

Handbook Of Ion Sources Hardback

The Physics and Technology of Ion Sources Industrial Ion Sources Handbook of Ion Sources Fundamental QSARs for Metal Ions Iontronics Phase Equilibria in Ionic Liquid Facilitated Liquid-Liquid Extractions CERN Courier Journal of the Chemical Society Ion Sources Selected Rand Abstracts Prisoners' Rights Atomic Spectroscopy Electrochemically Enabled Sustainability Surfactant Science and Technology Neurobiology of TRP Channels Atomic and Ionic Spectrum Lines Below 2000 Angstroms The American Neptune Ion Sources Mass Spectrometry Bulletin Fusion Nucléaire Ian G. Brown Viacheslav V. Zhurin Bernhard Wolf John D. Walker Janelle Leger Anand Bharti Huashun Zhang Rand Corporation Hillel Hoffman Kwong-Yu Chan Laurence S. Romsted Tamara Luti Rosenbaum Emir Raymond L. Kelly J. R. Holland

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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

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

fundamental qsars for metal ions describes the basic and essential applications of quantitative structure activity relationships qsars for regulatory or industrial scientists who need to predict metal ion bioactivity it includes 194 qsars that have been used to predict metal ion toxicity and 86 qsars that have been used to predict metal ion bioconcentration biosorption and binding it is an excellent sourcebook for academic industrial and government scientists and policy makers and provides a wealth of information on the biological and chemical activities of metal ions as they impact health and the environment fundamental qsars for metal ions was designed for regulatory and regulated organizations that need to use qsars to predict metal ion bioactivity as they now do for organic chemicals it has the potential to eliminate resources to test the toxicity of metal ions or to promulgate regulations that require toxicity testing of metal ions because the book illustrates how to construct qsars to predict metal ion toxicity in addition the book provides a historical perspective and introduction to developing qsars for metal ions

explains the electronic structures and atomic parameters of metals essential to understanding differences in chemical properties that influence cation toxicity bioconcentration biosorption and binding describes the chemical properties of metals that are used to develop qsars for metal ions illustrates the descriptors needed to develop metal ion ligand binding qsars discusses 280 qsars for metal ions explains the differences between qsars for metal ions and biotic ligand models lists the regulatory limits of metals and provides examples of regulatory applications illustrates how to construct qsars for metal ions dr john d walker is the winner of the 2013 setac government service award

with contributions from a community of experts the book focuses on the use of ionic functions to define the principle of operation in polymer devices it begins by reviewing the scientific understanding and important scientific discoveries made on the electrochemistry of conjugated polymers it examines the known effects of ion incorporation including the theory and modulation of electrochemistry in polymer films and it explores the coupling of electronic and ionic transport in polymer films

this book provides a comprehensive overview of ionic liquid based separation techniques the glimpse of thermodynamic predictive models along with global optimization techniques will help readers understand the separation techniques at molecular and macroscopic levels experimental and characterization techniques are coupled with model based predictions so as to provide multicomponent data for the scientific community the models will focus more on the a priori based predictions which gives higher emphasis on hydrogen bonded systems particle swarm optimization pso technique will also eventually help the readers to apply optimization technique to an extraction process the overriding goal of this work is to provide pathways for leading engineers and researchers toward a clear understanding and firm grasp of the phase equilibria of ionic liquid systems

ion implantation has become a basic technology in device manufacturing for efficient use of this accelerator based technique the choice of appropriate ion sources is important this book deals with the design and operation of ion sources additionally the physics of ion formation of the various elements with different charge states and charge neutralization are discussed ion selection and beam diagnostics are part of the book too the presentation of the necessary equations and diagrams for the various parameters makes this book useful as a handbook for ion sources

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

with contributions from leading researchers in their fields this book provides an overview of the most important

electrochemical power sources in development today focusing on materials design and performance the text presents the most recent and innovative technologies employed in battery and fuel cell technologies topics include acid alkaline batteries microbial fuel cells lithium batteries lead acid batteries ultracapacitors vanadium flow batteries and carbon dioxide electroreduction the book discusses the advantages of these cells over conventional methodologies and their future applications

surfactant research explores the forces responsible for surfactant assembly and the critical industrial medical and personal applications including viscosity control microelectronics drug stabilization drug delivery cosmetics enhanced oil recovery and foods surfactant science and technology retrospects and prospects a festschrift in honor of dr kash mittal provides a broad perspective with chapters contributed by leaders in the fields of surfactant based physical organic and materials chemistries many of the authors participated in a special symposium in melbourne australia honoring kash mittal s 100th edited book at the 18th surfactants in solution sis meeting each chapter provides an overview of a specific research area with discussions on past present and future directions the book is divided into six parts part i reviews the evolution of theoretical models for surfactant self assembly and introduces a model for interpreting ion specific effects on aggregate properties part ii focuses on interactions of surfactant solutions with solid supports uses contact angles to understand hydrophobic hydrophilic changes in a lipid layer uses surface tension to understand molecular arrangements at interfaces reviews spreading phenomena discusses pattern formation on solid surfaces and applies tensiometry to probe flavor components of espresso part iii discusses novel dna based materials multifunctional poly amino acid s based graft polymers for drug delivery and polymeric surfactants for stabilizing suspensions and emulsions part iv introduces farm based biosurfactants from natural products and greener biosurfactants from bacteria part v explores lyotropic liquid crystals and their applications in triggered drug release microemulsion properties and controlled drug release the role of hydrotopes in formulations and in enhancing solubilization in liquid crystals the potential of ionic liquids to generate tunable and selective reaction media and provides an overview of stimuli responsive surfactants focusing on emulsions part vi reviews the design of emulsion properties for various commercial applications the role of surfactants in the oil and gas industries and surfactant mechanisms for soil removal via microemulsions and emulsification

during the last two decades there has been an explosion of research pertaining to the molecular mechanisms that allow for organisms to detect different stimuli that is an essential feature for their survival among these mechanisms living beings need to be able to respond to different temperatures as well as chemical and physical stimuli thermally activated ion channels were

proposed to be present in sensory neurons in the 1980s but it was not until 1997 that a heat and capsaicin activated ion channel trpv1 was cloned and its function described in detail this groundbreaking discovery led to the identification and characterization of several more proteins of the family of transient receptor potential trp ion channels intensive research has provided us with the atomic structures of some of these proteins as well as understanding of their physiological roles both in normal and pathological conditions with chapters contributed by renowned experts in the field neurobiology of trp channels contains a state of the art overview of our knowledge of trp channels ranging from structure to their functions in organismal physiology features contains chapters on the roles of several trp ion channels with a diversity of physiological functions providing a complete picture of the widespread importance of these proteins presents an overview of the structure of trp channels including the roles of these proteins in different physiological processes discusses the roles of trp channels in pathophysiological processes further highlighting their importance features several full color illustrations to allow the reader better comprehension of trp channels a volume in the frontiers in neuroscience series

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