

This article was downloaded by:

On: 23 January 2011

Access details: *Access Details: Free Access*

Publisher *Taylor & Francis*

Informa Ltd Registered in England and Wales Registered Number: 1072954 Registered office: Mortimer House, 37-41 Mortimer Street, London W1T 3JH, UK



Journal of Liquid Chromatography & Related Technologies

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713597273>

THE BOOK CORNER

Online publication date: 11 December 2009

To cite this Article (2010) 'THE BOOK CORNER', Journal of Liquid Chromatography & Related Technologies, 33: 1, 150 – 151

To link to this Article: DOI: 10.1080/10826070903430530

URL: <http://dx.doi.org/10.1080/10826070903430530>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.informaworld.com/terms-and-conditions-of-access.pdf>

This article may be used for research, teaching and private study purposes. Any substantial or systematic reproduction, re-distribution, re-selling, loan or sub-licensing, systematic supply or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae and drug doses should be independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

THE BOOK CORNER

Ion Exchange and Solvent Extraction, A Series of Advances **Bruce A. Moyer Ed., CRC Press, Boca Raton, Florida, 2009.**

This book contains 11 chapters, for a total of 659 pages, dealing with various aspects of materials extractions prior to their analysis. The book is well illustrated with charts and figures. References are up to date. This volume provides a comprehensive look at recent advances in solvent extraction and its role as a separation technique; it includes discussions of the cause and nature of the third phase formation, the overall state of solvent extraction in reprocessing, new molecules for increased selectivity, methods for predicting extraction properties, the effects of radiation on the solvent and its performance, and new chemistry using novel media to mention just a few.

The focus of the current volume, as the Table of Contents indicates, is toward those in the nuclear industry.

TABLE OF CONTENTS

Chapter 1.	Overview of solvent extraction chemistry for reprocessing	1
Chapter 2.	New developments in thorium, uranium and plutonium extraction	65
Chapter 3.	Overview of recent advances in An(III)/Ln(III) separation by solvent extraction	119
Chapter 4.	Extraction of radioactive elements by calixarenes	195
Chapter 5.	Quantitative structure-property relationships in solvent extraction and complexation of metals	319
Chapter 6.	Simultaneous removal of radionuclides by extractant mixtures	359
Chapter 7.	Third phase formation in liquid/ligand extraction: a colloidal approach	381
Chapter 8.	Radiolysis of solvents used in nuclear fuel reprocessing	429
Chapter 9.	Automation of extraction chromatographic and ion exchange separation for radiochemical analysis and monitoring	515

Chapter 10. Design principles and applications of centrifugal contactors for solvent extraction 563

Chapter 11. Neoteric solvents as the basis of alternative approaches to the separation of actinides and fission products 617