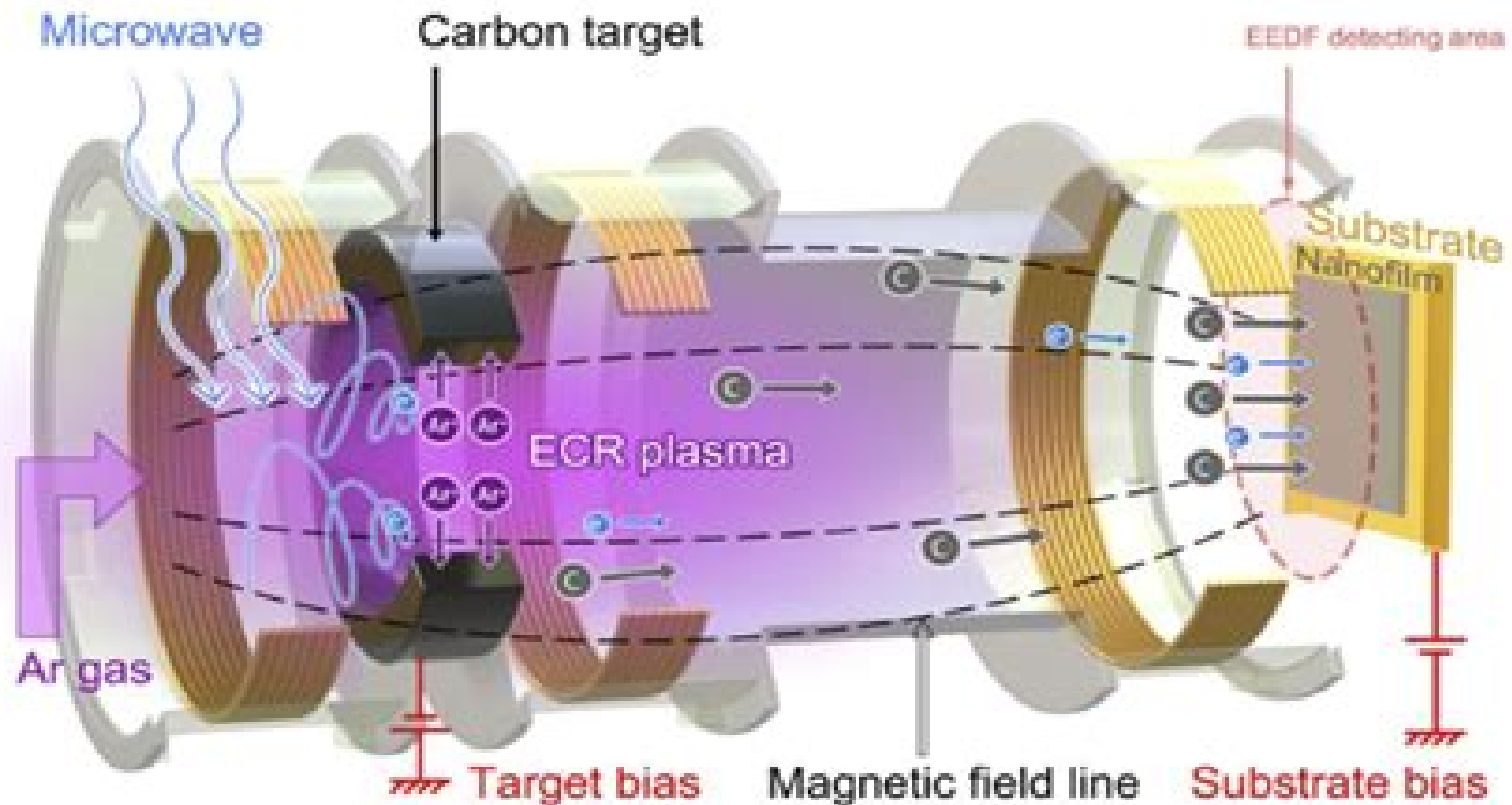
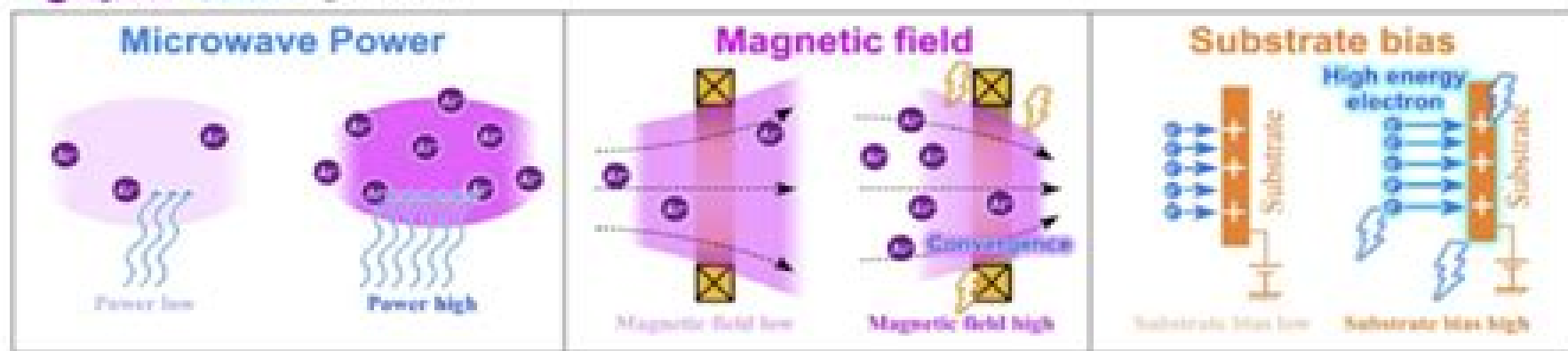


(a)

 $\text{Ar}^+$  Argon ion $e^-$  Electron $\text{C}$  Carbon atom

(b)

 $\text{Ar}^+$  Argon ion  $e^-$  Electron  $\text{C}$  Carbon atom

# Electron Cyclotron Resonance Ion Sources And Ecr Plasmas

**CL Gary**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow effect positioned to the right of the bar's end.

## **Electron Cyclotron Resonance Ion Sources And Ecr Plasmas:**

**Electron Cyclotron Resonance Ion Sources and ECR Plasmas** R Geller, 2018-12-13 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 sour

**Perturbative Measurements of Electron Cyclotron Resonance Ion Source Plasmas** Derek Elwin Neben, 2019 Heavy ion accelerators are a valuable resource for the nuclear science community to study atomic physics One such heavy ion accelerator is the Coupled Cyclotron Facility CCF at the National Superconducting Cyclotron Laboratory NSCL which relies on Electron Cyclotron Resonance ECR ion sources to provide the primary beam to the target ECR ion sources are essential for the efficient operation of research accelerators such as the CCF providing high currents of highly charged ions Highly charged ion beams increase the efficiency of the accelerators but require longer confinement times and higher temperature plasmas in the ion sources than is necessary to produce singly charged beams The need to use high temperature and low density plasmas creates challenges including those relating to plasma stability ECR ion sources provide a good platform to accept metallic vapor ovens and sputtering probes allowing the CCF to accelerate up to 30 types of beams ranging from oxygen to uranium Furthermore ECR ion sources use no filaments or cathodes providing a high degree of reliability for the accelerator facility As the intensity frontier demands ever rarer isotopes from accelerator facilities the heavy ion beam intensity must increase 70 which creates new demands from the ion sources The work presented within this dissertation set out to better understand the mechanism that confines highly charged ions in the ECR plasma Specifically it was explored if hot electrons energy larger than 50 keV contribute to ion confinement by generating an electrostatic well in the plasma potential 68 Perturbative measurements of ECR ion sources are presented with the aim to explore ion confinement times pulsed sputtering Chapter 4 and amplitude modulation Chapter 5 Chapter 3 explores the geometry of the sputtering probe with respect to the magnetic field which was crucial to produce reliable pulsed sputtering results on the ECR ion source Axial pulsed sputtering which could be conveniently implemented on fully superconducting sources incorporated a bias disc effect that highly perturbed the plasma Radial sputtering was emulated by placing a semi shielded probe along the plasma chamber wall in between the electron loss surfaces Ion confinement time was characterized through the decay time of the beam current which is proportional to ion confinement time Ion beam decay times were measured for different charge states of gold in an oxygen plasma in Chapter 4 Decay time always increased with increasing charge state Decay time also increased with hot electron temperature for lower frequency operation 13 GHz but reached an optimized value for higher frequency operation 18 GHz due to plasma instabilities Electrostatic confinement of ions appeared to be the most plausible mechanism to explain the observed decay time behaviors A novel perturbative measurement technique was developed for ECR ion sources using Amplitude Modulation

AM of microwave power The AM measurement was originally motivated by whether or not 50 kHz modulation in microwave power from the microwave source would be observable in the beam current A systematic study was organized on the University of Jyväskylä Physics Department JYFL normal conducting ECR ion source in Jyväskylä Finland Chapter 5 presents the beam current response to AM on the 14 GHz ECR ion source for different weights of noble gases magnetic fields and vacuum pressures The beam current amplitude generally decayed exponentially for frequencies higher than around 400 Hz with the modulation highly suppressed at 10 kHz **Electron Cyclotron Resonance Ion Sources** Matthaeus

Leitner, 2005-03-23 Berkeley California 26 30 September 2004 **Nuclear Physics and Astrophysics in Plasma Traps**

David Mascali, Sara Palmerini, Giuseppe Torrisi, Giacomo De Angelis, Domenico Santonocito, Karl-Ludwig Kratz, 2023-01-04

Advances in Imaging and Electron Physics Peter W. Hawkes, 2011-07-29 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy This series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains **Compact Plasma and Focused Ion Beams** Sudeep Bhattacharjee, 2013-12-12 Recent research has brought the application of microwaves from the classical fields of heating communication and generation of plasma discharges into the generation of compact plasmas that can be used for applications such as FIB and small plasma thrusters However these new applications bring with them a new set of challenges With coverage ran *Properties of Electron Cyclotron Resonance Plasma Sources* Aseem Kumar Srivastava, 1995

**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 *Introduction to the Physics of Highly Charged Ions* Heinrich F.

Beyer, Viatcheslav P. Shevelko, 2016-04-19 Emphasizing a physical understanding with many illustrations Introduction to the Physics of Highly Charged Ions covers the major areas of x ray radiation and elementary atomic processes occurring with highly charged ions in hot laboratory and astrophysical plasmas Topics include light and ion sources spectroscopy atomic structure magnetic and Fusion Energy Update ,1982-04 *Energy Research Abstracts* ,1993 Issues in Applied,

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**Processing Techniques** R.J. Shul, S.J. Pearton, 2011-06-28 Pattern transfer by dry etching and plasma enhanced chemical vapor deposition are two of the cornerstone techniques for modern integrated circuit fabrication The success of these methods has also sparked interest in their application to other techniques such as surface micromachined sensors read write heads for data storage and magnetic random access memory MRAM The extremely complex chemistry and physics of plasmas and their interactions with the exposed surfaces of semiconductors and other materials is often overlooked at the manufacturing stage In this case the process is optimized by an informed trial and error approach which relies heavily on design of experiment techniques and the intuition of the process engineer The need for regular cleaning of plasma reactors to remove built up reaction or precursor gas products adds an extra degree of complexity because the interaction of the reactive species in the plasma with the reactor walls can also have a strong effect on the number of these species available for etching or deposition Since the microelectronics industry depends on having high process yields at each step of the fabrication process it is imperative that a full understanding of plasma etching and deposition techniques be achieved

Smart Materials for Science and Engineering Upendra Kumar, Piyush Kumar Sonkar, 2024-05-07 SMART MATERIALS FOR SCIENCE AND ENGINEERING Smart materials also known as advanced or creative materials are described as

advanced materials that react intuitively to environmental changes or as materials that can return to their original shape in response to certain stimuli Smart materials are classified as either active or passive based on their characteristics There are two types of active materials The first kind cannot change its characteristics when subjected to outside stimuli for example photochromatic spectacles that only alter their color when exposed to sunlight The other which includes piezoelectric materials can change one sort of energy thermal electrical chemical mechanical or optical into another When subjected to external pressure it can generate an electric charge As an example optical fibers can transmit electromagnetic waves In contrast passive smart materials can transmit a specific sort of energy They have some amazing qualities that set them apart from other materials such as transiency meaning they can react to different kinds of external stimuli immediately self actuation or the capacity to change their appearance and shape selectivity where the response is divided and expected directness when the response is limited to the activating event shape changing where the material can change its shape to external stimuli their ability to determine their own health also known as self diagnosis and their ability to self heal The ability to synthesize novel materials has substantially progressed thanks to science and technology over the past 20 years They fall mostly into the following four categories polymers ceramics metals and smart materials Among these smart materials are gaining popularity since they have more uses than conventional materials Smart materials are unusual substances that have the ability to alter their properties such as those that can immediately change their phase when placed near a magnet or their shape simply by applying heat Humanity will be significantly impacted by this new era of smart materials For instance some of them can adapt their properties to the environment some have sensory capabilities some can repair themselves automatically and some can degrade themselves These extraordinary properties of smart materials will have an effect on all facets of civilization There are many different types of intelligent materials including magnetorheological materials electro rheostat materials shape memory alloys piezoelectric materials and more This book describes many forms of smart materials and their possible uses in various fields A literature survey discusses the different types of smart materials such as based ceramics polymers and organic compounds and their needs advantages disadvantages and applications will be comprehensively discussed A discussion of well established smart materials including piezoelectric magnetostrictive shape memory alloy electro rheological fluid and magnetorheological fluid materials will be discussed with their present prospects

The Physics and Technology of Ion Sources Ian G. Brown, 2006-03-06 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 **Cyclotrons**

**and Their Applications** John Christopher Cornell,1996      *Handbook of Physical Vapor Deposition (PVD) Processing*  
Donald M. Mattox,1998-12-31 This book covers all aspects of physical vapor deposition PVD process technology from the characterizing and preparing the substrate material through deposition processing and film characterization to post deposition processing The emphasis of the book is on the aspects of the process flow that are critical to economical deposition of films that can meet the required performance specifications The book covers subjects seldom treated in the literature substrate characterization adhesion cleaning and the processing The book also covers the widely discussed subjects of vacuum technology and the fundamentals of individual deposition processes However the author uniquely relates these topics to the practical issues that arise in PVD processing such as contamination control and film growth effects which are also rarely discussed in the literature In bringing these subjects together in one book the reader can understand the interrelationship between various aspects of the film deposition processing and the resulting film properties The author draws upon his long experience with developing PVD processes and troubleshooting the processes in the manufacturing environment to provide useful hints for not only avoiding problems but also for solving problems when they arise He uses actual experiences called war stories to emphasize certain points Special formatting of the text allows a reader who is already knowledgeable in the subject to scan through a section and find discussions that are of particular interest The author has tried to make the subject index as useful as possible so that the reader can rapidly go to sections of particular interest Extensive references allow the reader to pursue subjects in greater detail if desired The book is intended to be both an introduction for those who are new to the field and a valuable resource to those already in the field The discussion of transferring technology between R D and manufacturing provided in Appendix 1 will be of special interest to the manager or engineer responsible for moving a PVD product and process from R D into production Appendix 2 has an extensive listing of periodical publications and professional societies that relate to PVD processing The extensive Glossary of Terms and Acronyms provided in Appendix 3 will be of particular use to students and to those not fully conversant with the terminology of PVD processing or with the English language      **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 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 volume      **Industrial Plasma Engineering** J Reece Roth,1995-01-01 This book will provide the necessary theoretical background and a description of

plasma related devices and processes that are used industrially for physicists and engineers It is a self contained introduction to the principles of plasma engineering with comprehensive references This volume also includes the terminology jargon and acronyms used in the field of industrial plasma engineering indexed when they first appear in the text along with their definitions and a discussion of their meaning It is aimed at assisting the student in learning key terminology and concepts and providing the in service engineer or scientist with a technical glossary An extensive index and appendices enhance the value of this book as a key reference source These incorporate a list of the nomenclature used in mathematical expressions in the text physical constants and often used plasma formulae SI units are used throughout Intended for students from all engineering and physical science disciplines and as a reference source by in service engineers Coverage basic information on plasma physics and the physical processes important in industrial plasmas sources of ion and electron beams and ionizing radiation used in industrial applications physics and technology of DC and RF electrical discharges Advances in Superconductivity II Takehiko Ishiguro, Koji Kajimura, 2013-03-09 Since the First International Symposium on Superconductivity ISS 88 was held in Nagoya Japan in 1988 significant advances have been achieved in a wide range of high temperature superconductivity research Although the  $T_c$ s of recently discovered oxide superconductors still do not exceed the record high value of 125K reported before that meeting the enrichment in the variety of materials should prove useful to the investigation of the fundamental mechanism of superconductivity in these exotic materials The discovery of the n type superconducting oxides proved to oppose the previously held empirical fact that the charge carriers in all oxide superconductors were holes In addition optimization of the charge carrier density has been established as a technique to improve the superconducting properties of the previously known oxide materials Many new experimental and theoretical advances have been made in understanding both the fundamental and the applied aspects of high temperature superconductivity In this latter area various new processing techniques have been investigated and the critical current densities and other significant parameters of both bulk and thin film oxide superconductors are rapidly being improved At this exciting stage of research in high temperature superconductivity it is extremely important to provide an opportunity for researchers from industry academia government and other institutions around the world to freely exchange information and thus contribute to the further advancement of research



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