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THE BOOK CORNER

DETECTION-ORIENTED DERIVATIZATION TECHNIQUES IN LIQUID CHROMATOGRAPHY, Henk Lingeman and Willy J.M. Underberg, Editors, Volume 48, Chromatographic Science Series, Marcel Dekker, Inc., New York, 1990. Price - \$99.75 (USA and Canada), \$119.50 (all other countries).

This volume covers the principles, methods, kinetics, and applications of derivatization reactions in liquid chromatography. The primary aim is to provide all the information necessary to develop an analytical procedure, starting from sample pretreatment and proceeding through detection. The first four chapters of this book provide the theoretical background and practical details to aid selection of an optimum derivatization procedure to enhance the detectability of the compound(s) under investigation. Chapter 5 provides an overview of the separation of enantiomers after conversion to their respective diastereomers. Special attention is given in Chapter 6 to the use of enzymatic derivatization and, in particular, to postchromatographic enzyme immunoassay procedures to increase the selectivity of the analytical procedures. Chapters 7-10 emphasize detection-oriented derivatization procedures that can be used to enhance to detectability of a wide variety of solutes using absorbance, amperometric, and chemiluminescence or fluorescence detection. A detailed listing of the contents follows:

1. **Derivatization in Liquid Chromatography: Introduction**, Henk Lingeman and Willy J.M. Underberg, (p. 1).
2. **Derivatization Reactions and Kinetics in Liquid Chromatography**, Andrianus N. Fruijtier, Henk Lingeman, Jos H. Beijnen, and Willy J.M. Underberg, (p. 51).
3. **Sample Pretreatment Procedures**, Henk Lingeman and Ubbo R. Tjaden, (p. 85).
4. **Postchromatographic Reaction Detection**, G.J. de Jong, Udo A. Th. Brinkman, and R.W. Frei, (p. 153).
5. **Enantiomeric Derivatization**, Sándor Görög, (p. 193).
6. **Enzymatic Derivatization**, Petra C. van Krimpen and Marian A.J. van Opstal, (p. 217).
7. **Ultraviolet-Visible Derivatization**, Jan A.P. Meulendijk and Willy J.M. Underberg, (p. 247).

8. **Electrochemical Derivatization**, J.A. Lisman, Willy J.A. Underberg, and Henk Lingeman, (p. 283).
 9. **Fluorescence Derivatization**, Junichi Goto, (p. 323).
 10. **Chemiluminescence Derivatization Reactions in Liquid Chromatography**, Kazuhiro Imai, (p. 359).
- Index**, (p. 381)