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# The Physics and Technology of Ion Sources

Second, Revised and Extended Edition



# The Physics And Technology Of Ion Sources

**Terry C. Jones**



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

The Physics and Technology of Ion Sources Ian G. Brown, 2004-10-15 The first edition of this title has become a well known reference book on ion sources The field is evolving constantly and rapidly calling for a new up to date version of the book In the second edition of this significant title editor Ian Brown himself an authority in the field compiles yet again articles written by renowned experts covering various aspects of ion source physics and technology The book contains full chapters on the plasma physics of ion sources ion beam formation beam transport computer modeling and treats many different specific kinds of ion sources in sufficient detail to serve as a valuable reference text

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*Handbook of Ion Sources* Bernhard Wolf, 1995-08-31 The Handbook of Ion Sources delivers the data needed for daily work with ion sources It also gives information for the selection of a suitable ion source and ion production method for a specific application The Handbook concentrates on practical aspects and introduces the principle function of ion sources The basic plasma parameters are defined and discussed The working principles of various ion sources are explained and examples of each type of ion source are presented with their operational data Tables of ion current for various elements and charge states summarize the performance of different ion sources The problems related to the production of ions of non gaseous elements are detailed and data on useful materials for evaporation and ion source construction are summarized Additional chapters are dedicated to extraction and beam formation ion beam diagnosis ion source electronics and computer codes for extraction acceleration and beam transport Emittance and brilliance are described and space charge effects and neutralization discussed Various methods for the measurement of current profile emittance and time structure are presented and compared Intensity limits for these methods are provided for different ion energies Typical problems related to the operation of ion source plasmas are discussed and practical examples of circuits are given The influence of high voltage on ion source electronics and possibilities for circuit protection are covered The generation of microwaves and various microwave equipment are described and special problems related to microwave operation are summarized The Handbook of Ion Sources is a valuable reference on the subject of benefit to practitioners and graduate students interested in accelerators ion implantation and ion beam techniques

Industrial Ion Sources Viacheslav V. Zhurin, 2012-09-19 Due to the large number of uses of ion sources in academia and industry those who utilize these sources need up to date and coherent information to keep themselves abreast of developments and options and to chose ideal

solutions for quality and cost effectiveness This book written by an author with a strong industrial background and excellent standing is the comprehensive guide users and developers of ion sources have been waiting for Providing a thorough refresher on the physics involved this resource systematically covers the source types components and the operational parameters

**Development and Applications of Negative Ion Sources** Vadim Dudnikov, 2023-06-22 This book describes the development of sources of negative ions and their application in science and industry It describes the physical foundations and implementation of the key methods of negative ion production and control such as charge exchange thermionic emission plasma volume secondary emission sputtering and surface plasma sources as well as the history of their development Following on from this essential foundational material the book goes on to explore transport of negative ion beams and beam plasma instabilities Now in its second edition the book has been substantially expanded and updated to address the many developments since it was first published most importantly the development and investigation of cesiated surfaces with work function 1.2-1.3 eV in conditions close to discharges in surface plasma sources The book also includes a new chapter on development of conversion targets for high energy neutral beam injectors covering gas targets plasma targets and photon targets for efficient conversion of high energy negative ion beams to neutral beams With exposition accessible at the graduate level and a comprehensive bibliography this book will appeal to all students and researchers whose work concerns ion sources and their applications to accelerators beam physics storage rings cyclotrons and plasma traps

***Physics and Technology of Plasma Ion Sources*** M. D. Gabovich, FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO., 1973 Contents Brief information on certain elemental processes occurring in plasma ion sources Plasma ion sources basic physical processes designs properties and parameters The mass spectrum and charge composition of beams extracted from plasma ion sources Plasma sources of ions of refractory metals Extraction of ions and the primary formation of ion beams Beam propagation and a study of beams Penetration of a plasma from an ion source into a vacuum Energy of the ions leaving the source plasma The vibrational properties of a plasma and their influence on the processes in plasma ion sources and neutralized ion beams

**High Resolution Focused Ion Beams: FIB and its Applications** Jon Orloff, Lynwood Swanson, Mark Utlaut, 2003 In this book we have attempted to produce a reference on high resolution focused ion beams FIBs that will be useful for both the user and the designer of FIB instrumentation We have included a mix of theory and applications that seemed most useful to us The field of FIBs has advanced rapidly since the application of the first field emission ion sources in the early 1970s The development of the liquid metal ion source LMIS in the late 1960s and early 1970s and its application for FIBs in the late 1970s have resulted in a powerful tool for research and for industry There have been hundreds of papers written on many aspects of LMIS and FIBs and a useful and informative book on these subjects was published in 1991 by Phil Prewett and Grame Mair Because there have been so many new applications and uses found for FIBs in the last ten years we felt that it was time for another book on the subject

**Low Pressure Plasmas and**

Microstructuring Technology Gerhard Franz, 2009-04-09 Over the last forty years plasma supported processes have attracted ever increasing 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 readily passed the boundary of 100 nm decorative surface treatment will happen 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 without the giant progress in the plasma technology Moore's law is not carved into 1 stone and not only the ITRS map is subject to change every few years but also new branches develop and others mingle together Moreover the quality of conventional materials can be improved by plasma treatment Cotton becomes more crease resistant leather more durable and the shrinking of wool fibers during the washing process can be significantly reduced To cut a long story short More than 150 years after the discovery of the sputtering effect by Grove plasma based processes are about to spread out into new fields 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 internet bubble and it took only some years of recovery to continue the voyage 2

**Reviews Of Accelerator Science And Technology - Volume 6: Accelerators For High Intensity Beams** Alexander Wu Chao, Weiren Chou, 2014-04-01 As particle accelerators strive for ever 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 volume

**Scientific and Technical Aerospace Reports**, 1992

## Unveiling the Magic of Words: A Review of "**The Physics And Technology Of Ion Sources**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**The Physics And Technology Of Ion Sources**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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