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Accurate Determination of Characteristic Relative Permeability Curves

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Highlights

- Accurately 3D models may be used to determine the correct characteristic relative permeability.
- 1D homogeneous models may be used only if the core has low heterogeneous and N_c is greater than 10^{-2} .
- If model accuracy is questionable, a simple 1D model should be used.
- For complex cores, 3D models may be required to determine the characteristic relative permeability.
- Rate-independent characteristic relative permeability and rate-dependent effective relative permeability may coexist.

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