عنوان مقاله:
Neuralnetwork prospect in immiscible flooding modeling

محل انتشار:
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خلاصه مقاله:
In spite of several decades of artificial neural network research in other engineering disciplines, only recently work has been reported on its use as aprediction tool in petroleum engineering applications. Existing methods for the prediction of fluid flow in porous media include numerical simulation techniquesand laboratory core flood experiments. Both of these methods are generally expensive and time consuming. However, neural networks, once successfullytrained, can be used to predict reservoir performance in a short time with a personal computer. An artificial neural network was developed using dataobtained from fine-mesh numerical simulation to predict the breakthrough oil recovery of immiscible displacement of oil by water in a two-dimensional vertical cross section

کلمات کلیدی:
Artificialneural network,immiscible flooding,EOR