

旗舰型离子色谱

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TOOLS FOR NANOTECH 岛津
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等

摘要：小型流程质谱计是一种以四极质谱计为分析器、对工业过程中的气体成分进行监控和分析的仪器。其广泛应用于现代化工、制药、建材、食品等工业，对生产流程、质量进行精确控制，小型流程质谱计分析系统性能的高低直接影响这些产品的生产和质量，其性能指标主要指分析系统的稳定性和精度。本文从监控软件设计的数学建模、分析方法等方面探讨如何提高分析系统的性能。

关键词：质谱计, 本底, 微样气, 数值滤波

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Performance optimization of the small processing mass spectrometer by software designed

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Abstract: The small processing mass spectrometer (SPMS) is an industrial processing gas component analyzing and monitoring instrument using quadrupole mass spectrometer (QMS) as its analyzer. It is applied extensively in modern chemical engineering and making industries, such as medicine, building materials and food...etc. The performance of the spectrometer analysis system affects the quality of production in these industries directly, the performance beacon of the analyzes system is the stability and the precision. This paper study how to raise performance of the analyze system from the mathematics modeling and the analysis method of the monitor software designed.

Key words: Mass spectrometer, Background, Small sample gas, Numerical filter

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