1. Record Nr. UNINA9910139627003321

Titolo	Comprehensive chromatography in combination with mass spectrometry [[electronic resource] /] / edited by Luigi Mondello
Pubbl/distr/stampa	Hoboken, N.J. : , : Wiley, , c2011
ISBN	1-283-20376-6 9786613203762 1-118-00345-4 1-118-00346-2 1-118-00344-6
Descrizione fisica	1 online resource (497 p.)
Collana	Wiley-Interscience series on mass spectrometry THEi Wiley ebooks
Altri autori (Persone)	MondelloLuigi
Disciplina	543/.8
Soggetti	Chromatographic analysis Multidimensional chromatography
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	Comprehensive Chromatography in Combination with Mass Spectrometry; Contents; Contributors; Preface; 1. Introduction; 1.1 Two-Dimensional Chromatography-Mass Spectrometry: A 50-Year-Old Combination; 1.2 Shortcomings of One-Dimensional Chromatography; 1.3 Benefits of Two-Dimensional Chromatography; 1.4 Book Content; 1.5 Final Considerations; 2. Multidimensional Gas Chromatography: Theoretical Considerations; 2.1 Symbols; 2.2 One-Dimensional GC; 2.3 Comprehensive GC x GC; 3. Multidimensional Liquid Chromatography: Theoretical Considerations; 3.1 Two-Dimensional LC Techniques 3.2 Peak Capacity in HPLC: One- and Multidimensional Separations 3.3 Orthogonality in Two-Dimensional LC-LC Systems; 3.4 Sample Dimensionality and Structural Correlations; 3.5 Separation Selectivity and Selection of Phase Systems in Two-Dimensional LC-LC; 3.6 Programmed Elution in Two-Dimensional HPLC; 3.7 Fraction Transfer Modulation in Comprehensive LC x LC: Additional Band Broadening; 3.8 Future Perspectives; 4. History, Evolution, and Optimization Aspects of Comprehensive Two-Dimensional Gas Chromatography; 4.1

Fundamentals of GC x GC; 4.2 Modulation; 4.3 GC x GC Data Interpretation
4.4 GC x GC Instrumentation 4.5 Thermal Modulators; 4.6 Comprehensive Two-Dimensional GC Method Optimization; 4.7 Final Remarks; 5. Flow-Modulated Comprehensive Two-Dimensional Gas Chromatography; 5.1 Timing Requirements of GC x GC Modulators; 5.2 Criteria for Evaluating Modulators; 5.3 Forms of Modulation; 5.4 Single-Stage Flow Modulation; 5.5 Two-Stage Flow Modulation; 5.6 Summary of Flow Modulators; 5.7 Brief Comparison to Thermal Modulation; 5.8 Concluding Remarks; 6. Comprehensive Two-Dimensional Gas Chromatography Combined with Mass Spectrometry 6.1 Instrument Requirements for GC x GC-MS 6.2 Data Processing of GC x GC-TOF MS Results; 6.3 Method Translation in GC x GC-MS; 6.4 GC x MS; 6.5 Conventional and Alternative Modulation Techniques for GC x GC-MS; 6.6 GC x GC-MS Applications; 6.7 Concluding Remarks; 7. Detector Technologies and Applications in Comprehensive Two-Dimensional Gas Chromatography; 7.1 Detection in GC x GC; 7.2 Comments on GC x GC with Mass Spectrometry; 7.3 Flame Ionization Detection in GC x GC; 7.4 Electron Capture Detection in GC x GC; 7.5 Sulfur Chemiluminescence Detection in GC x GC
7.6 Nitrogen Chemiluminescence Detection in GC x GC 7.7 Atomic Emission Detection in GC x GC; 7.8 Thermionic Detection in GC x GC; 7.9 Flame Photometric Detection in GC x GC; 7.10 Case Study of GC x GC with Selective Detection; 7.11 Dual Detection with GC x GC; 7.12 Conclusions; 8. History, Evolution, and Optimization Aspects of Comprehensive Two-Dimensional Liquid Chromatography; 8.1 Method Development and Instrumentation; 8.2 Technical Problems in Comprehensive Liquid Chromatography; 8.3 Detection; 8.4 Data Representation; 8.5 Instrumentation
8.6 Milestones in Comprehensive Liquid Chromatography

Sommario/riassunto

This book provides a detailed description of various multidimensional chromatographic separation techniques. The editor first provides an introduction to the area and then dives right into the various complex separation techniques. While still not used routinely comprehensive chromatography techniques will help acquaint the readers with the fundamentals and possible benefits of multi-dimensional separations coupled with mass spectrometry. The topics include a wide range of material that will appease all interested in either entering the field of multidimensional chromatography and those look

2. Record Nr. UNINA9910699283703321

Autore	Johnson Randy (G. Randy)
Titolo	Breeding design considerations for coastal douglas-fir [[electronic resource] /] / Randy Johnson
Pubbl/distr/stampa	Portland, OR : , : U.S. Dept. of Agriculture, Forest Service, Pacific Northwest Research Station, , [1998]
Descrizione fisica	1 online resource (34 pages) : illustrations
Collana	General technical report PNW ; ; GTR-411
Soggetti	Douglas fir - Breeding - Northwest, Pacific
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from PDF title screen (PNRS, viewed Aug. 24, 2009). "February 1998."
Nota di bibliografia	Includes bibliographical references (pages 21-24).