**DESCRIPTION**

Chiral Chromatography Thomas E. Beesley Advanced Separation Technologies Inc., Whippany, New Jersey, USA Raymond P. W. Scott Chemistry Department, Georgetown University, Washington DC, USA and Chemistry Department, Birkbeck College, University of London, UK Analytical techniques based on separation processes, such as chromatography and electrophoresis, are finding a growing range of applications in chemical, pharmaceutical and clinical laboratories. The Wiley Separation Science Series provides the analyst in these laboratories with well-focused books covering individual techniques, so that they can be applied more efficiently and effectively to contemporary analytical problems. The different enantiomers of a drug can exhibit widely different physiological activity in degree and nature. As a result, the separation and identification of enantiomers is now a very important analytical problem and chiral chromatography is the natural technique to apply to the resolution of such mixtures. Chiral Chromatography provides the reader with a basic understanding of the nature of chromatographic separations and relates the principles specifically to the separation of enantiomers. The following information is included:

* chiral separations involving both gas and liquid chromatography

* descriptions of the apparatus used for both techniques

* detailed discussion on the retention mechanism that results in chiral selectivity

* the structure and synthesis of a wide range of chirally active stationary phases used in both gas and liquid chromatography

* preparative applications for large scale purification of enantiomers

* applications of capillary electrophoresis and capillary electrochromatography.
In addition to the above, a large number of examples of the separation of both commercially and physiologically interesting chiral mixtures are given, as is a detailed discussion on the mechanism of selectivity of each example. Thomas Beesley was founder and is the CEO for a leading manufacturer of chiral stationary phases and has published papers on TLC, HPLC and chiral separations involving cyclodextrins. He has also co-authored papers with Daniel W. Armstrong, an expert on modern cyclodextrin columns. Raymond Scott has worked in the field of separation science for over 40 years and has contributed extensively to the development of both gas and liquid chromatography publishing over 160 papers on the subjects.

ABOUT THE AUTHOR

Thomas E. Beesley Advanced Separation Technologies Inc., Whippany, New Jersey, USA Raymond P.W. Scott Chemistry Department, Georgetown University, Washington DC, USA and Chemistry Department, Birkbeck College, University of London, UK

SERIES

Separation Science Series

For additional product details, please visit https://www.wiley.com/en-us