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Chapter 3 - Clean Room Wipers for Removal of Surface Contamination; 1. PRINCIPLES OF WIPING FOR REMOVAL OF CONTAMINANTS; 2. TYPES OF WIPERS; 3. WIPER TESTING 4. METHODS TO ASSESS WIPER QUALITY 5. THE IMPORTANCE OF AUTOMATION; 6. APPLICATIONS; 7. CURRENT TRENDS IN WIPER TECHNOLOGY; 8. FUTURE DEVELOPMENTS IN CLEAN ROOM WIPERS; REFERENCES; Chapter 4 - Impact of Microbial Surface Contamination and Effective Environment Monitoring System in Pharmaceutical Manufacturing; 1. INTRODUCTION; 2. IMPACT OF MICROORGANISMS IN THE ENVIRONMENT; 3. SANITIZATION; 4. ENVIRONMENTAL MONITORING; 5. ENVIRONMENTAL CONTAMINATION CONTROL; 6. FUTURE DEVELOPMENTAL REQUIREMENTS; REFERENCES Chapter 5 - Neutron Holography as a Technique for Probing Local Atomic Structures on the Nanoscale 1. INTRODUCTION; 2. BASIC CONCEPTS; 3. EXPERIMENTAL REQUIREMENTS; 4. EXAMPLES; 5. OUTLOOK; REFERENCES; Index

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### Sommario/riassunto

In this series, Rajiv Kohli and Kash Mittal have brought together the work of experts from different industry sectors and backgrounds to provide a state-of-the-art survey and best-practice guidance for scientists and engineers engaged in surface cleaning or dealing with the consequences of surface contamination. This volume complements Volumes 3 and 4 of this series, which focused largely on particulate contaminants. The expert contributions in this volume cover methods for removal of non-particulate contaminants, such as metallic and non-metallic thin films, hydrocarbons, toxic and

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