



Numerical Modeling of Viscoelastic Polymer Flooding in Core Scale

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | This book presents a new numerical model for prediction of oil recovery in core scale in process of viscoelastic polymer flooding as a tertiary stage of EOR with consideration of dispersion, thermal effect, diffusion and dispersion, inaccessible pore volume, polymer retention, elastic behavior of viscoelastic polymers, permeability reduction factor and shear-thinning behavior of polymers. Additionally, partially differential equations are solved numerically by implicit in pressure and explicit in water saturation, polymer and salt concentration. Finally, the model results are validated by core-flood test. Furthermore, a computer program has been developed in MATLAB environment to perform calculations and solve concentration equation by trial and error. The model can be applied to estimate oil recovery of other core flood experiments; therefore, experimental costs can be decreased significantly. | Format: Paperback | Language/Sprache: english | 76 pp.

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