

1. Record Nr.	UNINA9911019851903321
Autore	Cserhati Tibor
Titolo	Multivariate methods in chromatography : a practical guide // Tibor Cserhati
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : Wiley, c2008
ISBN	9786611840884 9781281840882 1281840882 9780470754146 0470754141 9780470754139 0470754133
Descrizione fisica	1 online resource (353 p.)
Disciplina	543/.8
Soggetti	Chromatographic analysis Multivariate analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Multivariate Methods in Chromatography; Contents; Preface; Introduction; List of Abbreviations, Acronyms and Symbols; 1 Fundamentals; 1.1 Multilinear and Nonlinear Regression Analyses; 1.2 Stepwise Regression Analysis and Partial Least Squares Method; 1.3 Two- and Three-dimensional Principal Component Analysis, Various Factor Analytical Techniques; 1.4 Canonical Correlation Analysis; 1.5 Discriminant Analysis; 1.6 Spectral Mapping; 1.7 Nonlinear Mapping; 1.8 Cluster Analysis; 1.9 Other Multivariate Techniques 1.10 Measured and Calculated Physicochemical Parameters of Chromatographic Systems and AnalytesReferences; 2 Gas Chromatography; 2.1 Theory and Practice of Gas Chromatography; 2.2 Comparison of Gas Chromatography Stationary Phases Using a Homogenous and Nonhomogenous Set of Analytes; 2.3 Elucidation of Similarities and Dissimilarities Among Samples; 2.3.1 Human Health and Pharmaceuticals; 2.3.2 Forensic Analyses; 2.3.3 Biology and Agrobiolology; 2.3.4 Food and Food Products; 2.3.5 Environmental

Analyses; 2.3.6 Other Synthetic Compounds; 2.3.7 Miscellaneous Applications; References
3 Liquid Chromatography 3.1 Thin-layer Chromatography; 3.1.1 Theory and Practice of Thin-layer Chromatography; 3.1.2 Multidimensional Classification of Thin-layer Chromatography Stationary and/or Mobile Phases; 3.1.3 Relationships Between Molecular Parameters and Thin-layer Chromatography Retention of Analytes; 3.1.4 Relationship Between Thin-layer Chromatography Retention Parameters and Biological Activity of Analytes; 3.1.5 Miscellaneous Applications; 3.2 High-performance Liquid Chromatography; 3.2.1 Theory and Practice of High-performance Liquid Chromatography
3.2.2 Multivariate Classification of High-Performance Liquid Chromatography Stationary and/or Mobile Phases 3.2.3 Differentiation Between Homologous and Nonhomologous Sets of Analytes; References; 4 Electrically Driven Systems; 4.1 Theory and Practice of Electrically Driven Systems; 4.2 Gel Electrophoretic Techniques; 4.2.1 Theory and Human Health Aspects; 4.2.2 Microorganisms; 4.2.3 Microbial Communities; 4.2.4 Plant Tissues; 4.3 Capillary Zone Electrophoresis; 4.3.1 Human Health and Pharmacology; 4.3.2 Other Applications; 4.4 Micellar Electrokinetic Chromatography and Related Technologies
References
Index

Sommario/riassunto

A comprehensive, compilation and evaluation of the newest results in the field of enumerate evaluation of chromatographic data Aimed at the practicing professional, researchers and advanced students working in this area Special emphasis on practical applications While the principles of chromatography and multivariate mathematical-statistical methods are discussed separately, the book focuses on their interconnection. Written by a chromatographer for chromatographers
