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Estimating sub-core permeability using multiple coreflooding experiments

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Coreflooding experiments are used regularly for reservoir rock characterization and have been developing in recent years. Investigation of sub-core phenomenon has been a topic of wide interest and estimating sub-core permeability distribution k(x,y,z) is important for that, and also for constructing accurate coreflooding models. This work presents a method for estimating permeability, combining data from multiple coreflooding experiments including different flowrates and fraction of injected fluids. Furthermore, the estimation accuracy considering a large number of physical parameters was studied. The method is shown to significantly improve the estimation accuracy in comparison to methods that incorporate data only from a single experiment which was studied in our previous work.

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