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Nota di contenuto	""Front Cover""; ""Contents""; ""Preface""; ""Editors""; ""Contributors""; ""Chapter 1: Overview of the Field of Chromatographic Methods of Pesticide Residue Analysis and Organization of the Book""; ""Chapter 2: Pesticide Classification and Properties""; ""Chapter 3: Method Development of Chromatography : Retention-Eluent Composition Relationships and Application to Analysis of Pesticides""; ""Chapter 4: Choice of the Mode of Chromatographic Method for Analysis of Pesticides on the Basis of the Properties of Analytes"" ""Chapter 5: Choice of the Mode of Sample Preparation in the Analysis of Pesticides on the Basis of the Properties of the Matrix""""""Chapter 6: Selection of the Mode of Stationary Phases and Columns for Analysis of Pesticides""; ""Chapter 7: Selection of the Type of Mobile Phases for Analysis of Nonionic Analytes : Reversed- and Normal-Phase HPLC""; ""Chapter 8: Selection of the Mobile Phases for Analysis of Ionic Analytes : Reversed-Phase, Ion-Pair, Ion-Exchange, Ion-Exclusion HPLC"" ""Chapter 9: Optimization of Normal-Phase and Reversed-Phase Systems for Analysis of Pesticides : Choice of the Mode of Elution-Isocratic and Gradient Elution""""""Chapter 10: Kinetics Study of Pesticides in the Environment : Application of HPLC to Kinetic Effects of Pesticide Analysis""; ""Chapter 11: Phototransformation of Pesticides in the Environment""; ""Chapter 12: Sample Preparation for Determination of Pesticides by High-Performance Liquid Chromatography and Liquid Chromatography-Tandem Mass Spectrometry""; ""Chapter 13: Quantitative Analysis and Method Validation"" ""Chapter 14: Analysis of Pesticides by HPLC-UV, HPLC-DAD (HPLC-PDA), and Other Detection Methods""""""Chapter 15: High-Performance Liquid Chromatography-Mass Spectrometry as a Method of Identification and Quantification of Pesticides""; ""Chapter 16: Multidimensional Liquid Chromatography Applied to the Analysis of Pesticides""; ""Chapter 17: Chiral Separation of Some Classes of Pesticides by High-Performance Liquid Chromatography Method""; ""Chapter 18: Application in Pesticide Analysis : Liquid Chromatography-A Review of the State of Science for Biomarker Discovery and Identification"" ""Chapter 19: Ultra-Performance Liquid Chromatography Applied to Analysis of Pesticides""""""Chapter 20: High-Performance Liquid Chromatography versus Other Modern Analytical Methods for Determination of Pesticides""; ""Back Cover""
Sommario/riassunto	HPLC is the principal separation technique for identification of the pesticides in environmental samples and for quantitative analysis of analytes. At each stage of the HPLC procedure the chromatographer should possess basic skills that substantially help in accomplishing HPLC experiments correctly, to obtain reliable, repeatable, and reproducible results. This book serves as a comprehensive source of information and training on the state-of-the-art pesticide residues methods performed with aid of HPLC and aids the readers in avoiding the many pitfalls that are possible during work with the HPLC mode.