

## 综合评述

## 波动方程偏移中的成像条件研究进展

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收稿日期 2008-4-14 修回日期 2008-5-5 网络版发布日期 2008-10-8 接受日期

摘要 基于波动方程的叠前深度偏移由于其对速度剧烈变化的强适应性而受到重视, 成像条件在波动方程偏移中起着非常重要的作用。分别从成像条件计算稳定性的提高、成像条件在角度域共成像点道集提取中的应用以及其在改善成像效果和提高计算效率3个方面进行了系统的阐述, 并介绍了成像条件研究的最近进展以及具体的应用效果, 理论模型的处理效果表明了其有效性和实用性。最后分析了当前阶段主要存在的问题以及将来的发展方向。

关键词 [成像条件](#); [角度域共成像点道集](#); [叠前深度偏移](#); [计算效率](#)

## Progress in research of imaging condition for wave equation migration

Xu Qin, Li Zhenchun, Bao Wei

Abstract Progress in research of imaging condition for wave equation migration

Xu Qin, Li Zhenchun, Bao Wei. PEG, 2008, 31(4): 247~252

Wave equation prestack depth migration has been received more and more attention due to its adaptability in areas of drastically variable velocity. Imaging condition plays an important role in wave equation migration. In this paper we reviewed the key aspects of imaging conditions including improvement of computational stability, extraction from common imaging point gathers in angle domain, and improvement of imaging quality and efficiency. We reviewed the progress in research of imaging condition and its applications. The effectiveness of imaging conditions was testified on theoretical data. Problems yet to be solved were documented and the future trend of imaging condition research was forecasted.

Key words [imaging condition](#); [common image point gather in angle domain](#); [prestack depth migration](#); [computational efficiency](#)

分类号

DOI:

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