OIL GEOPHYSICAL PROSPECTING

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处理技术

叠前随机噪声衰减及其应用技巧

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Random noise attenuation on prestack seismic data and its application skills

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摘要 本文简要地介绍GeoEast系统中叠前随机噪声衰减模块的基本原理，并且着重介绍该模块中能量比值加权、算子外推、预测算子长度、处理的起始频率和终止频率、时间和空间长度及其重叠的百分数等几个重要参数的作用，同时介绍了这些参数与计算机机时的关系以及这些参数的应用技巧。

关键词： 叠前地震数据 3D-RNA 4D-RNA 预测算子 随机噪声衰减

Abstract： We discribe primarily in this paper the basic principes of the modules for seismic data prestack random noise attenuations in GeoEast processing system. Then we discuss the function of some key parameters in the module which include the weighting coefficient of energy ratio, the extrapolation of predictive operators, the predictive operator length, the start and end frequency for noise attenuation, the time window length and its overlap percent, the spatial window length and its overlap percent. These parameters selection effect the CPU time. Some skills of parameters selection are given in the paper, which might be helpful for GeoEast users.

Keywords： prestack seismic data 3D-RNA 4D-RNA prediction operator random noise attenuation

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