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### The Book Corner

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## THE BOOK CORNER

**TRACE ANALYSIS WITH MICROCOLUMN LIQUID CHROMATOGRAPHY**, M. Krejci, Chromatographic Science Series, Volume 59, J. Cazes, ed., Marcel Dekker, Inc., New York, 224 Pages, 1992. Price: \$110.00 (USA)

This book provides an overview of the field of microcolumn liquid chromatography - exploring new possibilities for using trace analysis in biochemistry, pharmacology, and many other areas of science.

Offering a variety of practical examples and analytical applications, "Trace Analysis with Microcolumn Liquid Chromatography" stresses the role of extracolumn spaces and reasons for column instability; describes the theoretical basis of analytical and microcolumn procedures as well as trace analysis of very-low-mass and very-low-solute concentrations; derives the optimal column parameters of packed microbore and open tubular column liquid chromatography; details instrumentation, column preparation, and the demands on detectors and sampling devices of the solute in microbore column liquid chromatography; reviews combinations of liquid chromatography with mass spectrometry and infrared spectrometry Fourier's transformation; examines phenomena specific to the use of small-bore columns and phenomena that affect the quantitative results in general.

The book is an important and timely volume for analytical and organic chemists, biochemists, chromatographers, pharmacists, pharmacologists, and graduate-level students in these disciplines.

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1. **Trace Analysis**, (1).
2. **Miniaturization**, (8).
3. **Microcolumns**, (26).
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**MODERN CHROMATOGRAPHIC ANALYSIS OF VITAMINS**, Second Edition, Edited by A. P. Deleenheer, W. E. Lambert, and H. J. Nelis, Chromatographic Science Series, Volume 60, J. Cazes, ed., Marcel Dekker, Inc., New York, 592 pages, 1992. Price: \$175.00 (USA)

The first edition of "Modern Chromatographic Analysis of the Vitamins" was published in 1985. The past years have witnessed an enormous proliferation of chromatographic procedures for the determination of vitamins in diverse matrices.

This second edition constitutes an update of the state of the art of vitamin analysis and highlights the new important chromatographic trends in this area.

The first part covers the fat-soluble vitamins A, D, E, and K; the second part covers the water-soluble vitamins and coenzyme forms of ascorbate, folate, nicotinate, thiamine, flavins, pyridoxin, cyanocobalamin, biotin, and pantothenate. This new edition contains one additional chapter on pantothenic acid. New authors were chosen for eight of the remaining twelve chapters.

Again, detailed information is given on quantitative analysis for each vitamin or vitamin group. In addition, the information on metabolism and biochemical function of each vitamin is updated.

The book is designed primarily for those who have an acquaintance with the different chromatographic techniques (e.g., GC, GC-MS, HPLC, and TLC). However, useful information for a beginner in this field is also included or referred to.

The book is well written and includes useful figures and illustrations as well as up to date references.

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