



Static Headspace-Gas Chromatography: Theory and Practice

By Bruno Kolb, Leslie S. Ettre

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The only reference to provide both current and thorough coverage of this important analytical technique

Static headspace-gas chromatography (HS-GC) is an indispensable technique for analyzing volatile organic compounds, enabling the analyst to assay a variety of sample matrices while avoiding the costly and time-consuming preparation involved with traditional GC.

Static Headspace-Gas Chromatography: Theory and Practice has long been the only reference to provide in-depth coverage of this method of analysis. The Second Edition has been thoroughly updated to reflect the most recent developments and practices, and also includes coverage of solid-phase microextraction (SPME) and the purge-and-trap technique. Chapters cover:

- * Principles of static and dynamic headspace analysis, including the evolution of HS-GC methods and regulatory methods using static HS-GC
- * Basic theory of headspace analysis-physicochemical relationships, sensitivity, and the principles of multiple headspace extraction
- * HS-GC techniques-vials, cleaning, caps, sample volume, enrichment, and cryogenic techniques
- * Sample handling
- * Cryogenic HS-GC
- * Method development in HS-GC
- * Nonequilibrium static headspace analysis
- * Determination of physicochemical functions such as vapor pressures, activity coefficients, and more

Comprehensive and focused, Static Headspace-Gas Chromatography, Second Edition provides an excellent resource to help the reader achieve optimal chromatographic results. Practical examples with original data help readers to master determinations in a wide variety of areas, such as forensic, environmental, pharmaceutical, and industrial applications.

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Editorial Review

Review

"This is an important resource on an increasingly useful technique. It should be in the library of any chromatographer...Essential." (*CHOICE*, November 2006)

From the Publisher

This text emphasizes the techniques, methods and procedures of static headspace-gas chromatography (HS-GC). It covers the theory of headspace sampling as related to selection of the operational parameters, describes quantitative calibration techniques, and presents detailed methods, all adapted for automation. It includes many examples of proven practical applications--complete with original data--from the most important applications of static HS-GC in environmental analysis, polymers, packaging, pharmaceuticals, and food analysis.

From the Back Cover

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