## Accepted Manuscript

Accurate Determination of Characteristic Relative Permeability Curves

Michael H. Krause, Sally M. Benson

 PII:
 S0309-1708(15)00156-6

 DOI:
 10.1016/j.advwatres.2015.07.009

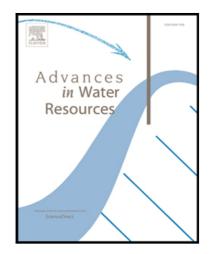
 Reference:
 ADWR 2421

To appear in: Advances in Water Resources

Received date:7 March 2015Revised date:11 July 2015Accepted date:14 July 2015

Please cite this article as: Michael H. Krause, Sally M. Benson, Accurate Determination of Characteristic Relative Permeability Curves, *Advances in Water Resources* (2015), doi: 10.1016/j.advwatres.2015.07.009

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## ACCEPTED MANUSCRIPT

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.

A CERTIN

1

Download English Version:

## https://daneshyari.com/en/article/6380951

Download Persian Version:

https://daneshyari.com/article/6380951

Daneshyari.com