### CONTENTS

## PART 1 Basic Tools in Routine Evaluation of Cardiac Patients

- 1 History Taking, 1
- 2 Physical Examination, 6
- 3 Electrocardiography, 31
- 4 Chest Radiography, 50

## PART 2 Special Tools in Evaluation of Cardiac Patients

- 5 Noninvasive Imaging Tools, 57
- 6 Other Noninvasive Investigation Tools, 74
- 7 Invasive Procedures, 83

### PART 3 Pathophysiology

- 8 Fetal and Perinatal Circulation, 91
- 9 Pathophysiology of Left-to-Right Shunt Lesions, 96
- 10 Pathophysiology of Obstructive and Valvular Regurgitant Lesions, 102
- 11 Pathophysiology of Cyanotic Congenital Heart Defects, 107

#### PART 4 Specific Congenital Heart Defects

- 12 Left-to-Right Shunt Lesions, 119
- 13 Obstructive Lesions, 143
- 14 Cyanotic Congenital Heart Defects, 160
- 15 Miscellaneous Congenital Cardiac Conditions, 224
- 16 Vascular Ring, 237
- 17 Chamber Localization and Cardiac Malposition, 243

#### PART 5 Acquired Heart Disease

- 18 Primary Myocardial Disease, 247
- 19 Cardiovascular Infections, 264
- 20 Acute Rheumatic Fever, 282

- 21 Valvular Heart Disease, 288
- 22 Cardiac Tumors, 297
- 23 Cardiovascular Involvement in Systemic Diseases, 301

# PART 6 Arrhythmias and Atrioventricular Conduction Disturbances

- 24 Cardiac Arrhythmias, 311
- 25 Disturbances of Atrioventricular Conduction, 335
- 26 Cardiac Pacemakers and Implantable Cardioverter-Defibrillators in Children, 338

#### PART 7 Special Problems

- 27 Congestive Heart Failure, 345
- 28 Systemic Hypertension, 357
- 29 Pulmonary Hypertension, 370
- 30 The Child with Chest Pain, 378
- 31 Syncope, 386
- 32 Palpitation, 394
- 33 Dyslipidemia and Other Cardiovascular Risk Factors, 397
- 34 Pediatric Preventive Cardiology, 410
- 35 Athletes with Cardiac Problems, 424
- 36 Cardiac Transplantation, 437

#### **APPENDICES**

- A Miscellaneous, 444
- B Blood Pressure Values, 450
- C Cardiovascular Risk Factors, 461
- D Normal Echocardiographic Values, 467
- E Drugs Used in Pediatric Cardiology, 477

Suggested Readings, 493 Index, 507