



ELSEVIER

Journal of Chromatography A, 793 (1998) 427

---

---

JOURNAL OF  
CHROMATOGRAPHY A

---

---

---

## Book review

---

*Ion Exchange and Solvent Extraction*, edited by Jacob A. Marinsky and Yizhak Marcus, Marcel Dekker, New York, Basel, Hong Kong, Vol. 13, 1997, xiv+398 pp., price US\$ 195.00, ISBN 0-8247-9825-2

This is the 13th in a successful series of books on ion exchange and solvent extraction. It is edited by two well-known experts and each chapter is by different authors writing about their particular specialty. The overall quality of the book is excellent. The book should appeal especially to those interested in newer developments in solvent extraction on an industrial scale.

The book begins with an interesting and detailed chapter on extraction of salts by mixed liquid ion exchangers (Schmuckler, Harel). Principles and theory are clearly covered with pertinent examples. Chapter 2 (Eyal) deals with acid extraction by acid-

base coupled extraction. Several promising industrial applications are described. Chapter 3 (Pletnev, Zolotov) on host-guest deals primarily with macrocyclic complexers for extraction amines, urea, amino acids and sugars. New technologies for metal ion separations with polyethyleneglycol-aqueous biphasic systems are described in Chapter 4 (Rogers, Zhang). Chapter 5 (Cortina, Warshawsky) updates developments in solvent-impregnated resins for extraction. This is particularly attractive in that it allows solvent extraction either in packed columns or in a batch extraction mode. This chapter includes 195 references. The book concludes with a chapter on the principles of solvent extraction of alkali metal ions (Moyer, Sun). This is a very timely subject because of the continued interest in finding better ways to isolate  $^{137}\text{Cs}$  from radioactive waste.

Ames, IA, USA

James S. Fritz