

Product Design & Front End



IC Design



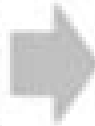
Silicon Ingot



Wafer Fabrication



Probe Test


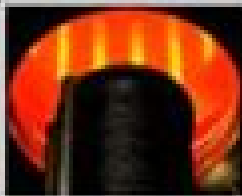




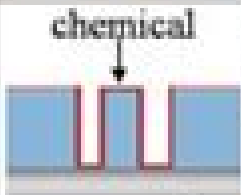

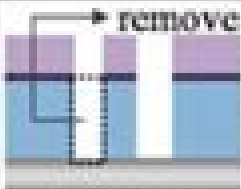









Assembly



Final Test

Wafer Fabrication Process

| No | Process | Image | Equipment Structure | No | Process | Image | Equipment Structure |
|----|------------------|---|---|----|---------------------------------------|---|---|
| ① | Oxidation |  |  | ⑤ | Ion-Implantation |  |  |
| ② | Lithography |  |  | ⑥ | Chemical Vapor Deposition |  |  |
| ③ | Etching |  |  | ⑦ | Metal Deposition |  |  |
| ④ | Strip & Cleaning |  |  | ⑧ | Chemical and Mechanical Planarization |  |  |

Particle Control For Semiconductor Manufacturing

**T. Hattori, P. Mertens, R. Novak, J.
Ruzyllo**



Particle Control For Semiconductor Manufacturing:

Particle Control for Semiconductor Manufacturing Donovan, 2018-05-04 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 Particle Control for Semiconductor Manufacturing Robert P. Donovan, Semiconductor Research Corporation, Research Triangle Institute, 1988

Contamination-Free Manufacturing for Semiconductors and Other Precision Products Robert P. Donovan, 2018-10-08 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 *Developments in Surface Contamination and Cleaning, Volume 3* Rajiv Kohli, Kashmiri L.

Mittal, 2011-03-25 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 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 Environmental Monitoring for Cleanrooms and Controlled Environments Anne Marie Dixon, 2016-04-19 A critical technology in the science of contamination control environmental monitoring is a technique that provides important data on the quality of a process processing environment and final product which can aid scientists in

identifying and eliminating potential sources of contamination in cleanrooms and controlled environments In response

Microelectronics Manufacturing Diagnostics Handbook Abraham Landzberg, 2012-12-06 The world of microelectronics is filled with cusses measurement systems manufacturing many success stories From the use of semi control techniques test diagnostics and fail ure analysis It discusses methods for modeling conductors for powerful desktop computers to their use in maintaining optimum engine per and reducing defects and for preventing de formance in modem automobiles they have fects in the first place The approach described clearly improved our daily lives The broad while geared to the microelectronics world has useability of the technology is enabled how applicability to any manufacturing process of similar complexity The authors comprise some ever only by the progress made in reducing their cost and improving their reliability De of the best scientific minds in the world and fect reduction receives a significant focus in our are practitioners of the art The information modem manufacturing world and high quality captured here is world class I know you will diagnostics is the key step in that process find the material to be an excellent reference in of product failures enables step func Analysis your application tion improvements in yield and reliability which works to reduce cost and open up new Dr Paul R Low applications and technologies IBM Vice President and This book describes the process of defect re of Technology Products General Manager duction in the microelectronics world

Particles on Surfaces 3 K.L. Mittal, 2013-11-11 This volume chronicles the proceedings of the Third Symposium on Particles on Surfaces Detection Adhesion and Removal held as a part of the 21st Annual Meeting of the Fine Particle Society in San Diego California August 21 25 1990 The first two symposia i n t h i s series were held in 1986 and 1988 respectively and have been properly l documented 2 Li ke its antecedent s the Third symposium was very well received and the continuing success of these symposia reinforced our earlier belief that regular symposia on the topic of particles on surfaces were very much needed Concomitantly the fourth symposium in this series is planned in Las Vegas July 13 17 199 2 l As pointed out in the Preface to the earlier two volumes 2 the topic of particles on surfaces is of tremendous interest and concern in a wide spectrum of technological areas The objectives of the Third symposium were es s ent i a l ly the same as those of the earlier two and our intent her e was to provide an update on the research and development activities in the world of particles on surfaces Apropos there has been a deliberate attempt every time to s eek out new people to present their research results and we have been very succes s f u l in this mission

Handbook of Silicon Wafer Cleaning Technology Karen Reinhardt, Werner Kern, 2018-03-16 Handbook of Silicon Wafer Cleaning Technology Third Edition provides an in depth discussion of cleaning etching and surface conditioning for semiconductor applications The fundamental physics and chemistry associated with wet and plasma processing are reviewed including surface and colloidal aspects This revised edition includes the developments of the last ten years to accommodate a continually involving industry addressing new technologies and materials such as germanium and III V compound semiconductors and reviewing the various techniques and methods for cleaning and surface conditioning Chapters include

numerous examples of cleaning technique and their results The book helps the reader understand the process they are using for their cleaning application and why the selected process works For example discussion of the mechanism and physics of contamination metal particle and organic includes information on particle removal metal passivation hydrogen terminated silicon and other processes that engineers experience in their working environment In addition the handbook assists the reader in understanding analytical methods for evaluating contamination The book is arranged in an order that segments the various cleaning techniques aqueous and dry processing Sections include theory chemistry and physics first then go into detail for the various methods of cleaning specifically particle removal and metal removal amongst others Focuses on cleaning techniques including wet plasma and other surface conditioning techniques used to manufacture integrated circuits Reliable reference for anyone that manufactures integrated circuits or supplies the semiconductor and microelectronics industries Covers processes and equipment as well as new materials and changes required for the surface conditioning process

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

Handbook for Cleaning for Semiconductor Manufacturing Karen A. Reinhardt, Richard F. Reidy, 2011-04-12 Provides an In depth discussion of surface conditioning for semiconductor applications The Handbook of Cleaning for Semiconductor Manufacturing Fundamentals and Applications provides an in depth discussion of surface conditioning for semiconductor applications The fundamental physics and chemistry associated with wet processing is reviewed as well as surface and colloidal aspects of cleaning and etching Topics covered in this new reference include Front end line FEOL and back end of line BEOL cleaning applications such as high k metal gate post etch cleaning and pore sealing high dose implant stripping and cleaning and germanium and silicon passivation Formulation development practices methodology and a new directions

are presented including chemicals used for preventing corrosion of copper lines cleaning aluminium lines reclaiming wafers and water bonding as well as the filtering and recirculating of chemicals including reuse and recycling Wetting cleaning and drying of features such as high aspect ratio features and hydrophilic surface states especially how to dry without watermarks the abilities to wet hydrophobic surfaces and to remove liquid from deep features The chemical reactions and mechanisms of silicon dioxide etching with hydrofluoric acid particle removal with ammonium hydroxide hydrogen peroxide mixture and metal removal with hydrochloric acid The Handbook of Cleaning for Semiconductor Manufacturing Fundamentals and Applications is a valuable resource for any engineer or manager associated with using or supplying cleaning and contamination free technologies for semiconductor manufacturing Engineers working for semiconductor manufacturing capital equipment chemicals or other industries that assures cleanliness of chemicals material and equipment in the manufacturing area will also find this handbook an indispensable reference

Semiconductor Cleaning Science and Technology 14 (SCST 14) T. Hattori, P. Mertens, R. Novak, J. Ruzyllo, 2015 **Particles in Gases and Liquids 2** K.L.

Mittal, 2013-11-11 This book chronicles the proceedings of the Second Symposium on Particles in Gases and Liquids Detection Characterization and Control held as a part of the 20th Annual Fine Particle Society meeting in Boston August 21 25 1989 As this second symposium was as successful as the prior one so we have decided to hold symposia on this topic on a regular biennial basis and the third symposium in this series is scheduled to be held at the 22nd Annual Meeting of the Fine Particle Society in San Jose California July 29 August 2 1991 As pointed out in the Preface to the prior volume in this series that recently there has been tremendous concern about yield losses due to unwanted particles and these unwelcome particles can originate from a legion of sources including process gases and liquids Also all signals indicate that in the future manufacture of sophisticated and sensitive microelectronic components with shrinking dimensions and other precision parts the need for detection characterization analysis and control of smaller and smaller particles will be more intensified

CleanRooms, 2008-07 A central resource of technology and methods for environments where the control of contamination is critical *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:**

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 Reliability and Failure of Electronic Materials and

Devices Milton Ohring,Lucian Kasprzak,2014-10-14 Reliability and Failure of Electronic Materials and Devices is a well established and well regarded reference work offering unique single source coverage of most major topics related to the performance and failure of materials used in electronic devices and electronics packaging With a focus on statistically predicting failure and product yields this book can help the design engineer manufacturing engineer and quality control engineer all better understand the common mechanisms that lead to electronics materials failures including dielectric breakdown hot electron effects and radiation damage This new edition adds cutting edge knowledge gained both in research labs and on the manufacturing floor with new sections on plastics and other new packaging materials new testing procedures and new coverage of MEMS devices Covers all major types of electronics materials degradation and their causes including dielectric breakdown hot electron effects electrostatic discharge corrosion and failure of contacts and solder joints New updated sections on failure physics on mass transport induced failure in copper and low k dielectrics and on reliability of lead free reduced lead solder connections New chapter on testing procedures sample handling and sample selection and experimental design Coverage of new packaging materials including plastics and composites **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

Semiconductor Technologies Jan Grym, 2010-04-01 Semiconductor technologies continue to evolve and amaze us New materials new structures new manufacturing tools and new advancements in modelling and simulation form a breeding ground for novel high performance electronic and photonic devices This book covers all aspects of semiconductor technology concerning materials technological processes and devices including their modelling design integration and manufacturing

Current Awareness in Particle Technology, 1994 *Microfiltration and Ultrafiltration* Zeman, 2017-11-22 Integrates knowledge on microfiltration and ultrafiltration membrane chemistry and characterization methods with the engineering and economic aspects of device performance device and module design processes and applications The text provides a discussion of membrane fundamentals and an analytical framework for designing and developing new filtrations systems for a broad range of technologically important functions It offers information on membrane liquid precursors fractal and stochastic pore space analysis novel and advanced module designs and original process design calculations

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