Preface

List of Contributors

Introduction

- 1. History of Exercise Testing
- 2. Physiology of Cardiac Ischemia

Practical Considerations in Stress Testing

- 3. When to Use Exercise Testing Indications, Guidelines and Appropriate Use Criteria
- 4. Contraindications, Risks, and Safety Precautions for Stress Testing
- 5. Parameters to be Measured During Exercise
- 6. Blood Pressure Measurement During Exercise
- 7. Stress Testing Protocols
- 8. The Ellestad Protocol
- 9. Interpretation of the ECG During Stress Testing
- 10. Rhythm and Conduction Disturbances in Stress Testing
- 11. Predicting Prognosis with the Exercise Test: Putting It All Together
- 12. Non-physician Supervision of Stress Testing
- 13. Optimizing Stress Testing in a Limited Financial Resource Environment

Role of Cardiac Imaging in Stress Testing

- 14. Making Clinical Decisions Based on Exercise Testing
- 15. Nuclear Cardiology
- 16. Stress Echocardiography
- 17. Stress Cardiac Magnetic Resonance Imaging
- 18. Stress X-Ray Computed Tomography
- 19. Combining Calcium Scanning and Treadmill Exercise: The "Treadmill Calcium Test"

Physiologic and Metabolic Considerations

- 20. Cardiovascular and Pulmonary Responses to Exercise
- 21. Cardiopulmonary Exercise Testing
- 22. Heart Rate Response to Exercise
- 23. Metabolic Abnormalities and Drugs

Stress Testing in Specific Populations

- 24. Stress Testing in Women
- 25. Stress Testing of Athletes and Those in High Risk Occupations

26. Sports Medicine and Cardiac Rehabilitation for Coronary and Peripheral Artery

Disease

27. Stress Testing in Children

The Future of Stress Testing

- 28. The Impact of Changing Global Atherosclerosis Patterns on Stress Testing
- 29. Perspectives on the Future of Stress Testing

Appendix