

Chapter 1. Classification of Arrhythmias

Chapter 2. Electrophysiologic Mechanisms of Arrhythmogenesis

- Normal excitation of the heart
- Mechanisms of arrhythmias
- Chapter 3. Cardiac Anatomy for the Electrophysiologist
- Left Atrium
- Right Atrium
- Right and Left Ventricle
- Cardiac Valves
- The Conduction System

Chapter 4. Vascular Access and Catheters

- Patient Preparation
- Epicardial access
- Catheter Placement
- Exposure to Radiation During EP Procedures

Chapter 5. Electrophysiology Hardware

- Electrode catheters
- Sheaths
- Electrogram Recording and Processing
- Pacing

Chapter 6. Basic Intervals and Atrial and Ventricular Conduction Curves

- Basic Intervals
- AV Conduction Curves
- VA conduction Curves

Chapter 7. Electroanatomic Mapping and Robotic Navigation

- Electroanatomic Mapping Systems
- Robotic Navigation

Chapter 8. Physics of Ablation

- Radiofrequency ablation
- Cryoablation
- LASER Ablation
- Pulsed Field Ablation
- Stereotactic Cardiac Radioablation

Chapter 9. Investigation of Bradycardias

- Sinus Bradycardia

- Atrioventricular Block
- Atrioventricular Dissociation
- Intraventricular Block
- Electrophysiologic Testing for the Investigation of Bradycardias

Chapter 10. Differential Diagnosis of Narrow-QRS Tachycardias

- Regular Narrow-QRS (≈ 120 ms) Tachycardias
- Irregular Narrow-QRS (≈ 120 ms) Tachycardias

Chapter 11. Differential Diagnosis of Wide-QRS Tachycardias

- Regular Wide-QRS (>120 ms) Tachycardias
- Irregular Wide-QRS (>120 ms) Tachycardias

Chapter 12. Diagnosis and Catheter Ablation of Atrial Tachycardias

- Atrial Premature Beats
- Sinus Tachycardias
- Focal Atrial Tachycardia
- Multifocal Atrial Tachycardia
- Macro-reentrant Atrial Tachycardias

Chapter 13. Diagnosis and Catheter Ablation of Atrial Fibrillation

- Definitions and Classification
- Electrophysiologic Mechanisms
- Diagnosis
- Catheter Ablation

Chapter 14. Diagnosis and Catheter Ablation of Atrioventricular Junctional Tachycardias

- Atrioventricular Nodal Reentrant Tachycardia
- Non-reentrant Junctional Tachycardias
- Junctional Ectopic Beats

Chapter 15. Diagnosis and Catheter Ablation of Wolff-Parkinson-White Syndrome and Atrioventricular Tachycardias

- Definitions
- Electrophysiology and classification of accessory pathways
- Diagnosis
- Risk stratification in patients with asymptomatic preexcitation
- Catheter ablation

Chapter 16. Diagnosis and Catheter Ablation of Ventricular Tachycardias

- Definitions
- Electrophysiologic Mechanisms

- Diagnosis
- Electrophysiology Testing
- Catheter ablation
- Clinical Forms of Ventricular Arrhythmias