

论文

基于叠前深度偏移的AVO反演及解释

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**摘要** 本文针对复杂构造地区AVO技术应用的难点, 在详细阐明了偏移对改善AVO分析效果的重要意义前提下, 为实现在复杂构造地区有效地进行AVO研究, 将叠前深度偏移引入到AVO处理中, 通过偏移来改善资料的质量. 在此基础上进行了揭示岩性及流体变化特征的多种参数的AVO反演, 并探讨了利用多种AVO属性的综合分析来确定和解释AVO异常的方法. 利用本文提出的复杂构造AVO研究思路对实际资料进行了分析, 结果说明了该方法的可行性.

**关键词** [叠前深度偏移](#) [AVO反演](#) [AVO属性](#) [AVO异常](#)

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### AVO inversion and interpretation based on prestack depth migration

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**Abstract** Aiming at the difficulties of applying AVO technique to complex structure areas, in the premise of clarifying the important significance of migration technique on AVO analysis effect improvement, in order to achieve the effective AVO research in complex structure area, this paper introduced prestack depth migration into the AVO process for the purpose of improving the prestack data quality. AVO inversion based on this was performed to acquire multiple AVO attribute parameters which reveal the variable characters of lithology or pore fluid. At the same time, this paper also probed into the method of determining and interpreting AVO anomaly using the integrated analysis of multiple AVO attributes. Applying this proposed complex structure research method to analyze the practical seismic data, and the acquired result illustrates the feasibility of this method.

**Key words** [prestack depth migration](#); [AVO inversion](#); [AVO attributes](#); [AVO anomaly](#)

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