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Volume 17 in the Ion Exchange and Solvent Extraction series represents the vanguard of research on solvent extraction. It covers the principles of electrolyte extraction and other subjects of increasing interest to the field. This volume begins with pharmaceutical applications of supercritical fluid solvents, particularly supercritical carbon dioxide. It also contains chapters on liquid ion exchangers and relevant experiment protocols, SCF applications in drug formulation and pollution reduction, exploiting SCF as reaction media, applications of metal bis(dicarbollide) in analytical chemistry and radioactive waste treatment, and synergistic extraction of metal ions.

Volume 17 discusses the ion exchange isothermal supersaturation technique, metal separation via pH-induced parametric pumping, modeling of ion exchange kinetics for ultrapure water, and the engineering of activated carbons and carbonaceous materials for removal of metal ions and organic micropollutants in water. Volume 17 cover topics that include supercritical fluid applications, applications of metal bis(dicarbollide), and synergistic extraction of metal ions.

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Ion Exchange and Solvent Extraction: A Series of Advances, Volume 17 (Ion Exchange and Solvent Extraction Series) From CRC Press Bibliography

- Sales Rank: #11008424 in Books
- Published on: 2004-07-23
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 6.00" w x 1.00" l, 1.55 pounds
- Binding: Hardcover
- 416 pages

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Editorial Review

Review

"A reader need not be involved solely with solvent extraction to gain important information from this book; due to the variety of complexants discussed in the different chapters, it should also be of interest to scientists whose research encompasses coordination chemistry. It is a pleasure to recommend this volume to colleagues interested in coordination chemistry and both the chemical and engineering aspects of separations science." - JACS

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