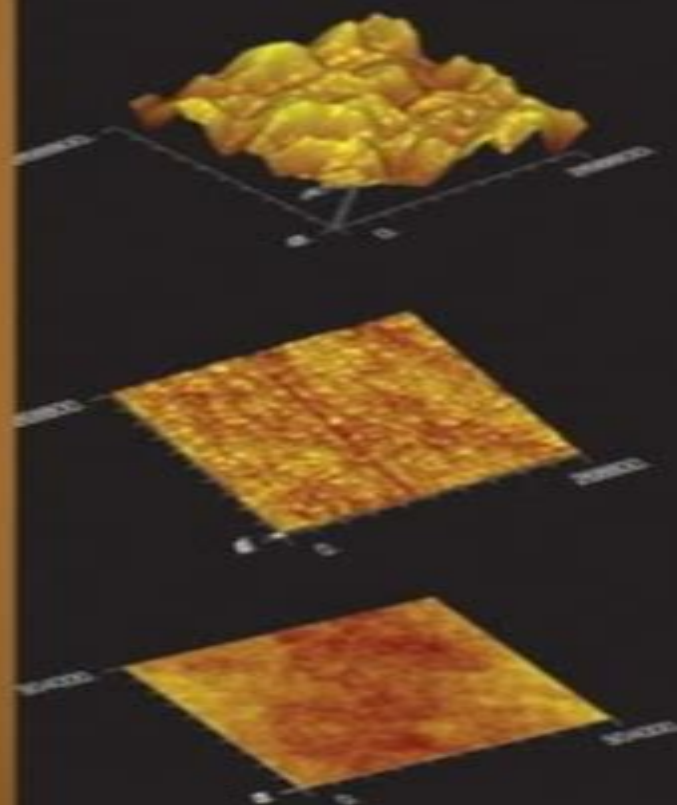


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Microelectronic Applications Of Chemical Mechanical Planarization

Rajiv Kohli, Kashmiri L. Mittal



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Chemical Mechanical Planarization of Microelectronic Materials Joseph M. Steigerwald, Shyam P. Murarka, Ronald J. Gutmann, 1997 The concluding chapter describes post CMP cleaning techniques and most chapters feature problem sets to assist readers in developing a more practical understanding of CMP The only comprehensive reference to one of the fastest growing integrated circuit manufacturing technologies Chemical Mechanical Planarization of Microelectronic Materials is an important resource for research scientists and engineers working in the microelectronics industry

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Chemical Mechanical Polishing 9 G. Banerjee, K. Sundaram, V. Desai, Y. Obeng, 2008-05 The papers included in this issue of ECS Transactions were originally presented in the symposium Chemical Mechanical Polishing 9 held during the 213th meeting of The Electrochemical Society in Phoenix Arizona from May 18 23 2008

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many sciences need to collaborate to create nano objects we need expertise in electronics microelectronics physics optics and mechanics also crossing into chemistry electrochemistry as well as biology biochemistry and medicine Chemistry is involved in many fields from materials chemicals gases liquids or salts the basics of reactions and equilibrium to the optimized cleaning of surfaces and selective etching of specific layers In addition over recent decades the size of the transistors has been drastically reduced while the functionality of circuits has increased This book consists of five chapters covering the chemicals and sequences used in processing from cleaning to etching the role and impact of their purity along with the materials used in Front End Of the Line which corresponds to the heart and performance of individual transistors then moving on to the Back End Of the Line which is related to the interconnection of all the transistors Finally the need for specific functionalization also requires key knowledge on surface treatments and chemical management to allow new applications

Handbook of Thin Film Deposition Krishna Seshan, 2012-06-27 Resumen The 2nd edition contains new chapters on contamination and contamination control that describe the basics and the issues Another new chapter on meteorology explains the growth of sophisticated automatic tools capable of measuring thickness and spacing of sub micron dimensions The book also covers PVD laser and e beam assisted deposition MBE and ion beam methods to bring together physical vapor deposition techniques Two entirely new areas are focused on chemical mechanical polishing which helps attain the flatness that is required by modern lithography methods and new materials used for interconnect dielectric materials specifically organic polyimide materials

Emerging Contaminants Aurel Nuro, 2021-05-27 Emerging Contaminants presents the reader with information on classification recent studies and adverse effects on the environment and human health of the main classes of contaminants Emerging contaminants are synthetic or natural compounds and microorganisms produced and used by humans that cause adverse ecological and human health effects when they reach the environment This book is organized into four sections that cover the classification of contaminants and the instrumental techniques used to quantify them recent studies on pesticides antibiotics as an important group of emerging contaminants and studies of different classes of emerging contaminants such as polybrominated diphenyl ethers PBDEs microplastics and others

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

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