

技术应用

多源遥感数据综合解译鄂尔多斯盆地杭锦旗地区地质构造

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摘要:

利用多源遥感数据假彩色合成、融合及纹理分析等增强处理方法提取研究区构造信息, 进而对研究区进行综合解译|通过分析水系、色调、纹理、地貌及岩性等特征, 判断出杭锦旗地区存在一小一大、内外相套的2个环形构造, 发育的北西向、北东向2组共轭断层和一组北北西向断层, 与环形构造相互构架, 构成研究区特殊的构造体系。经分析预测, 这些构造是受周边南北向构造应力共同挤压而形成。

关键词: 线性体 环形体 遥感解译

THE INTERPRETATION OF FAULTS IN HANGJINQI AREA OF ORDOS BASIN USING MULTI-SOURCE RS IMAGES

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Abstract:

Remote Sensing images can reflect figure features and spreading regularities of many geological factors intuitively, and display concealed structures and movable structures effectively. This paper describes the general tectonic structure of Ordos and the tectonic setting of Hangjinqi and interprets the RS images of Hangjinqi with the aid of information extracted by such means as texture analysis and fusion. Based on characteristics of such factors as hydrographic nets, tones, textures, and geomorphic and lithologic elements, the authors consider that there exist two conjugated fractures and two circular faults as well as another set of NNW-trending fractures in Hangjinqi. These fractures interlace with each other and form a special tectonic system favorable for mineralization. These structures resulted from the compression by joint tectonic stress from south and north.

Keywords: Linear fault Circular fracture Remote sensing interpretation

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