

方法技术

RGB混频显示技术及其在河道识别中的应用

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摘要

目前谱分解技术已经成为地震储层预测的一种常规技术手段。分频成果显示方面,由于其特殊的显示效果,RGB颜色混合技术也越来越受到关注。介绍了RGB分频混合显示技术在某三维工区河道识别中的应用。首先进行小波分频处理,然后将频带上互不重叠的三个分频能量属性体进行RGB颜色混合,在混频体上实现对目标体的刻画和研究。应用效果表明,利用RGB混频显示技术可以大大提升分频成果对河道的分辨能力,其结果明显优于单个分频能量属性效果。

关键词 [小波分频](#) [RGB混频显示](#) [河道识别](#) [储层预测](#)

RGB color blending and its application in channel recognition

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Abstract Spectral decomposition has become a routine tool for reservoir prediction and description. RGB color blending display mode is becoming more and more popular in result representation derived from spectral decomposition. In this paper, we discuss the RGB color blending technique and its application in channel recognition. The attribute volumes of 3 different dominant frequency were set to R (red color), G (green color), and B (blue color) separately and were RGB blended. The RGB blended volume was used in reservoir prediction and analysis. On the RGB blended attribute map, channel system is clear and definite, and faults are shown as pure white color. The resolution for channel recognition has been improved greatly compared with using single attribute.

Key words [wavelet time frequency transform](#); [RGB color blending](#); [channel recognition](#); [reservoir prediction](#)

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