

All chapters will have updated images

I. PHYSICS

1. Physics of Ultrasound (*Heavily revised)
2. Biologic Effects and Safety (*Heavily revised)
3. Ultrasound Contrast Agents and Setting Up Your Contrast Practice (includes new section on setting up a contrast lab for clinical practice)

II. ABDOMINAL, PELVIC, AND THORACIC SONOGRAPHY

4. The Liver
5. The Spleen
6. The Biliary Tree and Gallbladder
7. The Pancreas
8. The Gastrointestinal Tract
9. The Kidney and Urinary Tract
10. The Prostate
11. The Adrenal Glands
12. The Retroperitoneum (will include a section on endoleaks with US contrast)
13. Dynamic Ultrasound of Hernias of the Groin and Anterior Abdominal Wall
14. The Peritoneum
15. The Uterus
16. The Adnexa
17. Ultrasound-Guided Biopsy of Chest Abdomen and Pelvis
18. Organ Transplantation

III. SMALL PARTS, CAROTID ARTERY, AND PERIPHERAL VESSEL SONOGRAPHY

19. The Thyroid Gland

20. Other glands in the neck (which was just parathyroid now includes other glands in the neck (parotid, salivary and submandibular glands))

21. The Breast

22. The Scrotum

23. Overview of Musculoskeletal Ultrasound Techniques and Applications

24. The Shoulder

25. Musculoskeletal Interventions

26. The Extracranial Cerebral Vessels

27. The Peripheral Arteries (*Heavily revised)

28. The peripheral veins

29. Hemodialysis (new Chapter)

IV. OBSTETRIC AND FETAL SONOGRAPHY

30. Overview of Obstetric Imaging

31. The First Trimester

32. Chromosomal Abnormalities

33. Multifetal Pregnancy

34. The Fetal Face and Neck

35. The Fetal Brain

36. The Fetal Spine

37. The Fetal Chest

38. The Fetal Heart

39. The Fetal Abdominal Wall and Gastrointestinal Tract

40. The Fetal Urogenital Tract

41. The Fetal Musculoskeletal System

42. Fetal Hydrops

43. Fetal Measurements: Normal and Abnormal Fetal Growth and Assessment of Fetal Well-Being

44. Sonographic Evaluation of the Placenta

45. Cervical Ultrasound and Preterm Birth

V. PEDIATRIC SONOGRAPHY

46. Neonatal and Infant Brain Imaging

47. Doppler Sonography of the Neonatal and Pediatric Brain

48. The Pediatric Head and Neck

50. The Pediatric Spinal Canal

51 The Pediatric Chest

52. The Pediatric Liver and Spleen

53. The Pediatric Kidney and Adrenal Glands

54.The Pediatric Gastrointestinal Tract

55. Pediatric Pelvic Sonography

56.The Pediatric Hip and Musculoskeletal Ultrasound

57. Pediatric Interventional Sonograph