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### The Book Corner

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## THE BOOK CORNER

**PLANAR CHROMATOGRAPHY IN THE LIFE SCIENCES**, Joseph C. Touchstone, Editor, Volume 108 in the Chemical Analysis Series, John Wiley and Sons, Inc., New York, 1990. Price - \$59.95.

The book is divided into fourteen chapters dealing mainly with TLC and HPTLC. The title of the book is misleading, and should have been TLC and HPTLC in the life sciences. The Table of Contents and authors are given below.

### Contents:

1. **Currents in Planar Chromatography**, Joseph C. Touchstone, (p. 1).
2. **Rapid Detection and Quantitation of Lipids on Thin-Layer Chromatography by Nile Red Fluorescence**, Stanley D. Fowler, (p. 7).
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4. **Analysis of Butyric Acid in a Model System**, Elaine Heilweil, Edward T. Butts, Fiona M. Clark, and Warren E. Schwartz, (p. 49).
5. **TLC-Immunostaining of Glycolipids**, Megumi Saito and Robert K. Yu, (p. 59).
6. **TLC in Pharmaceutical Research**, Nelu Grinberg, John A. Bairo, Gary Bicker, Patricia Tway, and Dean Ellison, (p. 69).
7. **Enantiomeric Separation by Thin-Layer Chromatography**, Soon M. Han and Daniel W. Armstrong, (p. 81).
8. **Assay of Biphenyl Metabolites by HPTLC-Spectrodensitometry**, Sidney S. Levin, Joseph C. Touchstone, and David Y. Cooper, (p. 101).
9. **In Situ Determination of Malondialdehyde on Thin-Layer Plates by Fluorescence Spectrodensitometry**, Juan G. Alvarez, Bayard T. Storey, and Joseph C. Touchstone, (p. 111).

10. **Analysis of Ascorbic Acid by Thin-Layer Chromatography**, Joseph C. Touchstone, Tom R. Watkins, and Eric J. Levin, (p. 119).
  11. **One- and Two-Dimensional Scanning for  $^{32}\text{P}$  and Other Uncommon Tags**, Edward Rapkin, (p. 127).
  12. **Bioanalytical Application of Thin-Layer Chromatography/Fourier Transform Infrared Spectrometry**, James A. Herman and Kenneth H. Shafer, (p. 157).
  13. **Detection of Radioactivity Distribution with Position-Sensitive Detectors, Linear Analyzer, and Digital Autoradiograph**, Heinz Filthuth, (p. 167).
  14. **New Techniques in Two-Dimensional Data Processing**, Dean E. Sequera, (p. 185).
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**LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY: APPLICATIONS IN AGRICULTURAL, PHARMACEUTICAL AND ENVIRONMENTAL CHEMISTRY**, Mark A. Brown, Editor, ACS Symposium Series Volume 420, American Chemical Society, Washington, DC, 1990. Price - \$71.95.

Liquid Chromatography/Mass Spectrometry: Applications in Agricultural, Pharmaceutical, and Environmental Chemistry comprises 18 chapters that showcase the versatility of this new technique and describe the instrumentation now available or under development. The first chapter reviews the development of the method. Chapters 2-7 describe the applications of LC/MS to the analysis of agricultural chemicals and their metabolites. Chapters 8-12 demonstrate the use of LC/MS in analyzing intractable pharmaceuticals and their metabolites. Chapters 13-18 describe the impact of LC/MS on environmental analysis. A list of the topics discussed are given below:

**Preface**, (p. xi)

1. **Review of the Development of Liquid Chromatography/Mass Spectrometry**, T. Cairns and E.G. Siegmund, (p. 1).
2. **Techniques for Enhancing Structural Information from High-Performance Liquid Chromatography/Mass Spectrometry**, R. Voyksner, T. Pack, C. Smith, H. Swaisgood, and D. Chen, (p. 14).
3. **Confirmation of Pesticide Residues by Liquid Chromatography/Tandem Mass Spectrometry**, T. Cairns and E.G. Siegmund, (p. 40).
4. **Use of Solvent Adduct Ions to Confirm Structure of Selected Herbicides with Thermospray Liquid Chromatography/Mass Spectrometry**, D. Barcelo, (p. 48).
5. **Analysis of Chlorinated Herbicides by High-Performance Liquid Chromatography/Mass Spectrometry**, T.L. Jones, L.D. Betowski, and J. Yinon, (p. 62).

6. **Multiresidue Analysis of Thermally Labile Sulfonylurea Herbicides in Crops by Liquid Chromatography/Mass Spectrometry**, L.M. Shalaby and S.W. George, (p. 75).
7. **Applications of Liquid Chromatography/Negative Ion Mass Spectrometry in Studies of Herbicide Metabolism**, R.T. Solsten, H. Fujiwara, and E.W. Logusch, (p. 92).
8. **Analysis of Xenobiotic Conjugates by Thermospray Liquid Chromatography/Mass Spectrometry**, D.M. Dulik, G.Y. Kuo, M.R. Davis, and G.R. Rhodes, (p. 124).
9. **Qualitative Analysis of Pharmaceuticals by Thermospray Liquid Chromatography/Mass Spectrometry: Nemadectins and Tetracyclines**, G.B. Kenion, G.T. Carter, J. Ashraf, M.M. Seigel, and D.B. Borders, (p. 140).
10. **Quantification of Endogenous Retinoic Acid in Human Plasma by Liquid Chromatography/Mass Spectrometry**, C.A. Huselton, B.E. Fayer, W.A. Garland, and D.J. Liberato, (p. 166).
11. **Liquid Chromatography/Mass Spectrometry in Bioanalysis**, W.M.A. Niessen, U.R. Tjaden, and J. van der Greef, (p. 179).
12. **Monitoring In Vivo Cyclic Acetylation and Deacetylation of the Anticonvulsant LY201116 in Rats: Use of D<sub>3</sub>-N-acetyl LY201116 in Liquid Chromatography/Mass Spectrometry/Thermospray Mass Spectrometry**, A.P. Breau, C.J. Parli, B.D. Potts, and R.M. Goodwin, (p. 190).
13. **Analysis of Target and Nontarget Pollutants in Aqueous and Hazardous Waste Samples by Liquid Chromatography/Particle Beam Mass Spectrometry**, M.A. Brown, I.S. Kim, F.I. Sasinof, and R.D. Stephens, (p. 198).
14. **Applications of Combination Ion Source to Detect Environmentally Important Compounds**, M.L. Vestal, D.H. Winn, C.H. Vestal, and J.G. Wilkes, (p. 215).
15. **Particle Beam Liquid Chromatography/Mass Spectrometry of Phenols and Their Sulfate and Glucuronide Conjugates**, F.R. Brown and W.M. Draper, (p. 232).
16. **Mass Spectrometry of the Secondary Metabolites of Benzo[*a*]pyrene: Ionization from Liquid Matrices**, R.H. Bieri and J. Greaves, (p. 245).
17. **Anion Exchange Thermospray Tandem Mass Spectrometry of Polar Urinary Metabolites and Metabolic Conjugates**, W.M. Draper, F.R. Brown, R. Bethem, and M.J. Millie, (p. 253).
18. **Structural Studies of In Vitro Alkylation of Hemoglobin by Electrophilic Metabolites**, S. Kaur, D. Hollander, R. Haas, and A.L. Burlingame, (p. 270).

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**ADVANCES IN CHROMATOGRAPHY**, J.C. Giddings, E. Grushka, and P.R. Brown, Editors, **Biotechnological Applications and Methods (Volume 29)**, **Selectivity and Retention in Chromatography (Volume 30)**, Marcel Dekker, Inc., New York, 1989. Price - \$125.00 each (USA and Canada) and \$150.00 each (all other countries).

Again, and as usual, *Advances in Chromatography* presents us chromatographers with two excellent volumes, which as their predecessors are a valuable contribution to the chromatography literature. The articles are well written and of high scientific standard. The material is well presented and edited. They are a must in every chromatography library. Volume 29 is devoted to the study of chromatographic methods and their applications to biotechnology. Volume 30 deals with two not so easy topics, selectivity and retention. Details of the contents are given below:

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4. **Miniaturization in High-Performance Liquid Chromatography**, M. Goto, T. Takeuchi, and D. Ishii, (p. 167).
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