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The Physics and Technology of Ion Sources

Second, Revised and Extended Edition



Physics And Technology Of Ion Sources

Vadim Dudnikov



Physics And Technology Of Ion Sources:

The Physics and Technology of Ion Sources Ian G. Brown, 1989 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 **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 **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, 2012-12-06 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

Development and Applications of Negative Ion Sources Vadim Dudnikov, 2019-10-18 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 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 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 *Electron Cyclotron Resonance Ion Sources and ECR Plasmas* R Geller, 1996-01-01 Acknowledged as the founding father of and world renowned expert on electron cyclotron resonance sources Richard Geller has produced a unique book devoted to the physics and technicalities of electron cyclotron resonance sources *Electron Cyclotron Resonance Ion Sources and ECR Plasmas* provides a primer on electron cyclotron phenomena in ion sources as well as being a reference to the field of ion source developments Coverage includes elements of plasma physics specific electron cyclotron resonance physics and the relevant technology directed at both scientists and engineers Scientific and Technical Aerospace Reports, 1992 *Handbook of Ion Sources* Bernhard Wolf, 2017-07-12 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 *An Ion Rocket with an Electron-bombardment Ion Source* Harold R. Kaufman, 1961 **Ion and Atomic Beams for Controlled Fusion and Technology** M.D. Gabovich, N.V. Pleshivtsev, N.N. Semashko, 2014-05-14 A beam of ions in the fonn of canal rays was first observed in 1886 by E Goldstein The first ion source was invented by J J Thomson in 1910 This ion source became the basis for the first widespread application of ion sources in mass spectrographs and mass spectrometers The second important application of ion sources is ion accelerators which since the beginning of the 1930s have been employed in research on nuclear reactions and are now used in industry and medicine A third application of ion sources is in systems for isotope separation and re search on the interaction of atomic particles with solids 1940s The result of this research and development is the use of ion sources in semiconductor doping decontamination of surfaces and micromachining of surfaces 1960s and 1970s which is a fourth area of applications for ion sources The heating of plasmas in magnetic confinement devices to thennonuclear temperatures 100 1000 MK with the aid of megawatt beams of hydrogen and deuterium ions and atoms has become a fifth promising area of application for ion sources which can produce ion beams with steady state currents of up to 100 A Finally experimental and industrial research are under way on the alloying of metals and the fabrication of coatings which greatly improve the physical and chemical properties of metals These coatings can increase the hardness high temperature corrosion resistance and wear resistance of metals and can enhance or reduce friction etc

X-Ray Radiation of Highly Charged Ions Heinrich F. Beyer, H.-J. Kluge, V.P. Shevelko, 2013-03-09 The physics of highly charged ions continues to be one of the most active and interesting fields of atomic physics A large fraction of the characteristic radiation of such ions lies in the x ray region and its spectroscopy represents an important experimental tool The field of x ray spectroscopy grew directly from the discovery of x radiation by Wilhelm Conrad Rontgen in 1895 The early contributions to atomic physics that arose out of x ray spectroscopy are well documented and are the subject of many

centennial events In the past the gross features of most x ray spectra in the hard x ray region have been accounted for on a hydrogenic model In many instances the gross spectral features recorded in the early days of x ray physics match those observed with state of the art techniques today and many of the early qualitative terpretations have remained unchanged It is in the details of the spectra that today s results are superior to those obtained many years ago and it is in the quantitative and accurate scriptions that today s predictions are better A rejuvenation of the field has occurred after the great achievements in the development of new ion sources for production of heavy ions with only one or few electrons The new tools available to the experimenter allow the exploration of new states of m ter and allow us to challenge new frontiers in our theoretical understanding of atoms and their interactions with other particles

AGARD Index of Publications North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development,1952 The Physics of Multiply and Highly Charged Ions F.J. Currell,2003-09-30 This book is the first in a series of two volumes providing an introduction and comprehensive review of the physics of highly charged ions Dealing with sources applications and fundamental processes it covers a wide range of topics varying from cancer therapy to tests of quantum electrodynamics Fusion related processes and those pertaining to astrophysics receive comprehensive coverage as well as theoretical and experimental treatments of the fundamental processes in which highly charged ions can become involved All of these subjects are covered and the newest findings are reviewed Proceedings of the Second International Conference on Ion Sources, September 11 - 15, 1972, Vienna, Austria Franz P. Viehböck,H. Winter,Manfred F. Bruck,1973 Atom and Ion Sources László Vályi,1977 *28th Plasmadynamics and Lasers Conference* ,1997 International Aerospace Abstracts ,1986 *IETE Technical Review* ,1992

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