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| 2. Record Nr. | UNINA9910829942603321 |
| Titolo | Advances in flow analysis // edited by Marek Trojanowicz |
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| Descrizione fisica | 1 online resource (704 p.) |
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| Soggetti | Flow injection 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 at the end of each chapters and index. |
| Nota di contenuto | Advances in Flow Analysis; Contents; Introduction; List of Contributors; I Methodologies and Instrumentation; 1 Theoretical Aspects of Flow Analysis; 1.1 Introduction; 1.2 Classification of Flow Systems. Fundamentals; 1.2.1 Continuous Flow Analysis; 1.2.2 Flow Injection Analysis; 1.2.3 Sequential Injection Analysis; 1.2.4 Multicommutation in Flow Injection Analysis; 1.2.5 Stopped Flow; 1.2.6 Batch Flow Injection Analysis (BFA); 1.3 Dispersion in Flow Injection Analysis: From the |

Movement of Fluids in Open Tubes to Controlled Dispersion; 1.3.1
 Transport of Fluids; 1.3.1.1 Viscosity
 1.3.1.2 Thermal Conductivity 1.3.1.3 Diffusivity; 1.3.1.4 Diffusion; 1.3.2
 The Diffusion-Convection Equation in Open Conduits; 1.3.3 The
 Distribution of Times of Residence; 1.3.3.1 Characterization and
 Experimental Domain of Flow Systems: Dimensionless Numbers and
 Their Meaning; 1.3.4 From the RTD Curve to the Generation of Signals
 in Flow Injection Systems; 1.3.4.1 The Dispersion Process; 1.3.4.2 The
 Concept of Controlled Dispersion and Analytical Implications; 1.3.4.3
 The Transient Profile; 1.4 The Measurement of Dispersion; 1.4.1 The
 Coefficient " D "
 1.4.2 Peak Width and Time of Appearance 1.4.3 Peak Variance and
 Theoretical Plate Height; 1.4.4 Degree and Intensity of Axial Dispersion;
 1.4.4.1 Degree of Axial Dispersion; 1.4.4.2 Intensity of the Radial
 Dispersion; 1.4.5 Other Approaches to the Measurement of Dispersion;
 1.5 Contribution of the Different Components of a Flow System to
 Dispersion; 1.5.1 Injection; 1.5.2 Detection; 1.5.3 Transport: Different
 Models; 1.5.3.1 Descriptive Models or "Black Boxes"; 1.5.3.2
 Deterministic Models: Dispersive Models and Tank-in-Series Model;
 1.5.4 Probabilistic Models; 1.5.4.1 Random Walk
 1.6 Design Equations 1.6.1 Influence of the Different System Variables;
 1.6.1.1 Reactor Length; 1.6.1.2 Geometric Configuration; 1.6.1.3 Flow
 Rate; 1.6.1.4 Tube Radius; 1.6.1.5 Injection Volume; 1.6.2 Optimization
 of Flow Systems; 1.7 Concluding Remarks; References; 2 Injection
 Techniques in Flow Analysis; 2.1 Introduction; 2.2 Continuous Flow
 Analysis (CFA); 2.3 Segmented Flow Analysis (SFA); 2.4 Flow Injection
 Analysis (FIA); 2.4.1 Syringe-based Injection; 2.4.2 Injection with Rotary
 Valves; 2.4.3 Proportional Injection; 2.4.4 Merged Injection
 2.4.5 Injection Following a Prior Flow Sample Processing 2.4.5.1
 Multiparametric Determination; 2.4.5.2 Dialysis; 2.4.5.3 Gas Diffusion;
 2.4.5.4 Pervaporation; 2.4.6 Hydrodynamic Injection; 2.5 Sequential
 Injection Analysis (SIA); 2.5.1 Original Procedures; 2.5.2 Conventional
 Injection; 2.5.3 Controlled Variable Volume Injection; 2.5.4 Cumulative
 Injection; 2.5.5 The Sandwich Technique; 2.5.6 Multiparametric
 Analysis; 2.5.7 Gas Diffusion; 2.5.8 Dialysis; 2.5.9 Mixing Chamber-
 Based Injection; 2.5.10 Bead Injection; 2.5.11 Hydrodynamic Injection
 2.6 Multicommutated Flow Injection Analysis (MCFIA)

Sommario/riassunto

This first book to cover different injection techniques not only provides
 a comprehensive overview of methodologies and instrumentation, it
 also covers recent advances in flow method analysis, with an appendix
 listing additional databases, instrumentation and methods on the
 Internet. A definite must-have for every chemist working in this field.