1. Record Nr. UNINA9911004777503321

Titolo	Developments in surface contamination and cleaning [[electronic resource]] : fundamentals and applied aspects . Volume 2 Particle deposition, control and removal / / edited by Rajiv Kohli and Kashmiri L. Mittal
Pubbl/distr/stampa	Amsterdam, : Elsevier, c2010
ISBN	1-282-73820-8 9786612738203 1-4377-7831-3
Descrizione fisica	1 online resource (311 p.)
Altri autori (Persone)	KohliRajiv <1947-> MittalK. L. <1945->
Disciplina	620.44
Soggetti	Cleaning Coatings Dust control Particles - Measurement Surface contamination - Prevention Surfaces (Technology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Developments in Surface Contaminationand Cleaning; Copyright; Contents; Preface; About the Editors; Contributors; Chapter 1Particle Deposition onto Enclosure Surfaces; 1. INTRODUCTION; 2. BACKGROUND; 3. MECHANISMS OF PARTICLE TRANSPORT; 4. PARAMETERS FOR PARTICLE DEPOSITIONCHARACTERIZATION; 5. METHODS FOR MEASUREMENT OF PARTICLE DEPOSITION; 6. REVIEW OF EXPERIMENTAL STUDIES; 7. MODELING PARTICLE DEPOSITION AND THEEXPERIMENTAL VALIDATIONS; 8. SUMMARY; ACKNOWLEDGEMENTS; REFERENCES; Chapter 2Contamination Control: A Systems Approach; 1. INTRODUCTION; 2. A SYSTEMS APPROACH 3. EFFECT OF CONTAMINATION CONTROL MEASURES ONRPN SCORES4. PITFALLS; 5. CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; Chapter 3Particles in Semiconductor Processing; 1. INTRODUCTION; 2.

THEORY; 3. PARTICLE REMOVAL STUDY; 4. CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; Chapter 4Continuous Contamination Monitoring Systems; 1. INTRODUCTION; 2. CASE STUDIES OF TRADITIONAL VERSUS CRITICAL ANDBUSY SAMPLING FOR AIRBORNE PARTICLE COUNTS; 3. IN SITU PARTICLE MONITORING OF CLEANINGEQUIPMENT; 4. WHAT TO CONTINUOUSLY MONITOR IN HIGHTECHNOLOGYMANUFACTURING; REFERENCES
Chapter 5Strippable Coatings for Removal of Surface Contaminants1. INTRODUCTION; 2. COATING DESCRIPTION; 3. TYPES OF STRIPPABLE COATINGS; 4. ISSUES WITH STRIPPABLE COATINGS; 5. PRECISION CLEANING APPLICATIONS; 6. SUMMARY; ACKNOWLEDGEMENTS; DISCLAIMER; REFERENCES; Chapter 6Ultrasonic Cleaning; 1. INTRODUCTION; 2. ULTRASONIC CLEANING; 3. PRINCIPLES OF ULTRASONIC CLEANING; 4. SURFACE CLEANLINESS MEASUREMENT; 5. THEORY OF ULTRASONIC CLEANING; 6. EXPERIMENTS IN SONIC CLEANING; 7. CLEANING OPTIMIZATION; ACKNOWLEDGEMENTS; REFERENCES; Index; ColorPlates

Sommario/riassunto

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 handling the consequences of surface contamination. Topics covered include: A systems analysis approach to contamination control Physical factors that influence the behavior of particle deposition in enclosures An overview of current yield models and description of advanced modelsTypes of strippab