

Contamination Free Manufacturing For Semiconductors And Other Precision Products

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Clarifies significant problems and decisions facing the industry by analyzing NTRS standards and contamination mechanisms. Containing over 700 literature references, drawings, photographs, equations, and tables, Contamination-Free Manufacturing for Semiconductors and Other Precision Products is an essential reference for electrical and electronics, instrumentation, process, manufacturing, development, contamination control and quality engineers; physicists; and upper-level undergraduate and ...

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INTRODUCTION : #1 Contamination Free Manufacturing For Semiconductors Publish By R. L. Stine, Contamination Free Manufacturing For Semiconductors And summarizing up to date control practices in the industry contamination free manufacturing for semiconductors and other precision products details the physics and chemistry behind the mechanisms leading

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Recognizing the need for improved control measures in the manufacturing process of highly sensitized semiconductor technology, this practical reference provides in-depth and advanced treatment on the origins, procedures, and disposal of a variety of contaminants. It uses contemporary examples based on the latest hardware and processing apparatus to illustrate previously unavailable results and insights along with experimental and theoretical developments. Ensures the proper methods necessary to meet the standards established in the 1997 National Technology Roadmap for Semiconductors (NTRS)! Summarizing up-to-date control practices in the industry, Contamination-Free Manufacturing for Semiconductors and Other Precision Products: Details the physics and chemistry behind the mechanisms leading to contamination-induced failures Considers particles and molecular contaminants, including the entire spectrum of mass-based contaminants Outlines primary contamination problems and target control levels Reveals and offers solutions to inadequate areas of measurement capability and control technology Clarifies significant problems and decisions facing the industry by analyzing NTRS standards and contamination mechanisms Containing over 700 literature references, drawings, photographs, equations, and tables, Contamination-Free Manufacturing for Semiconductors and Other Precision Products is an essential reference for electrical and electronics, instrumentation, process, manufacturing, development, contamination control and quality engineers; physicists; and upper-level undergraduate and graduate students in these disciplines.

This comprehensive volume provides an in-depth discussion of the fundamentals of cleaning and surface conditioning of semiconductor applications such as high-k/metal gate cleaning, copper/low-k cleaning, high dose implant stripping, and silicon and SiGe passivation. The theory and fundamental physics associated with wet etching and wet cleaning is reviewed, plus the surface and colloidal aspects of wet processing. Formulation development practices and methodology are presented along with the applications for preventing copper corrosion, cleaning aluminum lines, and other sensitive layers. This is a must-have reference for any engineer or manager associated with using or supplying cleaning and contamination free technologies for semiconductor manufacturing. From the Reviews... "This handbook will be a valuable resource for many academic libraries. Many engineering librarians who work with a variety of programs (including, but not limited to Materials Engineering) should include this work in their collection. My recommendation is to add this work to any collection that serves a campus with a materials/manufacturing/electrical/computer engineering programs and campuses with departments of physics and/or chemistry with large graduate-level enrollment." —Randy Wallace, Department Head, Discovery Park Library, University of North Texas

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Developments in Surface Contamination and Cleaning, Vol. 1: Fundamentals and Applied Aspects, Second Edition, provides an excellent source of information on alternative cleaning techniques and methods for characterization of surface contamination and validation. Each volume in this series contains a particular topical focus, covering the key techniques and recent developments in the area. This volume forms the heart of the series, covering the fundamentals and application aspects, characterization of surface contaminants, and methods for removal of surface contamination. In addition, new cleaning techniques effective at smaller scales are considered and employed for removal where conventional cleaning techniques fail, along with new cleaning techniques for molecular contaminants. The Volume is edited by the leading experts in small particle surface contamination and cleaning, providing an invaluable reference for researchers and engineers in R&D, manufacturing, quality control, and procurement specification in a multitude of industries such as aerospace, automotive, biomedical, defense, energy, manufacturing, microelectronics, optics and xerography. Provides best-practice guidance for scientists and engineers engaged in surface cleaning or those who handle the consequences of surface contamination Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries as spearheaded by the semiconductor industry Presents state-of-the-art survey information on precision cleaning and characterization methods as written by a team of world-class experts in the field

There is something Alice-in-Wonderlandish about powerful and vital computer systems being shut down by a microscopic mote that a hay-feverist wouldn't sneeze at, but as computer chips get smaller, smaller and smaller particles on their surface have a larger and larger effect on their performance. In

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