

综合评述

岩心核磁 T₂谱与毛管压力曲线转换的研究

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摘要 毛管压力曲线是评价岩石孔隙结构的重要途径,核磁 T₂谱分析岩石孔隙结构可以将毛管压力曲线作为接合点。由于岩石孔隙形状的假设模型不同,核磁 T₂转换毛管压力曲线法可分为两类,一是线性转换方法,包括直接转换法、平均饱和度误差最小值法、volokitn经验公式法以及相似对比法;另一类是幂级数法。线性转换方法与幂级数法的本质区别在于是否假设孔隙为球形或管柱状。综合叙述了这两类方法的理论原理,并对比阐述了各方法的优缺点。

关键词 [岩心](#); [核磁 T₂](#); [毛管压力曲线](#); [孔隙结构](#); [研究进展](#)

Progress of converting core NMR T₂ spectrum into capillary pressure curve

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Abstract Capillary curve provides an important means for rock pore structure evaluation. According to the model of pore structure, there are basically two approaches for converting NMR T₂ spectrum into capillary curve. One is linear conversion technique which includes direct conversion method, minimal average saturation method, Volokitn empirical formula, as well as semblance and contract method. The other is power series technique. The difference between the two categories lies in whether sphere or cylinder is used for pore structure. This paper reviewed the principles of these two methods and illustrated the advantages and disadvantages of various methods.

Key words [core](#); [NMR T₂](#); [capillary pressure curve](#); [pore structure](#); [research progress](#)

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