

HUASHUN ZHANG

Ion Sources



Science Press



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Handbook Of Ion Sources Hardback

Shasha Hu



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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 *Electric Generators Handbook - Two Volume Set* Ion Boldea, 2018-10-08 Electric Generators Handbook Second Edition Two Volume Set supplies state of the art tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow s complex energy needs The first volume Synchronous Generators explores large and medium power synchronous generator topologies steady state modeling transients control design and testing Numerous case studies worked out examples sample results and illustrations highlight the concepts Fully revised and updated to reflect the last decade s worth of progress in the field the Second Edition adds coverage of high power wind generators with fewer or no PMs PM assisted DC excited salient pole synchronous generators autonomous synchronous generators control line switching parameter identification for isolated grids synthetic back to back load testing with inverter supply and more The second volume Variable Speed Generators provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world Numerous design and control examples illustrate the exposition Fully revised and updated to reflect the last decade s worth of progress in the field the Second Edition adds material on doubly fed induction generator control under unbalanced voltage sags and nonlinear loads interior permanent magnet claw pole alternator systems high power factor Vernier PM generators PM assisted reluctance synchronous motors generators for electric hybrid vehicles and more *Linear Electric Machines, Drives, and MAGLEVs*

Handbook Ion Boldea, 2017-12-19 Based on author Ion Boldea's 40 years of experience and the latest research Linear Electric Machines Drives and Maglevs Handbook provides a practical and comprehensive resource on the steady improvement in this field The book presents in depth reviews of basic concepts and detailed explorations of complex subjects including classifications and practical topologies with sample results based on an up to date survey of the field Packed with case studies this state of the art handbook covers topics such as modeling steady state and transients as well as control design and testing of linear machines and drives It includes discussion of types and applications from small compressors for refrigerators to MAGLEV transportation of linear electric machines Additional topics include low and high speed linear induction or synchronous motors with and without PMs with progressive or oscillatory linear motion from topologies through modeling design dynamics and control With a breadth and depth of coverage not found in currently available references this book includes formulas and methods that make it an authoritative and comprehensive resource for use in R D and testing of innovative solutions to new industrial challenges in linear electric motion energy automatic control *Handbook of*

Acid-Base Indicators R. W. Sabnis, 2007-10-04 While acid base indicators continue to find new applications in an ever widening range of scientific disciplines there is no current book that focuses entirely on the subject nor one that brings together the relevant advances that have evolved over the last three decades The Handbook of Acid Base Indicators compiles the most up to date c Maxwell's Handbook for AACR2 Robert L. Maxwell, 2004-05-24 For application of the most current

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Ion Sources Huashun Zhang, 1999-11-08 While dealing with the design and operation of ion sources this book additionally discusses the physics of ion formation of the various elements with different charge states and charge neutralization Ion selection and beam diagnostics are equally included and the presentation of the necessary equations and

diagrams for the various parameters makes this a useful handbook for ion sources *Foreign Sources on the Romanians*
 Arhivele Statului (Romania),1980 **The Development and Management of Ambulatory Care Programs** ,
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
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