

典型应用

CBERS-02B星数据质量评价及其铀成矿要素解译应用研究

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摘要:

利用遥感影像处理技术和数理统计方法, 评价了中巴地球资源一号卫星02B星(CBERS—02B, 以下简称02B星)遥感数据的空间特性和辐射特征, 并与ETM+多光谱数据主要特征参数进行了对比分析。在此基础上, 以江西桃山花岗岩型铀矿田为试验区, 结合航空放射性数据, 开展了基于02B星遥感数据的控矿断裂带、热液蚀变带及主要成矿岩体等铀成矿要素的光谱特征识别与提取, 并对该数据的地质应用潜力进行了评价。

关键词: CBERS-2B; 铀矿床; 信息提取

THE IMAGE QUALITY EVALUATION OF CBERS—02B AND THE APPLICATION OF THE SATELLITE TO THE INTERPRETATION OF ORE-FORMING FACTORS OF URANIUM DEPOSITS

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Abstract:

Utilizing remote sensing imagery processing technology and mathematical statistic methods, this paper evaluated the spatial and radiation features of CBERS—02B satellite remote sensing imagery, and comparatively analyzed the main characteristic parameters with ETM+. Based on the above studies and integrated with aerial radioactivity data, the authors identified and mapped such spectral features of main ore-forming factors of uranium deposits as ore-controlling faults, hydrothermal alterations and plutons, and evaluated geological application potentials of CBERS—02B remote sensing imagery in the Taoshan granite-type uranium deposit.

Keywords: CBERS-02B; Uranium deposit; Information identification

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