



Contamination and ESD Control in High Technology Manufacturing

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Wiley-IEEE Press, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PREFACE. 1 FUNDAMENTALS OF CONTAMINATION CONTROL. 1.1 Introduction. 1.2 Glossary of Contamination Control Terms. 1.3 Specifying Contamination in Air and on Surfaces. 1.4 Sources of Contamination. 1.5 Contamination Control Requirements. 1.6 Pertinent Standards. References and Notes. Additional Reading. 2 FUNDAMENTALS OF ESD CONTROL. 2.1 Introduction and Historical Perspective. 2.2 Glossary of Electrostatic Charge Control Terms. 2.3 Sources of Electrostatic Charge. 2.4 Requirements of ESD Control. 2.5 Building the ESD-Safe Workplace. 2.6 ESD Controls for People. 2.7 Consumables and Accessories. 2.8 Personnel Equipment and Procedures for Its Use. 2.9 Transportation of ESD-Sensitive Products. 2.10 Inspections and Record Keeping. 2.11 ESD Control Program. 2.12 ESD and Contamination Control. 2.13 Useful Reference Standards. References and Notes. 3 SAMPLING AND ANALYSIS METHODS. 3.1 Introduction. 3.2 Classification of Analysis Methods. 3.4 Organic Contamination Analysis Methods. 3.5 Ionic and Inorganic Contamination Analysis Methods. 3.6 Electrostatic Discharge Methods. 3.7 Numerical Simulation. 3.8 Algebraic Predictive Modeling. 3.9 Statistical Analysis Methods. Additional Reading. References and Notes. 4 FACILITIES DESIGN: CONTAMINATION- AND ESD-SAFE WORK AREAS. 4.1 Introduction. 4.2 Basics of Cleanroom Design. 4.3 Cleanrooms. 4.4 Cleanroom Construction and Operating Costs. 4.5 Modern Energy-Saving...

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