs in the technology of Doppler ultrasound Includes latest advances in 3D and color doppler and 4D fetal echocardiography Includes more than 500 illustrations, including more than 150 in color

An introductory text that explains how Doppler ultrasound works in simple step-by-step language. The book discusses the fundamental physical principles and instrumentation of Doppler ultrasound. Features include exercises, a multiple choice practical examination and a glossary of terms.

Principles and Instruments
A Review for the ARDMS SPI Exam
Diagnostic Ultrasound: Abdomen and Pelvis E-Book
Textbook of Diagnostic Sonography - E-Book
Principles and Use of Instruments
Sonography Principles and Instruments

Abdominal ultrasound is a bedside diagnostic tool that helps to discover many abdominal problems. It is a safe and painless procedure that has proven extremely useful for patient workup and diagnosis. This book illustrates the use of ultrasound for all the various organs of the abdomen. Each chapter covers a different organ and presents the latest knowledge and techniques of imaging. The content contained within is relevant across many specialties, including radiology and internal medicine, and is useful for physicians and medical residents and students alike.

An approachable textbook for medical practitioners and technologists studying to become ultrasound practitioners. Written by a leading ultrasound educator and designed to suit typical university, college or professional courses. Also appropriate for self-guided study. The first edition of this book sold over 5000 copies. This second edition brings the content up to date, while retaining the style and chapter structure of the first. Many sections have been rewritten, new material has been introduced and some outdated material removed. As before, a Study Guide has been developed to complement the text.

The present volume on basic physics of ultrasonographic imaging procedures provides clear and concise information on the physics behind ultrasound examinations in diagnostic imaging. It attempts to present the subject from a simple approach that should make it possible for the target groups to comprehend the important concepts which form the physical basis of ultrasonic imaging. The main target group of this manual is radiological technologists and radiographers working with diagnostic ultrasound in developing countries. Clinicians and nurse practitioners may also find the simple presentation appealing. A conscious effort has been made to avoid detailed mathematical treatment of the subject. The emphasis is on simplicity.

This is a current and comprehensive guide to Ultrasonography covering the whole body system but with special reference to obstetrics and gynecology. Doppler is featured as well as recent applications such as endoscopic and small image ultrasound.

Technology for Diagnostic Sonography - E-Book

Basic Principles and Clinical Applications

Workbook and Lab Manual for Sonography - E-Book

Physics and Equipment

Doppler Ultrasound in Obstetrics and Gynecology

Diagnostic Ultrasonics

Review important sonography learnings with Curry and Prince's Workbook for Sonography: Introduction to Normal Structure and Function, 5th Edition. This well-constructed review tool supports and completes the main text by providing an excellent introduction to sonography while preparing users to accurately identify sonographic pathology and abnormalities. Each workbook chapter opens with review questions on material from the corresponding chapter in the main text. Review questions are followed by drawings from the text — with parallel sonograms where appropriate — that include leader lines to label structures, but not the labels themselves. Workbook users will fill in the labels to identify structures in the drawings and sonograms, reinforcing visual and auditory learning from the text. Answers can be looked up in both the workbook appendix and by comparing the workbook figures to the labeled figures in the main text. Unlabeled line drawings and images from every chapter provide reinforcement of what you should be noticing on the scan. Direct correlation with each chapter from the main text enables immediate, thorough review of material. Review questions test your knowledge of the information learned in the text. NEW! Chapter on musculoskeletal sonography covers the latest use of ultrasound technology to visualize muscle, tendon, and ligament anatomy. NEW! Chapter devoted to pediatric sonography introduces you to the knowledge needed to work in this nascent specialty. NEW! Coverage of 5D technology familiarizes you with automated volume scanning. NEW! Updated content reflects the latest ARDMS standards and AIUM guidelines. NEW! Updated line drawings accompany new sonograms.

Biomedical Imaging Instrumentation: Applications in Tissue, Cellular and Molecular Diagnostics provides foundational information about imaging modalities, reconstruction and processing, and their applications. The book provides insights into the fundamental of the important techniques in the biomedical imaging field and also discusses the various applications in the area of human health. Each chapter summarizes the overview of the technique, the various applications, and the challenges and recent innovations occurring to further improve the technique. Chapters include Biomedical Techniques in Cellular and Molecular Diagnostics, The Role of CT Scan in Medical and Dental Imaging, Ultrasonography - Technology & Applications in Clinical Radiology, Magnetic Resonance Imaging, Instrumentation and Utilization of PET-CT Scan in Oncology, Gamma Camera and SPECT, Sentinel of Breast Cancer Screening; Hyperspectral Imaging; PA Imaging; NIR Spectroscopy, and The Advances in Optical Microscopy and its Applications in Biomedical Research. This book is ideal for supporting learning, and is a key resource for students and early career researchers in fields such as medical imaging and biomedical instrumentation. A basic, fundamental, easy to understand introduction to medical imaging techniques Each technique is accompanied with detailed discussion on the application in the biomedical field in an accessible and easy to understand way Provides insights into the limitations of each technology and innovations that are occurring related to that technology

"Authored by ultrasound specialists and reviewed by expert sonographers, this unique title is an image-rich, clinically relevant resource for both sonographers and beginning sonologists. Diagnostic Ultrasound for Sonographers meets the need for higher level diagnostic knowledge to not only identify an abnormality but understand its diagnostic implications, and anticipate what additional images would be needed to confirm a diagnosis. It includes tips on optimizing scans to streamline and accelerate the diagnostic process"--Publisher's description.

Master the sonography content and skills you need to prepare for, and succeed in, your specialized career! Introduction to Sonography and Patient Care, 2nd Edition, provides essential information and real-world applicable content, bridging the gap between didactic and clinical training. An easy-to-understand writing style and logically organized format take you step by step through each aspect of this dynamic, rewarding, and continually evolving imaging specialty.

Principles, Instruments, and Exercises

Introduction to Normal Structure and Function

Ultrasound Physics and Technology E-Book

Principles and Protocols

Ultrasound Physics and Instrumentation, 6e

Surgical and Interventional Ultrasound

Gain a complete understanding of sonographic 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.

Commonly referred to as the "sonography bible" by many of its past and current users, Betty Tempkin's Sonography Scanning, 4th Edition is the go-to guide for producing diagnostic sonograms for physicians. Featuring an updated two-color design, this new edition covers the latest ultrasound scanning principles along with step-by-step instructions for scanning and documenting images. The text also incorporates clinical skills, professionalism, image labeling, image techniques, case presentations, handling of ultrasound equipment, and the universal method for scanning and documenting pathologies. The scanning protocols follow AIUM guidelines and provide information on patient prep, transducers, breathing techniques, comprehensive surveys, and required images. Also included are the location of specific vessels or organs, anatomy and physiology, sonographic appearance, and normal variations. "Overall, this book is an excellent resource for novice sonography students, but also provides a useful reference book for the more experienced sonographer." Reviewed by: Dr Vivien Gibbs on behalf of RAD Magazine Date: July 2015 Scanning principles and step-by-step instructions on how to scan and document images help users establish standardization and image documentation for physician diagnostic interpretation. Scanning protocols that follow AIUM guidelines provides the essential information on patient prep, transducers, breathing techniques, comprehensive surveys, and required images. The location of specific vessels or organs, anatomy and physiology, sonographic appearance, and normal variations are also included. Sonographic ergonomics and proper use of equipment help sonographers avoid occupational injuries. Scanning protocol for pathology provides the criteria for evaluating and documenting abnormal sonographic findings, describing those findings within legal parameters, and relating those findings to the interpreting physician. Review questions at the end of each chapter give users the ability to self-review. NEW! Transducer location drawings included on images helps users understand exactly where on the body they should scan to produce a particular image. NEW! Musculoskeletal chapter provides musculoskeletal coverage for those sonographers interested in this specialty. NEW! Two-color streamlined design enhances readability and allows for more images on the page. NEW! 300 new images demonstrate superior quality images from the latest state-of-the-art ultrasound equipment. NEW! Pedagogy including key terms and objectives is included at the beginning of each chapter to specify chapter expectations and focus study.

This publication is aimed at students and teachers involved in programmes that train medical physicists for work in diagnostic radiology. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of modern diagnostic radiology. This makes it particularly useful for graduate students and residents in medical physics programmes. The material presented in the publication has been endorsed by the major international organisations and is the foundation for academic and clinical courses in both diagnostic radiology physics and in emerging areas such as imaging in radiotherapy.

The book provides the newest definitive text on the current techniques used in assessing vascular disorders. Readers will receive authoritative information and will be guided through the establishment and accreditation of a vascular laboratory and introduced to the physics of diagnostic testing. The chapters comprehensively explain the use of ultrasound in diagnosing cerebrovascular, renovascular, visceral ischemia and peripheral arterial disease, as well as venous disorders and deep abdominal vascular conditions. The book contains over 300 illustrations, many of them in color. The book will be invaluable to physicians who treat vascular disorders, surgeons, cardiologists, vascular radiologists and the vascular laboratory staff.

Diagnostic Ultrasound for Sonographers

A Handbook for Teachers and Students

Biomedical Imaging Instrumentation

A Sonographer's Exam Guide

Unofficial ARDMS Test Review for the American Registry for Diagnostic Medical Sonography Exam

Principles and Practice of Ultrasonography

Nowhere has the impact of ultrasonography been more dramatic than in reproductive medicine, particularly in the diagnosis of female and male infertility, the management of assisted reproductive procedures and the monitoring of early pregnancy. This authoritative textbook encompasses the complete role of ultrasonography in the evaluation of infertility and assisted reproduction. Covering every indication for ultrasonography in assisted reproductive technology, this will prove an invaluable resource in the evaluation of the infertile patient and optimization of the outcome of treatment.

The interpretation of images to improve fertility and reproductive success is emphasized throughout. Ultrasonography in Reproductive Medicine and Infertility is essential reading for clinicians working both in IVF clinics and in office practice. It will be particularly useful to gynecologists, infertility specialists, ultrasonographers and radiologists working in reproductive endocrinology and infertility, assisted reproductive technology, ultrasonography and radiology.

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Principles and Practice of Ultrasonography

The Physics and Technology of Diagnostic Ultrasound: A Practitioner's Guide (Second Edition)

Diagnostic Ultrasound: Principles & Instruments (Orig. Price: \$71.95)

A description of the basic principles of diagnostic ultrasonic instruments, the methods of using them and the problems which arise. Topics covered range from detection of motion by the Doppler effect, to the safety factor in diagnostic ultrasonics.

Here is the new SPI edition of the single best-selling mock exam devoted to the ARDMS exam in ultrasound physics. If you are looking for guidance and a clear understanding of the principles and facts you must know to pass the SPI exam, this is the review for you. With 600 registry-like questions, 83 image-based questions, and simple, clear explanations, the SPI edition of the best-selling Ultrasound Physics Review illuminates this difficult subject from the point of view of the sonographer and points the way to success. An Image Gallery prepares you to tackle the scans on the exam. Precisely based on the ARDMS exam outline.

Based on the RDMS question weightings published by the ARDMS, this text covers normal anatomy and development, pathology, lab values, differential diagnosis, and gamuts. Descriptions of normal anatomy and development and pathology are accompanied by high-quality ultrasound images and line drawings. Easy-to-use chart format is useful for quick clinical reference, as well as studying for the RDMS registry exam.

Diagnostic UltrasoundPrinciples and InstrumentsSaunders

Ultrasonography in Reproductive Medicine and Infertility

Review Questions for Ultrasound

Essentials of Abdominal Ultrasound

Updated to reflect the newest curriculum standards, Textbook of Diagnostic Sonography, 8th Edition provides you with the pertinent information needed for passing the boards. This highly respected text enhances your understanding of general/abdominal and obstetric/gynecologic sonography, the two primary divisions of sonography, as well as vascular sonography and echocardiography. Each chapter covers patient history; normal anatomy, including cross-sectional anatomy; sonography techniques; pathology; and related laboratory findings. And more than 3,100 images and anatomy drawings guide you in recognizing normal anatomy and abnormal pathology. Full-color presentation, including color scans of gross pathology photos, where appropriate, enhances your learning experience and the teaching value of the text. Pathology tables give you quick access to clinical findings, laboratory findings, sonography findings, and differential considerations. Pedagogy, including chapter objectives and outlines, alerts you to the important information you will learn in each chapter. Evolve site includes PowerPoint slides, an image bank, review questions and a workbook answer key for students, and a test bank for faculty to aid in the reinforcement and teaching of sonography skills. Sonography Findings, highlighted with icon and special type, call attention to key clinical information. NEW! Full coverage of general/abdominal, transplantation, superficial structures, pediatrics, fetal heart, and obstetric/gynecologic sonography, along with several new chapters on vascular sonography, hemodynamics, and introduction to echocardiography, provides you with the information needed to pass the boards and succeed in clinicals. UPDATED! Content reflects the newest curriculum standards so you have the information you need to pass the boards. NEW! Updated images depict the latest advances in the field of sonography and help you prepare for the boards and clinicals. NEW! Key words in chapter openers focus your attention on the terms that you are required to know and understand. NEW! Bulleted summary lists at the end of each chapter reinforce important concepts. NEW! A condensed bibliography at the end of the book lists essential references and guides you in the direction to obtain more information in a given area.