Modern Methods for the Separation of Rarer Metal Ions

Korkisch, Johann

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Jens-Volker Kratz, Karl Heinrich Lieser

Modern Methods For The Separation Of Rarer Metal Ions:

Modern Methods for the Separation of Rarer Metal Ions Johann Korkisch, 2013-10-22 Modern Methods for the Separation of Rarer Metal Ions describes several separation methods of more than 50 elements This book is divided into 19 chapters that include separation methods involving the actinide elements rare earths and many rarer elements of the main and transition groups of the periodic table The introductory chapter discusses the principles of the separation techniques presented in this book The remaining chapters explore the application of specific separation methods such as ion exchange chromatography liquid liquid extraction distillation and coprecipitation The approach of each chapter is a presentation of separation principle of an element first followed by numerous examples of applications to the solution of practical problems encountered in separation chemistry Chapters 2 and 3 examine the separations involving the actinides and rare earth elements using ion exchange and liquid liquid extraction These are followed by chapters dealing with separations of other rarer elements which have been arranged according to their position in the periodic table These elements are Li Rb Cs Fr Be Ra Ga In Tl Ge Ag Au Ti Zr Hf V Nb Ta Mo W Tc Re and the platinum metals This book will be of great use to analytical Modern Methods for the Separation of Rarer Metal Ions Johann Korkisch, 1968 chemists Catalog of Copyright **Entries. Third Series** Library of Congress. Copyright Office, 1972 The Chemistry of Chlorine, Bromine, Iodine and Astatine A. J. Downs, C. J. Adams, 2017-05-04 The Chemistry of Chlorine Bromine Iodine and Astatine is a special edition that contains selected sections and addresses the needs of specialists in their respective fields. The text describes the general atomic properties of non metals particularly the halogens as being the perfect series to study both in physical and chemical terms The book explains that the combination of the atomic properties implies excellent electronegativity values for the halogen atoms The text also cites some behavior characteristics of halogens that are irregular such as chlorine and bromine are similar but differ from fluorine on one side and iodine on the other The book also compares the general methods of producing chlorine bromine or iodine by 1 oxidation of halide derivatives or 2 reduction of compounds of the halogens in positive oxidation states The text then reviews the application of a complex valence theory that raises difficult questions about the bonding in halogen oxygen molecules The book also explains the biological behavior of astatine that accumulates in the liver or in the thyroid gland depending on the method of administration either as a radiocolloid or as a true solution The book is suitable for molecular biologists and researchers molecular chemists and medical researchers **Basic Concepts Of Analytical Chemistry** S M Khopkar,1998 Analytical Chemistry Has Made Significant Progress In The Last Two Decades Several Methods Have Come To The Forefront While Some Classical Methods Have Been Relegated An Attempt Has Been Made In This Edition To Strike A Balance Between These Two Extremes By Retaining Most Significant Methods And Incorporating Some Novel Techniques Thus An Endeavour Has Been Made To Make This Book Up To Date With Recent Methods The First Part Of This Book Covers The Classical Volumetric As Well As Gravimetric Methods Of Analysis The

Separation Methods Are Prerequisite For Dependable Quantitative Methods Of Analysis Therefore Not Only Solvent Extraction Separations But Also Chromatographic Methods Such As Adsorption Partition Ion Exchange Exclusion Andelectro Chromatography Have Been Included To Keep Pace With Modern Developments The Newly Discovered Techniques Such As Ion Chromatography Super Critical Fluid Chromatography And Capillary Electrophoresis Have Been Included The Next Part Of The Book Encompases The Well Known Spectroscopic Methods Such As Uv Visible Ir Nmr And Esr Techniques And Also Atomic Absorption And Plasma Spectroscopy And Molecular Luminescences Methods Novel Analytical Techniques Such As Auger Esca And Photo Accoustic Spectroscopy Of Surfaces Are Also Included The Final Part Of This Book Covers Thermal And Radioanalytical Methods Of Analysis The Concluding Chapters On Electroanalytical Techniques Include Potientometry Conductometry Coulometry And Voltametry Inclusive Of All Kinds Of A Polarography The Theme Of On Line Analysis Is Covered In Automated Methods Of Analysis To Sustain The Interest Of The Reader Each Chapter Is Provided With Latest References To The Monographs In The Field Further To Test The Comprehension Of The Subject Each Chapter Is Provided With Large Number Of Solved And Unsolved Problems This Book Should Be Useful To Those Reads Who Have Requisite Knowledge In Chemistry And Are Majoring In Analytical Chemistry It Is Also Useful To Practising Chemists Whose Sole Aim Is To Keep Abreast With Modern Developments In The Field CRC Handbook of Ion Exchange Resins Johann Korkisch, 1988-12-31 The six volume CRC Handbook of Ion Exchange Resins reviews the application of ion exchange resins to inorganic analytical chemistry Extracted from over 6 000 original publications it presents the information in over 1 000 tables complemented by concise descriptions of analytical methods involving virtually all the elements of the periodic table Also the ion exchange characteristics of the elements as well as other important information required by analysis using ion exchange resins are presented in separate tables The methods that allow the multi element analysis of complex matrices are emphasized This work includes a general discussion of the theoretical instrumental and other principles underlying the various applications of ion exchange resins in inorganic analytical chemistry with special attention focused on techniques based on ion chromatography **Extraction Chromatography**, 1975-06-01 Extraction Chromatography Handbook of Separation Process Technology Ronald W. Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them The Journal of Analytical Chemistry of **the USSR.** ,1974 Nuclear Science Abstracts ,1976 **The Cumulative Book Index**, 1969 A world list of books in the English language **Ion Chromatography** James S. Fritz, Douglas T. Gjerde, 2008-07-11 Reflecting the tremendous

development of ion chromatography in recent years the best selling book by Fritz and Gjerde has now gone into a third edition This is essentially a new book describing materials principles and methods of ion chromatography in a clear and concise style The book can be used both as an introduction for the new comer and as a practical guide for method development and applications for the experienced user It contains handy tables with useful data e.g. on detection and elution conditions With this new edition the scope has been enlarged to include capillary electrophoresis as well as chemical speciation The readers of this book will profit from the authors background and experience both in education and industrial Concise Polymeric Materials Encyclopedia Joseph C. Salamone, 1998-08-28 Concise Polymeric Materials application Encyclopedia culls the most used widely applicable articles from the Polymeric Materials Encyclopedia more than 1 100 and presents them to you in a condensed well ordered format Featuring contributions from more than 1 800 scientists from all over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers This comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field Radiochemistry, 2 Volume Set Jens-Volker Kratz, Karl Heinrich Lieser, 2013-12-04 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences. The result is a valuable resource for both newcomers as well as established scientists in the field **Nuclear and Radiochemistry** Karl Heinrich Lieser, 2008-09-26 This handbook gives a complete and concise description of the up to date knowledge of nuclear and radiochemsitry and applications in the various fields of science I is based on teaching courses and on research for over 40 years The book is addressed to any researcher whishing sound knowledge about the properties of matter be it a chemist a physicist a medical doctor a mineralogist or a biologist They will all find it a valuable source of information about the principles and applications of nuclear and radiochemistry Research in radiochemistry includes Study of radioactice matter in nature investigation of radioactive transmutations by chemical methods chemistry of radioelements etc Applications include Radionuclides in geo and cosmochemistry dating by nuclear methods radioanalysis M ssbaur spectroscopy and related methods behaviour of natural and man made radionuclides in the environment dosimetry and radiation protection All subjects are presented clearly and comprehensibly and in logical sequence Detailed derivations of equations are avoided and relevant information is compiled in tables The recent edition of the multi coloured Karlsruhe Chart of the Nuclides is included Clearly a standard work by an author with extensive experience in research and teaching Nuclear and

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