

<Book Review>

以下の本が最近出版されました。480 ページからなり、多くの実例が示されております。

FLOW INJECTION ANALYSIS: INSTRUMENTATION AND APPLICATIONS

By Marek Trojanowicz, Department of Chemistry, University of Warsaw; Institute of Nuclear Chemistry and Technology, Warsaw (World Scientific Publishing, \$108)

Introduction

Chapter 1. Molecular Spectroscopy Detection

Visible Absorption Spectrophotometry, Detection in the Ultraviolet Region, Infrared Detection, Turbidimetric Detection, Molecular Luminescence Detection Methods, Other Molecular Spectroscopic Detection Methods

Chapter 2. Atomic Spectroscopy Detection Methods

Atomic Absorption Spectroscopy, Atomic Emission Spectroscopy, Atomic Fluorescence Spectroscopy

Chapter 3. Electrochemical Detection Methods

Potentiometric Detection, Amperometric Detection, Scanning and Stripping Methods, Conductometric Detection, Flow Injection Coulometry

Chapter 4. Enzymatic Methods of Detection and Immunoassays

Enzymatic Assays, Flow Injection Immunoassays

Chapter 5. Other Detection Methods used in FIA

Photoacoustic Spectroscopic Detection, Flow Injection Inductively Coupled Plasma Mass Spectrometry, FIA in the Gaseous Phase

Chapter 6. On-line Sample Processing in FIA Systems

Irradiation Procedures, Dialysis, Gas Diffusion, Solvent Extraction, Solid-Phase Extraction, Flow-Through Reactors, Precipitation, Less Common Operations

Chapter 7. Speciation Analysis using Flow Injection Methodology

Speciation of the Oxidation State of Elements, Determination of the Degree of Complexation, Speciation of Organometallic Compounds

Chapter 8. Applications of Flow Injection Methods in Routine Analysis

Environmental Applications, Food Analysis, Biological Materials, Mineral Materials, Clinical Analysis, Pharmaceutical Applications, Biotechnology, Process Analysis

Chapter 9. Sequential and Batch Injection Techniques

Principle of Measurement and Basic Instrumentation of SIA, Measurement Techniques and On-Line Sample Pretreatment in SIA, Detection Methods in SIA Systems, Batch Injection Analysis

Chapter 10. Commercially Available Instrumentation for FIA

FIA, SIA

Chapter 11. Current Trends in Developments of Flow Analysis

Miniaturisation, Multicomponent Detection, Hyphenation to High-Performance Separation Systems