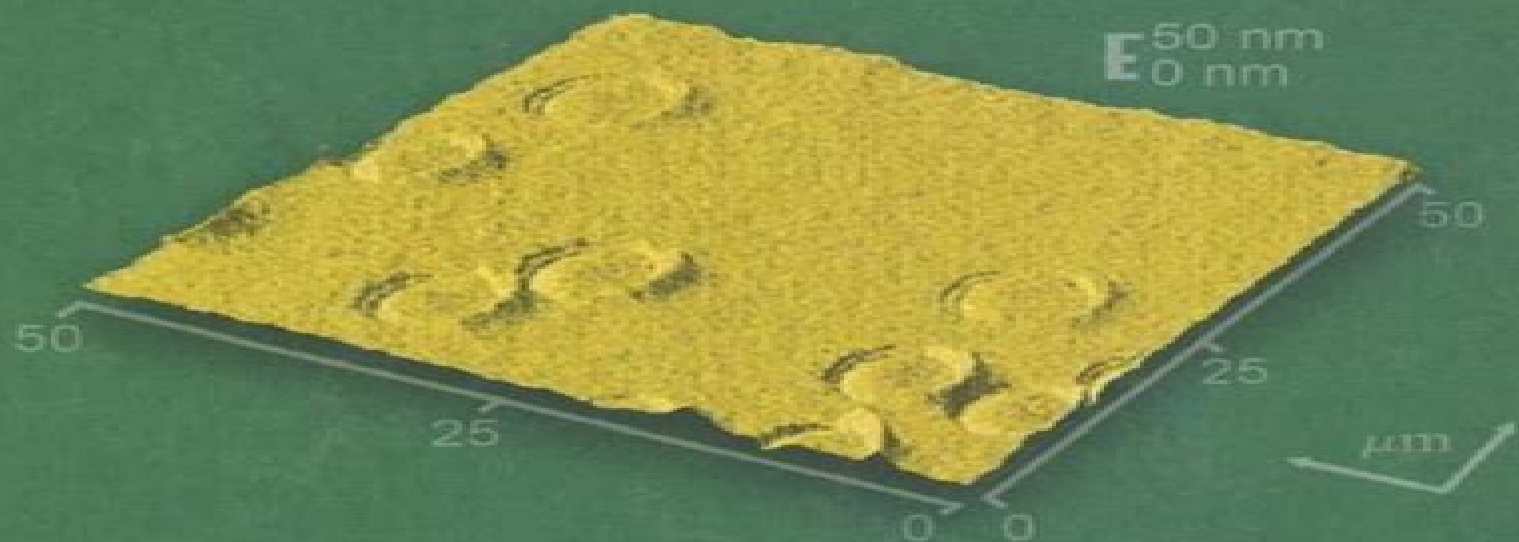


Handbook of SILICON WAFER CLEANING TECHNOLOGY

Second Edition

Materials Science & Process Technology Series



Edited by
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**Handbook Of Silicon Wafer Cleaning Technology 2nd
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Processing of 'Wide Band Gap Semiconductors S. J. Pearton, 2013-01-15 Wide bandgap semiconductors made from such materials as GaN SiC diamond and ZnSe are undergoing a strong resurgence in recent years principally because of their direct bandgaps which give them a huge advantage over the indirect gap SiC As an example more than 10 million blue LEDs using this technology are sold each month and new high brightness 15 lumens per watt long life white LEDs are under development with the potential to replace incandescent bulbs in many situations This book provides readers with a broad overview of this rapidly expanding technology bringing them up to speed on new discoveries and commercial applications It provides specific technical applications of key processes such as laser diodes LEDs and very high temperature electronic controls on engines focusing on doping etching oxidation passivation growth techniques and more

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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

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Handbook of Semiconductor Wafer Cleaning Technology Werner Kern, 1993-12-31 Discusses semiconductor wafer cleaning and the scientific and technical disciplines associated directly or indirectly with this subject Intended to serve as a handbook for practitioners and professionals in the field

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Science and Technology of Semiconductor Surface Preparation: Volume 477 Gregg S. Hagashi, 1997-09-30 The focus of semiconductor wafer processing is rapidly changing Pure device performance is no longer sufficient to ensure a technology's success as IC chips approach 1GB Yield reliability cost and manufacturability are principal drivers of the industry Great strides have been made in understanding the science and impact of front end pre metal chemical surface preparations and are beginning to influence the real technology and its evolution Efforts in understanding particle and metals removal along with Si surface etching and microroughness are prime examples of areas where work is beginning to pay off together with processes related to the back end post metal The focus of this book is to report new findings and to discuss surface preparation with an emphasis on gaining a mechanistic understanding of the underlying science upon which the technology is based Topics include megasonic cleaning SC1 technology surface preparation and gate oxide reliability CMP CMP cleaning post etch processing surface microroughness wet chemical cleaning and gate oxide integrity analytical studies of surfaces wet chemical cleaning etching dry wafer cleaning and environmentally friendly processing

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