

Handbook Of Ion Sources Hardback

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The Publisher Ian G. Brown Viacheslav V. Zhurin Rand Corporation Bernhard Wolf Hillel Hoffman Claudio Bruno

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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

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

includes publications previously listed in the supplements to the index of selected publications of the rand corporation oct 1962 feb 1963

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

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