

Χαρακτηριστικά:

- **Comprehensive coverage** details the structure and function of the cardiopulmonary system
- **Case studies** provide examples of the respiratory therapist's role in successful patient care
- **End-of-chapter review questions** align with chapter learning objectives to ensure you understand important information
- **NEW clinical anatomy illustrations and a new design** throughout the text help enhance comprehension and visually clarify complex topics
- **UPDATED *Clinical Connections*** link chapter content to real-life situations in respiratory therapy

Περιεχόμενα:

PART I: The Cardiopulmonary System—The Essentials

1. The Anatomy and Physiology of the Respiratory System
2. Mechanics of Ventilation
3. Pulmonary Function Measurements
4. The Diffusion of Pulmonary Gases
5. The Anatomy and Physiology of the Circulatory System
6. Oxygen and Carbon Dioxide Transport
7. Acid–Base Balance and Regulation
8. Ventilation-Perfusion Relationships
9. Control of Ventilation
10. Fetal Development and the Cardiopulmonary System
11. Aging and the Cardiopulmonary System

PART II: Advanced Cardiopulmonary Concepts and Related Areas—The Essentials

12. Electrophysiology of the Heart
13. The Standard 12-Electrocardiogram Lead System
14. Electrocardiogram Interpretation
15. Hemodynamic Measurements
16. Renal Failure and Its Effects on the Cardiopulmonary System
17. Sleep Physiology and Its Relationship to the Cardiopulmonary System

PART III: The Cardiopulmonary System During Unusual Environmental Conditions

18. Exercise and Its Effects on the Cardiopulmonary System
19. High Altitude and Its Effects on the Cardiopulmonary System
20. High-Pressure Environments and Their Effects on the Cardiopulmonary System

APPENDICES

- Appendix A Symbols and Abbreviations
- Appendix B Units of Measurement

Appendix C Poiseuille's Law

Appendix D DuBois Body Surface Chart

Appendix E Cardiopulmonary Profile

Appendix F $\text{PCO}_2/\text{HCO}_3^-/\text{pH}$ Nomogram

Appendix G Calculating Heart Rate by Counting the Number of Large ECG Squares

Appendix H Answers to Review Questions in Text