

信息融合在复杂油气储层物性参数综合研究中的应用

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摘要 油气藏的孔隙度、含气饱和度和渗透率等多个因素分别揭示了油气藏的某方面的特性,在进行油气藏勘评价时需要将各方面的信息进行综合考虑.传统的处理方法是进行图形叠合,这往往要根据经验来进行,当中人为因素较大,不易控制.本文将特征信息融合的方法引入到油气评价中,采用基于卡尔曼滤波的特征信息融合的方法构造一种新的综合特征参数来描述油气藏,使用综合特征参数对油气藏进行评价,尽量消除人为因素的作用,从而更真实的反映油气储层的地质状况,确定油气开采的最优井位.

关键词 [油气储层](#),[信息融合](#),[卡尔曼滤波](#)

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The application of data fusion in the research of physic parameters of complicated oil-gas reservoir

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Abstract The factors, such as porosity, gas-bearing saturation and permeability, open out some characteristic of the oil-gas reservoir. All the factors should be taken into account when the oil-gas reservoir is been evaluating. The traditional way is to produce a geological information figure according to the factors. It always needs experience, so great deals of personal factors are involved. This work is to build a new way to evaluate oil-gas resource by a new parameter through the diagnostic data fusion based on Kalman filter. The way would avoid the affection of operating crew, evaluate the reserve more impersonal and indicate the best oil-gas field more effectual.

Key words [oil-gas reservoir](#) [data fusion](#) [Kalman filter](#)

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