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Autore	Bhattacharjee Mrinal K.
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Nota di contenuto	Chapter 1: Introduction -- Chapter 2: Development of resistance to antibiotics -- Chapter 3: Antibiotics that inhibit cell wall synthesis -- Chapter 4: Antimetabolites: Antibiotics that inhibit nucleotide synthesis -- Chapter 5: Antibiotics that inhibit nucleic acid synthesis -- Chapter 6: Antibiotics that inhibit protein synthesis -- Chapter 7: Antibiotics that affect the membrane and other structural targets -- Chapter 8: Antifungals, Antimalarials and Antivirals -- Chapter 9: Alternative Approaches for Antibiotic Discovery -- Chapter 10: Global Action Plan and Antibiotic Stewardship.
Sommario/riassunto	This textbook builds on the success of the earlier edition, offering alternative strategies for discovering new antibiotics. It discusses how the various types of antibiotics and related drugs work to cure infections. Then it delves into the very serious matter of how bacteria are becoming resistant to these antibiotics. It also covers the global action plan on antimicrobial resistance from the World Health Organization and discusses several Antibiotic Stewardship Programs adopted by agencies at local levels. Appropriate for a one-semester course at either the graduate or advanced undergraduate level, the book is self-contained and written in accessible language. It includes all necessary background biochemistry material and a discussion of the latest developments in the field of antibiotics. Original research works are frequently cited and experimental procedures and interpretation of results are emphasized.