

## Features:

- Provides a wide range of **anatomic detail, technical factors, and diagnostic criteria** to guide accurate application of ultrasound throughout the body
- Covers **new and evolving techniques** such as the increasing use of microbubble imaging to enhance image resolution, distinguish vessels more clearly, and minimize noise and background signals
- Details the **latest information across several ACR RADS criteria**, and contains extensive new material from the LI-RADS, GB-RADS, and transplant criteria, which now include Doppler ultrasound with its noninvasive methodology rated highly for appropriate use
- Reflects an **increased use of Doppler extremity evaluations** due to ongoing COVID-19 diagnoses and a higher incidence of venous thrombosis
- Contains **updated ACR Appropriateness Criteria** regarding the new “highly appropriate” ratings, as well as new Intersocietal Accreditation Commission (IAC) recommendations in numerous diagnosis chapters
- Contains a gallery of **typical and atypical ultrasound appearances** covering a wide spectrum of disease, correlated with CT and MR imaging where appropriate, and detailed artistic renderings
- Features **image-rich chapters on vascular ultrasound techniques**, covering grayscale, color, power, and spectral (pulsed) Doppler imaging, as well as imaging artifacts
- Contains **time-saving reference features** such as succinct and bulleted text, a variety of test data tables, a Key Facts section that begins in each chapter, annotated images, and an extensive index
- An ideal reference for radiologists, sonographers, vascular surgeons, and those who are training in these fields
- **Includes an eBook version** that enables you to access all text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud

## Περιεχόμενα:

### Part I: Technique

#### Section 1: Modalities

Color Doppler

Power Doppler

Spectral Doppler: General Waveform Concepts

Contrast-Enhanced Ultrasound: Basic Technique in Liver and Kidney

Volumetric Blood Flow  
Microvascular Imaging

## **Section 2: Artifacts**

Aliasing, Blooming, and Twinkling Artifact

## **Part II: Anatomy**

### **Section 1: Head and Neck**

Neck Overview  
Cervical Carotid Arteries  
Vertebral Arteries  
Neck Veins

### **Section 2: Chest and Abdomen**

Thoracic Outlet  
Ribs and Intercostal Space  
Liver  
Spleen  
Pancreas  
Kidneys  
Aorta and Inferior Vena Cava  
Mesenteric Vessels  
Iliac Arteries and Veins  
Penile  
Scrotum  
Gynecologic Structures

### **Section 3: Extremities**

#### **Upper Limb**

Arm Overview  
Arm Vessels  
Forearm Overview  
Wrist Overview  
Hand Overview  
Wrist and Hand Vessels

#### **Lower Limb**

Groin Overview  
Femoral Vessels and Nerves  
Lower Leg Overview

Lower Leg Vessels  
Foot Vessels

### **Part III: Diagnoses**

#### **Section 1: Head and Neck**

Parotid Vascular Lesion  
Venous Vascular Malformation  
Jugular Vein Thrombosis  
Carotid Artery Dissection in Neck  
Carotid Stenosis/Occlusion  
Carotid-Jugular Fistula  
Vertebral Stenosis/Occlusion  
Atypical Carotid Waveforms  
Arteritis/Takayasu  
IABP and Other Devices

#### **Section 2: Chest and Abdomen**

##### **Aorta and Vena Cava**

Aortic/Iliac Aneurysm  
Aortoiliac Occlusive Disease  
IVC Obstruction  
Aortic Dissection  
Aortic Stent Endoleak  
Celiac Artery Stenosis  
SMA Stenosis  
Median Arcuate Ligament Syndrome

##### **Liver**

Portal Hypertension  
Approach to Hepatic Sonography  
Portosystemic Collaterals  
Transjugular Intrahepatic Portosystemic Shunt (TIPS)  
Portal Vein Occlusion  
Budd-Chiari Syndrome  
Portal Vein Gas  
Hepatic Tumor Thrombus/Tumor-in-Vein

##### **Spleen**

Splenic Vascular Disorders  
Splenic Artery Aneurysm  
Splenic Vein Thrombosis

## **Kidney**

Renal Artery Stenosis  
Renal Vein Thrombosis  
Renal Infarct  
Perinephric Hematoma  
Tumor Vascularity  
Renal AVF/AVM  
Renal Vein Nutcracker  
High Resistive Index

## **Reproductive**

Varicocele  
Testicular Torsion/Infarct  
Penile  
Ovarian Torsion  
Uterine AVM/PSA  
Uterine Fibroid Embolization  
Pelvic Congestion

## **Section 3: Transplants**

### **Kidney**

Approach to Sonography of Renal Allografts  
Transplant Renal Artery Stenosis  
Transplant Renal Artery Thrombosis  
Transplant Renal Vein Thrombosis  
Renal Transplant Arteriovenous Fistula  
Renal Transplant Pseudoaneurysm  
Renal Transplant Rejection  
Delayed Renal Graft Function

### **Liver**

Liver Transplant Hepatic Artery Stenosis/Thrombosis  
Liver Transplant Portal Vein Stenosis/Thrombosis  
Liver Transplant Hepatic Venous Stenosis/Thrombosis  
Liver Transplant Biliary Stricture  
Hepatic Artery Aneurysm/Pseudoaneurysm

### **Pancreas**

Pancreas Transplant: Normal vs. Rejection

#### **Section 4: Extremities**

##### **Arteries**

Peripheral Arterial Occlusive Disease

Peripheral Arterial Pseudoaneurysm

Peripheral Arteriovenous Fistula

Peripheral Artery Bypass

Wrist Modified Allen Test

Hemodialysis Stenosis/Occlusion

Hemodialysis Failure to Mature

Hemodialysis Steal

##### **Veins**

Deep Vein Thrombosis

Varicose Veins/Incompetent Perforator

Iliac and IVC Venous Occlusion

Soft Tissues

Limb Hemangioma

Vascular Dilatation or Inflammation

Vascular Anomaly

Vascular Tumor/Leiomyosarcoma

#### **Section 5: Interventions**

Thrombin PSA Repair

Aneurysm Coiling