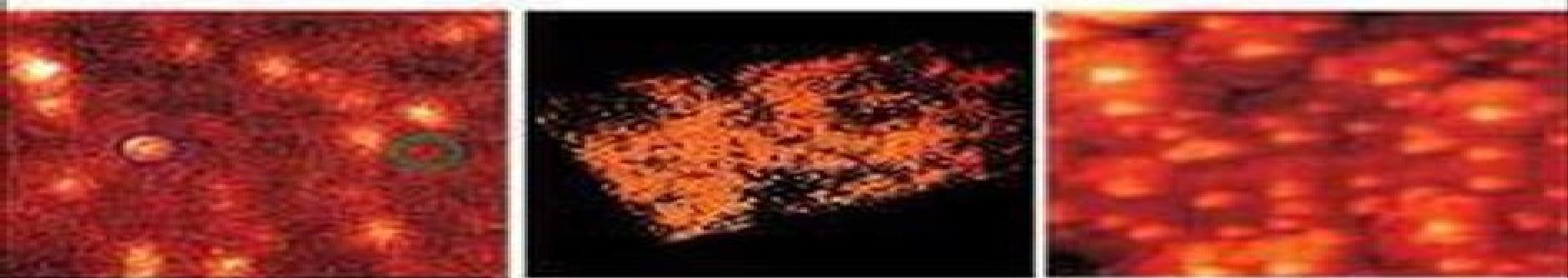




# **Developments in Surface Contamination and Cleaning**

**Methods for Assessment and Verification of Cleanliness of  
Surfaces and Characterization of Surface Contaminants**



**Volume Twelve**

**Edited by**  
**Rajiv Kohli and K.L. Mittal**

# Surface Contamination And Cleaning

**Rajiv Kohli**

## **Surface Contamination And Cleaning:**

Developments in Surface Contamination and Cleaning, Vol. 1 Rajiv Kohli,Kashmiri L. Mittal,2015-11-12 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

**Developments in Surface Contamination and Cleaning, Volume 8** Rajiv Kohli,Kashmiri L. Mittal,2014-11-19 As device sizes in the semiconductor industries shrink devices become more vulnerable to smaller contaminant particles and most conventional cleaning techniques employed in the industry are not effective at smaller scales The book series Developments in Surface Contamination and Cleaning as a whole provides an excellent source of information on these alternative cleaning techniques as well as methods for characterization and validation of surface contamination Each volume has a particular topical focus covering the key techniques and recent developments in the area Several novel wet and dry surface cleaning methods are addressed in this Volume Many of these methods have not been reviewed previously or the previous reviews are dated These methods are finding increasing commercial application and the information in this book will be of high value to the reader Edited by the leading experts in small scale particle surface contamination cleaning and cleaning control these books will be an invaluable reference for researchers and engineers in R D manufacturing quality control and procurement specification situated in a multitude of industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography Provides 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 Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries spearheaded by the semiconductor industry and others Covers novel wet and dry surface cleaning methods of

increasing commercial importance

**Developments in Surface Contamination and Cleaning: Applications of Cleaning Techniques** Rajiv Kohli,K.L. Mittal,2018-11-27 Developments in Surface Contamination and Cleaning Applications of Cleaning Techniques Volume Eleven part of the Developments in Surface Contamination and Cleaning series provides a guide to recent advances in the application of cleaning techniques for the removal of surface contamination in various industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography The material in this new edition compiles cleaning applications into one easy reference that has been fully updated to incorporate new applications and techniques Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning Presents the latest reviewed technical information on precision cleaning applications as written by established experts in the field Provides a single source on the applications of innovative precision cleaning techniques for a wide variety of industries Serves as a guide to the selection of precision cleaning techniques for specific applications

**Developments in Surface Contamination and Cleaning, Volume 7**

Rajiv Kohli,Kashmiri Mittal,2014 As device sizes in the semiconductor industries are shrinking they become more vulnerable to smaller contaminant particles and most conventional cleaning techniques employed in the industry are not as effective at smaller scales The book series Developments in Surface Contamination and Cleaning as a whole provides an excellent source of information on these alternative cleaning techniques as well as methods for characterization and validation of surface contamination Each volume has a particular topical focus covering the key techniques and recent developments in the area The chapters in this Volume address the sources of surface contaminants and various methods for their collection and characterization as well as methods for cleanliness validation Regulatory aspects of cleaning are also covered The collection of topics in this book is unique and complements other volumes in this series Edited by the leading experts in small scale particle surface contamination cleaning and cleaning control these books will be an invaluable reference for researchers and engineers in R D manufacturing quality control and procurement specification situated in a multitude of industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography Provides 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 Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries spearheaded by the semiconductor industry and others Includes new regulatory aspects

**Developments in Surface Contamination and Cleaning** Rajiv Kohli,Kashmiri Mittal,2016 Developments in Surface Contamination and Cleaning Methods for Surface Cleaning Volume 9 part of the Developments in Surface Contamination and Cleaning series provide a state of the art guide to the current knowledge on the behavior of film type and particulate surface contaminants and their associated cleaning methods This newest volume in the series discusses methods of surface cleaning of contaminants and the resources that are needed to deal with them Taken as a whole the series forms a unique reference

for professionals and academics working in the area of surface contamination and cleaning A strong theme running through the series is that of surface contamination and cleaning at the micro and nano scales Provides a comprehensive coverage of innovations in surface cleaning Written by established experts in the surface cleaning field presenting an authoritative resource Contains a comprehensive review of the state of the art including case studies to enhance the learning process

**Developments in Surface Contamination and Cleaning** Rajiv Kohli,Kashmiri L. Mittal,2008-01-10 Surface contamination is of cardinal importance in a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical Thus the need to understand the causes of surface contamination and their removal is very patent Generally speaking there are two broad categories of surface contaminants film type and particulates In the world of shrinking dimensions such as the ever decreasing size of microelectronic devices there is an intensified need to understand the behavior of nanoscale particles and to devise ways to remove them to an acceptable level Particles which were functionally innocuous a few years ago are killer defects today with serious implications for yield and reliability of the components This book addresses the sources detection characterization and removal of both kinds of contaminants as well as ways to prevent surfaces from being contaminated A number of techniques to monitor the level of cleanliness are also discussed Special emphasis is placed on the behaviour of nanoscale particles The book is amply referenced and profusely illustrated Excellent reference for a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical A single source document addressing everything from the sources of contamination to their removal and prevention Amply referenced and profusely illustrated Developments in Surface Contamination and Cleaning - Vol 6 Rajiv Kohli,Kashmiri L. Mittal,2013-06-12 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 handling the consequences of surface contamination The expert contributions in this volume cover important fundamental aspects of surface contamination that are key to understanding the behavior of specific types of contaminants This understanding is essential to develop preventative and mitigation methods for contamination control The coverage complements the treatment of surface contamination in vol 1 Fundamental and Applied Aspects This volume covers Sources and Generation of Particles Manipulation Techniques for Particles on Surfaces Particle Deposition and Rebound Particle Behavior in Liquid Systems Biological and Metallic Contamination and includes a comprehensive list of current standards and resources Developments in Surface Contamination and Cleaning, Volume 12 Rajiv Kohli,K.L. Mittal,2019-06-08 Developments in Surface Contamination and Cleaning Methods for Assessment and Verification of Cleanliness of Surfaces and Characterization of Surface Contaminants Volume Twelve the latest release in the Developments in Surface Contamination and Cleaning series provides best practices on determining surface cleanliness Chapters include an introduction to the nature and size of particles a discussion of cleanliness levels detailed coverage of

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Developments in Surface Contamination and Cleaning Methods for Surface Cleaning Volume 9 part of the Developments in Surface Contamination and Cleaning series provide a state of the art guide to the current knowledge on the behavior of film type and particulate surface contaminants and their associated cleaning methods This newest volume in the series discusses methods of surface cleaning of contaminants and the resources that are needed to deal with them Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning A strong theme running through the series is that of surface contamination and cleaning at the micro and nano scales Provides a comprehensive coverage of innovations in surface cleaning Written by established experts in the surface cleaning field presenting an authoritative resource Contains a comprehensive review of the state of the art including case studies to enhance the learning process

Surface Contamination and Cleaning Kash L. Mittal, 2003-03-01 This volume documents the proceedings of the International Symposium on Surface Contamination and Cleaning held in Newark New Jersey May 23 25 2001 Because of the importance of this topic in many technological areas tremendous efforts have been devoted to devise novel and more efficient ways to monitor analyse and characterize contamination **Surface Contamination and Cleaning** Kash L.

Mittal, 2003-03-01 This volume documents the proceedings of the International Symposium on Surface Contamination and Cleaning held in Newark New Jersey May 23 25 2001 Because of the importance of this topic in many technological areas tremendous efforts have been devoted to devise novel and more efficient ways to monitor analyse and characterize contamination Developments in Surface Contamination and Cleaning, Volume 7 Rajiv Kohli, Kashmire L. Mittal, 2014-11-18

As device sizes in the semiconductor industries are shrinking they become more vulnerable to smaller contaminant particles and most conventional cleaning techniques employed in the industry are not as effective at smaller scales The book series Developments in Surface Contamination and Cleaning as a whole provides an excellent source of information on these alternative cleaning techniques as well as methods for characterization and validation of surface contamination Each volume has a particular topical focus covering the key techniques and recent developments in the area The chapters in this Volume

address the sources of surface contaminants and various methods for their collection and characterization as well as methods for cleanliness validation Regulatory aspects of cleaning are also covered The collection of topics in this book is unique and complements other volumes in this series Edited by the leading experts in small scale particle surface contamination cleaning and cleaning control these books will be an invaluable reference for researchers and engineers in R D manufacturing quality control and procurement specification situated in a multitude of industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography Provides 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 Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries spearheaded by the semiconductor industry and others Includes new regulatory aspects

### **Developments in Surface Contamination and**

**Cleaning** Rajiv Kohli,Kashmiri L. Mittal,2007-12-17 Surface contamination is of cardinal importance in a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical Thus the need to understand the causes of surface contamination and their removal is very patent Generally speaking there are two broad categories of surface contaminants film type and particulates In the world of shrinking dimensions such as the ever decreasing size of microelectronic devices there is an intensified need to understand the behavior of nanoscale particles and to devise ways to remove them to an acceptable level Particles which were functionally innocuous a few years ago are killer defects today with serious implications for yield and reliability of the components This book addresses the sources detection characterization and removal of both kinds of contaminants as well as ways to prevent surfaces from being contaminated A number of techniques to monitor the level of cleanliness are also discussed Special emphasis is placed on the behaviour of nanoscale particles The book is amply referenced and profusely illustrated Excellent reference for a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical A single source document addressing everything from the sources of contamination to their removal and prevention Amply referenced and profusely illustrated

### **Developments in Surface Contamination and Cleaning: Types of Contamination and Contamination Resources**

Rajiv Kohli,Kashmiri L. Mittal,2016-11-21 Developments in Surface Contamination and Cleaning Volume Ten provides a state of the art guide to the current knowledge on the behavior of film type and particulate surface contaminants and their cleaning methods This newest volume in the series discusses mechanisms of particle adhesion particle behavior in liquid systems and metallic contamination and its impact In addition the book includes a discussion of the types of contaminants with resources to deal with them and information on environmental issues related to surface contamination and cleaning Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning that also includes information on cleaning at the micro and nano scales Written by established experts in the contamination field that provide an authoritative resource Presents a comprehensive review of new trends in contaminants and resources

for dealing with those contaminants Contains detailed case studies to illustrate various scenarios Developments in Surface Contamination and Cleaning - Vol 6 Rajiv Kohli,Kashmiri L. Mittal,2013-05-27 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 handling the consequences of surface contamination The expert contributions in this volume cover important fundamental aspects of surface contamination that are key to understanding the behavior of specific types of contaminants This understanding is essential to develop preventative and mitigation methods for contamination control The coverage complements the treatment of surface contamination in vol 1 Fundamental and Applied Aspects This volume covers Sources and Generation of Particles Manipulation Techniques for Particles on Surfaces Particle Deposition and Rebound Particle Behavior in Liquid Systems Biological and Metallic Contamination and includes a comprehensive list of current standards and resources Comprehensive coverage of innovations in surface contamination and cleaning Written by established experts in the contamination and cleaning field Each chapter is a comprehensive review of the state of the art Case studies included **Developments in Surface Contamination and Cleaning** Rajiv Kohli,2016 Developments in surface contamination and cleaning Rajiv

Kohli,K. L. Mittal,2011 *Developments in Surface Contamination and Cleaning - Vol 2* Rajiv Kohli,Kashmiri L. Mittal,2009-11-20 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 models Types of strippable coatings their properties and applications of these coatings for removal of surface contaminants In depth coverage of ultrasonic cleaning Contamination and cleaning issues at the nanoscale Experimental results illustrating the impact of model parameters on the removal of particle contamination The expert contributions in this book provide a valuable source of information on the current status and recent developments in surface contamination and cleaning The book will be of value to industry government and academic personnel involved in research and development manufacturing process and quality control and procurement specifications across sectors including microelectronics aerospace optics xerography and joining adhesive bonding **ABOUT THE EDITORS** Rajiv Kohli is a leading expert with The Aerospace Corporation in contaminant particle behavior surface cleaning and contamination control At the NASA Johnson Space Center in Houston Texas he provides technical support for contamination control related to ground based and manned spaceflight hardware for the Space Shuttle the International Space Station and the new Constellation Program that is designed to meet the United States Vision for Space Exploration Kashmiri Lal Kash Mittal was associated with IBM from 1972 to 1994 Currently he is teaching and consulting in the areas of surface contamination and

cleaning and in adhesion science and technology He is the Editor in Chief of the Journal of Adhesion Science and Technology and is the editor of 98 published books many of them dealing with surface contamination and cleaning Also available Developments in Surface Contamination and Cleaning Volume 1 Fundamentals and Applied Aspects edited by Rajiv Kohli K L Mittal ISBN 9780815515555 Provides guidance on best practice cleaning techniques and the avoidance of surface contamination Covers contamination and cleaning issues at the nanoscale Includes an in depth look at ultrasonic cleaning

**Developments in Surface Contamination and Cleaning, Volume 4** Rajiv Kohli, K. L. Mittal, 2011-10-24 The contributions in this volume cover methods for removal of particle contaminants on surfaces Several of these methods are well established and have been employed in industrial applications for a long time However the ever higher demand for removal of smaller particles on newer substrate materials is driving continuous development of the established cleaning methods and alternative innovative methods for particle removal This book provides information on the latest developments in this topic area The purpose of the Developments in Surface Contamination and Cleaning series is to provide a state of the art guide to the current knowledge of the behaviour of film type and particulate surface contaminants and cleaning methods Each title has a particular topical focus covering the key techniques and recent developments in the area Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning A strong theme running through the series is that of surface contamination and cleaning at the micro and nano scales Covers the latest techniques in areas such as removal of nanoparticles especially important in the semiconductor industry disk drives and microelectronics The series as a whole represents the definitive reference on Surface Contamination and Cleaning An essential reference for industries where cleaning is critical electronics optics pharmaceutical manufacturing etc

**Developments in Surface Contamination and Cleaning - Vol 5** Rajiv Kohli, K. L. Mittal, 2012-11-29 Resumen Surface contamination is of cardinal importance in a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical Thus the need to understand the causes of surface contamination and their removal is very patent Generally speaking there are two broad categories of surface contaminants film type and particulates In the world of shrinking dimensions such as the ever decreasing size of microelectronic devices there is an intensified need to understand the behavior of nanoscale particles and to devise ways to remove them to an acceptable level Particles which were functionally innocuous a few years ago are killer defects today with serious implications for yield and reliability of the components This book addresses the sources detection characterization and removal of both kinds of contaminants as well as ways to prevent surfaces from being contaminated A number of techniques to monitor the level of cleanliness are also discussed Special emphasis is placed on the behaviour of nanoscale particles The book is amply referenced and profusely illustrated Excellent reference for a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical A single source document addressing everything from the sources of contamination to their removal and

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