

痕量元素分析新方法在地质调查中的应用研究进展

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摘要: 简要介绍了痕量超痕量分析新技术新方法在地质调查中的开发应用研究进展。内容包括地质调查项目背景和重要性, 铈镍试金—ICPMS测定贵金属元素分析方法, 高压密封酸溶—ICPMS在测定地质样品中痕量超痕量稀土、稀有分散、铌钽锆钨等47种元素的应用, 卤素等非金属元素分析方法等研究进展及成果。

关键词: 地质调查; 痕量元素分析; ICP-MS

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Recent progress in the study of the application of the new trace element analytical method in geological survey

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Abstract: The paper briefly describes the recent progress in the study of the development and application of the new trace element analytical method in geological survey. The content includes the background and importance of the project of geological survey; the method for analysis of noble metal elements with the nickel sulfide fire assay-ICPMS; the application of sealed pressurized acid digestion method for analysis of 47 trace elements such as REE, rare and dispersive elements and Nb, Ta, Zr and Hf; the progress and results of studies of the methods of halogens and other nonmetal elements.

Key words: geological survey; trace element analysis; ICP-MS