

Coupling of Thermal Analysis and Gas Analysis

Techniques and Applications

Application Volume

Thermoanalytical methods are well-established in the field of solid-gas reactions and compositional analysis, however yielding only an integral information of the complex processes involved. On-line detection and analysis of gas composition and all volatiles in sensitive gas analyzers are applied to understand the nature, chemistry and mechanism of all processes during thermal treatment.

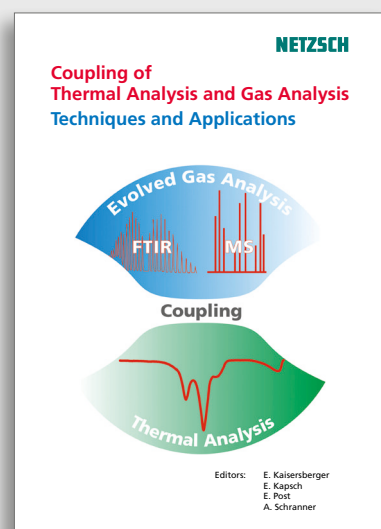
Fourier transform infrared spectrometry (FTIR) and Mass spectrometry (MS) are the preferred methods for a continuous gas analysis in combination with thermal analysis.

This collection of techniques and applications gives an overview of the state-of-the-art coupling techniques between thermobalances, simultaneous TG-DSC/DTA systems and commercial mass spectrometers and FTIR systems. The applications section features a broad range of organic and inorganic materials and shows the use of additional information from gas analysis in various industrial processes and material research.

Quantitative work is well-covered by the calibration of gas analyzers applying *PulseTA*[®]. The transfer of condensable materials through reduced pressure conditions for FT-IR coupling and in the *SKIMMER*[®] coupling for MS is discussed.

The specific contributions of internationally renowned authors are highly appreciated by the team of editors.

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