

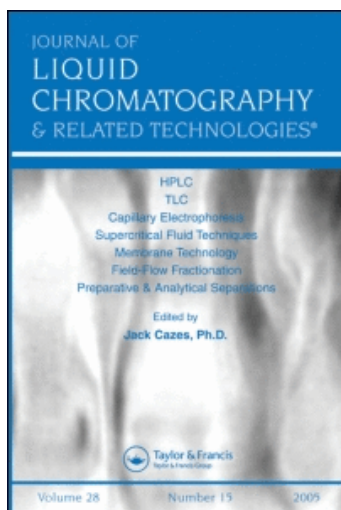
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### The Book Corner

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## THE BOOK CORNER

**CHROMATOGRAPHIC ANALYSIS OF PHARMACEUTICALS**, John A. Adamovics, Editor, Volume 49, Chromatographic Science Series, Marcel Dekker, Inc., New York, 1990. Price - \$125.00 (USA and Canada), \$150.00 (all other countries).

Chromatographic Analysis of Pharmaceuticals examines numerous chromatographic methods used in the pharmaceutical industry for the measurement of drugs, impurities, and excipients in pharmaceutical preparations, such as tablets, ointments, and injectables. The book is divided into four main parts: Part I contains an overview of the various regulatory stages of a drug candidate. The determination of valid chromatographic methods is also discussed. Part II is devoted to sample handling procedures. In Part III, chapters are devoted to thin-layer chromatographic, gas chromatographic, and high-performance liquid chromatographic technology and their respective approaches to methods development. The chapter on headspace analysis gives an alternative approach to the assay of pharmaceuticals. Part IV is a comprehensive tabulation of chromatographic methods used in the analysis of drugs. A 318 page table listing the chromatographic data of over 1,300 drugs and related substances, including the sample matrix analyzed, sample handling procedure, column packings, mobile phase, mode of detection, and more, is given. A detailed listing of the contents follows:

Preface, (p. iii)

Contributors, (p. ix)

### Part I Regulatory Considerations

1. Regulatory Considerations for the Chromatographer, John A. Adamovics, (p. 3).

### Part II Sample Treatment

2. Sample Pretreatment, John A. Adamovics, (p. 27).
3. Robotics in the Pharmaceutical Laboratory, M.L. Robinson, (p. 61).

### Part III Chromatography

4. Thin-Layer Chromatography, John A. Adamovics, (p. 85).
5. Gas Chromatography, Douglas Both, (p. 107).

6. **Headspace Analysis of Pharmaceuticals**, Robert L. Barnes, (p. 149).
  7. **High-Performance Liquid Chromatography**, John A. Adamovics, (p. 167).
- Part IV Applications**, (p. 225).
- Index**, (p. 627)
- 

**PACKINGS AND STATIONARY PHASES IN CHROMATOGRAPHIC TECHNIQUES**, Klaus K. Unger, Editor, Volume 47, Chromatographic Science Series, Marcell Dekker, Inc., New York. Price - \$150.00 (USA and Canada), \$180.00 (all other countries).

This book is an excellent reference which provides a comprehensive review on packings and stationary phases in chromatography. The major part deals with the manufacture, structural properties and chromatographic behavior and use of stationary phases in gas, thin layer and column liquid chromatography. The book provides valuable information that will enable the user to choose, handle and evaluate stationary phases for a given separation problem. This book is of value to chemists in different disciplines. The editor, who is well known in this area, has assembled a highly professional group to author a first class reference. The contents of the book and authors are given below:

**Preface**, (p. iii)

**Contributors**, (p. vii)

1. **Historical Review**, Ursula Wintermeyer, (p. 1).
2. **Survey of Types of Chromatographic Packings and Stationary Phases and Their Role in Separation Processes**, Klaus K. Unger, (p. 43).
3. **Solid and Liquid Stationary Phases in Gas Chromatography**, Jürgen Pörschmann and W. Engewald, (p. 87).
4. **Supports and Stationary Phases in Liquid-Liquid Partition Chromatography**, Klaus K. Unger, (p. 235).
5. **Sorbents and Precoated Layers in Thin-Layer Chromatography**, H.E. Hauck and Willi Jost, (p. 251).
6. **Adsorbents in Column Liquid Chromatography**, Klaus K. Unger, (p. 331).
7. **Packings in Size Exclusion Chromatography**, J.V. Dawkins, (p. 471).
8. **Packings in Donor-Acceptor Complex Chromatography**, Helfried Hemetsberger, (p. 511).
9. **Packings in Ligand Exchange Chromatography**, V.A. Davankov, (p. 541).
10. **Ion Exchangers**, Donald J. Pietrzyk, (p. 585).
11. **Packings and Stationary Phases for Ion Pair Chromatography**, B.A. Persson and Per-Olof Lagerström, (p. 721).

12. **Packings in Affinity Chromatography**, Jan-Christer Janson and Tore Kristiansen, (p. 747).
  13. **Theory and Design of Chiral Stationary Phases for the Direct Chromatographic Separation of Enantiomers**, William H. Pirkle and Thomas C. Pochapsky, (p. 783).
- Index, (p. 815)
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**DOWNSTREAM PROCESSING AND BIOSEPARATION. RECOVERY AND PURIFICATION OF BIOLOGICAL PRODUCTS**, J.-F. P. Hammel, J. B. Hunter, S. K. Sikdar, eds, ACS Symposium Series No. 419, American Chemical Society, Washington, 1990. Price, US\$69.95, 311 pp.

This new volume was developed from a symposium sponsored by the Division of Industrial and Engineering Chemistry, Inc. at the 3rd Chemical Congress of North America (159th National Meeting of the American Chemical Society, Toronto, Ontario, Canada, June 5-11, 1988). It examines the state of the art of several important separation processes as they relate to biotechnology. Focusing on isolation and purification in downstream processing, it presents recent research results of several promising techniques. Its 15 chapters cover extraction and membrane processing, processes using biospecific interaction with proteins and novel isolation and purification processes.

Many of the chapters contain significant amounts of data that have never been published before. **Downstream Processing and Bioseparation** presents the spectrum of current thinking and activities on bioseparation, specifically of large molecules such as proteins and polysaccharides.

#### Contents

Modeling and Applications of Downstream Processing: A Survey of Innovative Strategies.

Statistical Thermodynamics of Aqueous Two-Phase Systems.

Theoretical Treatment of Aqueous Two-Phase Extraction by Using Virial Expansions: A Preliminary Report.

A Low-Cost Aqueous Two-Phase System for Affinity Extraction.

Separation of Proteins by Using Reversed Micelles.

Enzymes in Liquid Membranes: Reaction and Bioseparation.

Pilot-Scale Membrane Filtration Process For The Recovery of An Extracellular Bacterial Protease.

Removal and Inactivation of Viruses By A Surface-Bonded Quaternary Ammonium Chloride.

Complexation Between Poly-dimethyldiallylammonium chloride) and Globular Proteins.

Protein Precipitation and Fractionation By Precipitation With Carboxymethyl Cellulose.

Protein Separation Via Affinity-Mediated Membrane Transport.

Affinity Precipitation of Avidin By Using Ligand-Modified Surfactants.

Ultracentrifugation as a Means for the Separation and Identification of Lipopolysaccharides.

Mathematical Model of a Rotating Annular Continuous Size Exclusion Chromatograph.

The Continuous Rotating Annular Electrophoresis Column: A Novel Approach to Large-Scale Electrophoresis.