

Table of Contents:

Section I: Clinical Applications

1. Before and After the Ultrasound Examination
2. Ultrasound Instrumentation: "Knobology," Imaging Processing, and Storage

3. General Patient Care

4. NEW! Introduction to Ergonomics and Sonographer Safety

Section II: Sonographic Approach to Understanding Anatomy

5. Interdependent Body Systems

6. Anatomy Layering and Sectional Anatomy

7. First Scanning Experience

8. Embryology

9. NEW! Introduction to Laboratory Values

Section III: Abdominal Sonography

10. The Abdominal Aorta

11. The Inferior Vena Cava

12. The Portal Venous System

13. Abdominal Vasculature

14. The Liver

15. The Biliary System

16. The Pancreas

17. The Urinary System

18. The Spleen

19. The Gastrointestinal System

Section IV: Pelvic Sonography

20. The Male Pelvis

21. The Female Pelvis

Section V: Obstetric Sonography

22. First Trimester Obstetrics

23. Second and Third Trimester Obstetrics

24. High-Risk Obstetrical Sonography

25. NEW! Fetal Echocardiography

Section VI: Introduction to Specialty Sonography

26. The Neonatal Brain

Section VII: Small Parts Sonography

27. Thyroid and Parathyroid Glands

28. Breast Sonography

29. Penis and Scrotum

Section VIII: Superficial Sonography

30. Pediatric Echocardiography

31. Adult Echocardiography

32. Vascular Technology

Section IX: Advances in Sonography

33. 3D/4D Sonography

34. Interventional and Intraoperative Sonography