

Accepted Manuscript

Capillary pressure at irregularly shaped pore throats: Implications for water retention characteristics

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PII: S0309-1708(17)30454-2
DOI: [10.1016/j.advwatres.2017.09.025](https://doi.org/10.1016/j.advwatres.2017.09.025)
Reference: ADWR 2959



To appear in: *Advances in Water Resources*

Received date: 2 May 2017
Revised date: 25 September 2017
Accepted date: 28 September 2017

Please cite this article as: Hyoung Suk Suh , Dong Hun Kang , Jaewon Jang , Kwang Yeom Kim , Tae Sup Yun , Capillary pressure at irregularly shaped pore throats: Implications for water retention characteristics, *Advances in Water Resources* (2017), doi: [10.1016/j.advwatres.2017.09.025](https://doi.org/10.1016/j.advwatres.2017.09.025)

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Highlights:

- Lattice Boltzmann simulation can accurately compute capillary pressure in irregular pore channels.
- Our morphological analysis estimates the effective pore throat shape to compute capillary pressure without lattice Boltzmann simulation.
- Pore network models calibrated by these specific capillary pressures produce water retention curves similar to experiment.

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