Monitoring of Air Pollutants, Vol 70. Comprehensive Analytical Chemistry

Description: Monitoring of Air Pollutants: Sampling, Sample Preparation and Analytical Techniques provides a comprehensive reference on air pollutant monitoring, addressing experimental approaches to sampling and sample preparation, as well as analytical technologies (instrumental methods) which are applicable to a wide range of topics.

The book's purpose is to provide an in-depth resource on the monitoring of ambient air pollutants that covers the basic principles, recent developments, and important applications in the field. Current trends and recent advances are discussed, both with respect to analytical techniques and target air pollutants.

All aspects of air pollutant monitoring, from sampling, to sample preparation, and analysis, are covered, making this the book of choice for consultation by air monitoring practitioners.

- Contains all the information needed for air pollutant monitoring from sampling, to sample preparation, to analysis
- Provides guidance on the best analytical approach for a target pollutant
- Presents the pros and cons of included techniques to enable informed decisions
- Includes case studies based on published practical applications

Contents: Perspectives on the Monitoring of Air Pollutants
Patricia Forbes

Passive Diffusion Sampling Devices for Monitoring Ambient Air Concentrations
J.J. Pienaar

Biomonitors
Patricia Forbes

Ambient Air Sampling with Whole Air, In-Field Concentration, and Particulate Matter (PM) Methodologies
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Automated Continuous Air Monitoring
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Novel and Emerging Air Sampling Devices
J Grandy

Spectroscopic and Chromatographic Techniques and Methodologies for the Determination of Metals, Metalloids and Ions in Atmospheric Aerosols
Patricia Smichowski

Chromatographic Techniques for Organic Analytes
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