# The Physics and Technology of Ion Sources

Second, Revised and Extended Edition



# **The Physics And Technology Of Ion Sources**

lan G. Brown

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**Microstructuring Technology** Gerhard Franz, 2009-04-09 Over the last forty years plasma supported processes have attracted ever creasing interest and now all modern semiconductor devices undergo at least one plasma involved processing step starting from surface cleaning via coating to etching In total the range of the treated substrates covers some orders of magnitude Trenches and linewidths of commercially available devices have ready passed the boundary of 100 nm decorative surface treatment will happen 2 in the mm range and the upper limit is reached with surface protecting layers of windows which are coated with 4 layers against IR radiation The rapid development of the semiconductor industry is inconceivable wi outthegiantprogressintheplasmatechnology Moore slawisnotcarvedinto 1 stone and not only the ITRS map is subject to change every ve years but also new branches develop and others mingle together Moreover the quality of conventional materials can be improved by plasma treatment Cottonbecomes more crease resistant leathermore durable and the shrinking of wool bers during the washing process can be signi cantly reduced To cut a long story short More than 150 years after the discovery of the sputtering e ect by Grove plasma based processes are about to spread out into new elds of research and application 1 no wonder that the market for etching machines kept growing by an annual rate of 17 % up to the burst of the **Reviews Of Accelerator Science And** internet bubble and it took only some years of recovery to continue the voyage 2 Technology - Volume 6: Accelerators For High Intensity Beams Alexander Wu Chao, Weiren Chou, 2014-04-01 As particle accelerators strive forever increasing performance high intensity particle beams become one of the critical demands requested across the board by a majority of accelerator users proton electron and ion and for most applications Much effort has been made by our community to pursue high intensity accelerator performance on a number of fronts Recognizing its importance we devote this volume to Accelerators for High Intensity Beams High intensity accelerators have become a frontier and a network for innovation They are responsible for many scientific discoveries and technological breakthroughs that have changed our way of life often taken for granted A wide range of topics is covered in the fourteen articles in this Proceedings of the 6th International Symposium on Electronic Beam Ion Sources and Their Applications L. volume Liljeby, 1997

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