

### Features:

- **UNIQUE! Apply Your Knowledge questions** ask you to use what you've learned to predict *What can go wrong with this structure or system?*, transitioning you from the body's normal anatomy and physiology into its pathophysiology.
- **UNIQUE! Think About questions** relate to the text's facts, potential applications, or the integration of concepts, alerting you to important points and helping with self-evaluation, test preparation, and review.
- **Case studies** provide realistic, clinical applications of the book's concepts.
- **Format for discussions of individual disorders** follows a "building block" approach, making understanding easier with 1) background, 2) pathophysiology, 3) etiology, 4) signs and symptoms, 5) diagnostic tests, 6) complications, and 7) treatment.
- **Concise and readable approach** presents the content in a way that doesn't overwhelm the reader and yet familiarizes you with necessary scientific and medical terminology.
- **Hundreds of illustrations** clarify and reinforce pathophysiology concepts with photographs, flow charts, and schematic diagrams.

### New To This Edition:

- **NEW! The Bigger Picture bulleted summaries** identify other body systems that might be affected by a particular disease or disorder covered in a body system chapter.
- **NEW coverage of COVID-19** is added, as well as new information on other conditions and diseases.
- **NEW diagnostic methods and treatments** are covered, describing how these are impacted by digitalization, information technology, and artificial intelligence.
- **NEW! Updated statistics on diseases and their related pathophysiology** are included.
- **NEW photographs and illustrations** are added.

### Περιεχόμενα:

#### Section I: Pathophysiology: Background and Overview

1. Introduction to Pathophysiology
2. Fluid, Electrolyte, and Acid-Base Imbalances
3. Introduction to Basic Pharmacology and Other Common Therapies
4. Pain

#### Section II: Defense/Protective

5. Inflammation and Healing
6. Infection
7. Immunity

#### Section III: Pathophysiology of Body Systems

8. Skin Disorders
9. Musculoskeletal Disorders
10. Blood and the Circulatory System
11. Lymphatic System Disorders
12. Cardiovascular System Disorders
13. Respiratory System Disorders
14. Neurological Disorders
15. Eyes, Ears and Other Sensory Organs
16. Endocrine Disorders
17. Digestive System Disorders
18. Urinary System Disorders

- 19. Reproductive System Disorders
- 20. Neoplasms and Cancer

#### **Section IV: Factors Contributing to Pathophysiology**

- 21. Congenital and Genetic Disorders
- 22. Complications Due to Pregnancy
- 23. Complications Due to Adolescence
- 24. Complications Due to Aging

#### **Section V: Environmental Factors and Pathophysiology**

- 25. Immobility and Associated Problems
- 26. Stress and Associated Problems
- 27. Substance Abuse and Associated Problems
- 28. Environmental Hazards and Associated Problems

#### **Appendixes: Ready References**

- Ready Reference 1: Body Planes, Cavities, Regions, Fluid Compartments, and Body Movements
- Ready Reference 2: Anatomic Terms
- Ready Reference 3: Conversion Tables
- Ready Reference 4: Common Abbreviations and Acronyms
- Ready Reference 5: Common Diagnostic Studies and Tests
- Ready Reference 6: Example of a Medical History
- Ready Reference 7: Disease Index
- Ready Reference 8: Drug Index
- Ready Reference 9: Additional Resources