

Features:

- **UNIQUE! Why You Need to Know and Life Application boxes** make the content more relevant by putting material in a real-world context, helping you understand how concepts apply to everyday situations.
- **UNIQUE! Medical Highlights boxes** in each chapter provide anecdotal information about a pathological condition mentioned in the chapter, with illustrations and updates on new trends and information specific to the healthcare industry.
- **UNIQUE! Health Care Application tables** in each chapter provide quick access to focused information on pathogens as they relate to the subject matter of the chapter, including symptoms, causes, and treatments for a given condition/pathogen when applicable.
- **Timesaving focus on just the necessary information** provides the ideal level of introductory microbiology coverage.
- **Chapter outlines and key terms** for every chapter enable more efficient learning.
- **Learning objectives** clarify chapter goals and guide you through the content.
- **Twenty review questions at the end of each chapter** test your retention and help you identify areas requiring further study.

New To This Edition:

- **NEW! The Bigger Picture section** in each body system chapter identifies other body systems that might be affected by a particular microbial infection.
- **NEW! Technology Boxes** highlight new technology, such as artificial intelligence, that is becoming more essential to diagnosis and treatment in the healthcare field.

Περιεχόμενα:

Section 1: Basic Science

1. Scope of Microbiology
2. Chemistry of Life
3. Cell Structure and Function
4. Bacteria and Archaea
5. Viruses
6. Eukaryotic Microorganisms

Section 2: Tools for Study and Control of Microorganisms

7. Physical and Chemical Methods of Control
8. Microbiological Laboratory Techniques
9. Microbiological Laboratory Safety Issues
10. Pharmacology
11. Antimicrobial Drugs

Section 3: Infection, Disease and Defense

12. Infection and Disease
13. The Immune Response and Lymphatic System

Section 4: Effects on Specific Body Systems

14. Infections of the Integumentary System, Soft Tissue and Musculoskeletal System
15. Infections of the Respiratory System
16. Infections of the Gastrointestinal System

17. Infections of the Nervous System and Sensory Structures
18. Infections of the Cardiovascular and Circulatory Systems
19. Infections of the Urinary System
20. Infections of the Reproductive System

Section 5: Factors Contributing to the Effects of Microorganisms on Human Health

21. Sexually Transmitted Infections/Diseases
22. Human Age and Infections
23. Microorganisms in the Environment and Effects on Human Health
24. Emerging Infectious Diseases
25. Biotechnology

Appendix A: Bergey's Manual of Systematic Bacteriology

Appendix B: Medically Significant Microorganisms by Body Systems

Appendix C: Bibliography

Glossary