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A review of: “Quantitative Gas Chromatography for Laboratory Analyses and On-Line Process Control, G. Guiochon & C. L. Guillemin, Elsevier Science Publishers, Amsterdam, New York, 1988, US\$165.75. 780 pp”

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BOOK REVIEW

"Quantitative Gas Chromatography for Laboratory Analyses and On-Line Process Control," G. Guiochon & C. L. Guillemin, Elsevier Science Publishers, Amsterdam, New York, 1988, US\$165.75, 780 pp.

This volume deals with how gas chromatography should be used for accurate and precise analysis. The first part covers theoretical background in a way that only Guiochon and Guillemin can do it....simple to be understood by all, yet complete and state-of-the-art. Included are discussions of flow dynamics, retention and band broadening. Changes in chromatographic band profiles associated with column overloading are treated with a minimum of mathematics.

In the second part, the gas chromatographic instrumentation is discussed with an emphasis on the properties of each component, including gas flow and pressure controller, sampling system, oven, column switching, valves, detectors. Various configurations and implementations, their advantages, and their disadvantages are compared. Three chapters are devoted to column technology: packed, open tubular and some sophisticated new phase systems.

Applications for qualitative and quantitative analysis are presented in the third part of this outstanding volume. Calibration, integration, sources of errors are carefully described in four chapters.

This book is highly recommended, without reservation to all who use, will use and are in any way interested in the proper application of gas chromatography for analysis of chemical substances. This volume serves equally well as an introductory text and as a critical reference.

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