

遥感应用

利用ETM数据进行矿化蚀变信息提取的方法研究——以柴北缘地区为例

摘要:

在柴北缘地区利用ETM数据进行遥感矿化蚀变信息提取方法研究主要基于三个方面: ①研究区蚀变信息及背景干扰地物信息的光谱特征; ②矿化蚀变信息提取的最佳变量集组合; ③图像增强处理方法和流程。在综合分析研究的基础上, 采用“图像掩膜→最佳变量组合→波段比值→主成分分析→阈值分割→多元数据综合分析及异常筛选”的方法和流程提取了柴北缘成矿带的矿化蚀变异常信息, 为该区综合成矿预测提供了可靠依据。

关键词: 柴北缘 矿化蚀变 信息提取方法和流程 波谱测试及处理

The Research on Extraction Method of the Mineralization Alternation Information with ETM Image——Take the Northern Marginal of Chaidamu Basin as an Example

Abstract:

In the northern marginal of Chaidamu Basin, the research on extraction method of the mineralization alternation information with ETM image is based on three aspects: ① the spectrum features of background interference information & alteration of information in the study area; ② the best combination of variables of mineralization alternation information extraction; ③ image enhancement processing methods. Based on comprehensive analysis, the method of “mask image → the best combination of variables → band ratio → principal component analysis → multi data analysis & abnormal screening” is used to extract mineralization alternation abnormal information in the study area. The research provides a reliable basis to the area of comprehensive forecasting.

Keywords: northern marginal of Chaidamu basin mineralization alternation information extraction methods spectrum test and processing

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