



# Static Headspace—Gas Chromatography: Theory and Practice

*Bruno Kolb, Leslie S. Ettre*

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Static Headspace-Gas Chromatography Theory and Practice Bruno Kolb Leslie S. Ettre Static (equilibrium) headspace-gas chromatography (static HS-GC) offers a reliable, simple, and accurate way to quantitate volatile compounds in liquid and solid matrices. The technique is being used in increasingly more analytical laboratories in a variety of industries because it enables high sample turnaround, automated high-performance GC analysis, and automated and unattended sample clean-up by gas extraction, while avoiding laborious sample preparation. Static Headspace-Gas Chromatography provides the most thorough and current treatment available on this technique. The book covers the theory of headspace sampling as related to selection of the operational parameters, describes quantitative calibration techniques, and presents, 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.

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