Record Nr. UNINA9910780026303321 Ion exchange / / edited by Dimitri Muraviev, Vladimir Gorshkov, **Titolo** Abraham Warshawsky Pubbl/distr/stampa New York:,: M. Dekker,, 2000 **ISBN** 0-429-20803-0 1-135-55281-9 1-280-20848-1 9786610208487 0-203-90834-1 0-8247-4545-0 Descrizione fisica 1 online resource (918 p.) Collana Highlights of Russian science;; 1 Altri autori (Persone) MuravievDimitri <1948-> GorshkovV. I WarshawskyAbraham Disciplina 541.3/723 Soggetti Ion exchange Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali The contents of this volume were originally published in Solvent extraction and ion exchange, volume 16, no. 1, 1998, and volume 17, no. 4, 1999--T.p. verso. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto FOREWORD; PREFACE; CONTENTS; ION-EXCHANGE METHODS FOR ULTRA PURIFICATION OF INORGANIC, ORGANIC AND BIOLOGICAL SUBSTANCES; OPTIMIZATION OF SORPTION PURIFICATION OF INDUSTRIAL EFFLUENTS, WASTE WATERS AND TECHNOLOGICAL SOLUTIONS FROM POLYVALENT METAL IONS; ION-EXCHANGE ISOTHERMAL SUPERSATURATION; CLATHRATE-FORMING ION EXCHANGERS; COMPLEXATION IN ION EXCHANGER PHASE. PROPERTIES AND APPLICATION OF ION EXCHANGER COMPLEXES; DIFFUSIONAL MODEL FOR INTRAPARTICLE ION EXCHANGE KINETICS IN NONLINEAR SELECTIVE SYSTEMS; SURFACE IMPREGNATED SULFONATE ION EXCHANGERS: PREPARATION, PROPERTIES AND APPLICATION REAGENT-FREE ION-EXCHANGE SEPARATIONSDUAL-TEMPERATURE ION EXCHANGE FRACTIONATION; INTERIONIC AND INTERMOLECULAR INTERACTIONS IN ION-EXCHANGE AND SORPTION SYSTEMS INVOLVING

## Sommario/riassunto

PHYSIOLOGICALLY ACTIVE SUBSTANCES; KINETICS AND DYNAMICS OF REDOX SORPTION; GENERALIZED THERMODYNAMIC THEORY OF ION-EXCHANGE ISOTHERM; ELECTROCHEMICAL AND TWIN CHEMICAL POTENTIALS AS THERMODYNAMIC DRIVING FORCES; INDEX

This text presents a review of ion exchange science conducted in the countries of the former Soviet Union. The text progresses from theoretical fundamentals to practical applications in manufacturing, mineral refining, environmental clean-up and advances in ion exchange systems.