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Nota di contenuto	Chapter 1. Anti-Microbial Technologies on Critical Care Implants -- Chapter 2 Antimicrobial and Anti-biofilm Medical Devices - Public Health and Regulatory Science Challenges -- Chapter 3 Characterization of bacterial adhesion and biofilm formation -- Chapter 4 Molecular approaches for studying biofilms: techniques, challenges and future prospects -- Chapter 5 Implantable medical devices modified with antimicrobial substances -- Chapter 6 Anti-antimicrobial approaches to device-based infections -- Chapter 7 Releasing antimicrobial agents from porous materials -- Chapter 8 Anti-fouling medical coatings -- Chapter 9 Exploring the potential of light to prevent and treat microbial biofilms in medical and food applications -- Chapter 10 Light-triggered anti-infective surface.
Sommario/riassunto	Based on a fundamental understanding of the interaction between bacteria and materials, this timely volume emphasizes the latest research in the antimicrobial interfacial design and provides an

invaluable blueprint for improving antimicrobial performance on devices and products. Antimicrobial Coatings and Modifications targets reduction of microbial accumulation on biomedical and industrial materials through changing interfacial characteristics. Applying a viable antimicrobial coating or modification to resist alarming threats is a highly demanding requirement for many medical and engineering applications. Many contemporary books in the area of antimicrobial solution focus on applying antimicrobial agents or materials that can kill bacteria. The volume pays more attention to eliminating bacterial contamination and biofilm formation through surface characteristics and novel technologies with minimized bacterial resistance and environmental impact.