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### Dynamics Of Fluids In Porous

Bagchi A, Kulacki FA (2011) Natural convection in horizontal fluid-superposed porous layers heated locally from below. *Int J Heat Mass Transf* 54:3672-3682 4. Bear J (1972) Dynamics of fluids in porous media. Dover, New York 5. Author: Yan Su. Publisher: Springer. ISBN: 9783319142371. Category: Business & Economics. Page: 47. View: 499 ...

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1. Introduction. If the angle that the interface between two fluids forms with a solid surface (the contact angle), is both lower and higher than  $90^\circ$ , meaning that there is a mix of hydrophobic and hydrophilic regions, a material is defined as being mixed-wet []. Flow in mixed-wet porous media is

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Nonetheless, porous media are notoriously complex and obtaining reliable data on pore structure and the fluid contained in the pores is a significant challenge. Experimental techniques such as nuclear magnetic resonance (NMR) imaging are valuable, and NMR relaxometry experiments can yield information on the nanoscale behaviour of fluids.

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Understanding the physics of water evaporation from saline porous media is important in many natural and engineering applications such as durability of building materials and preservation of monuments, water quality, and mineral-fluid interactions. We applied synchrotron x-ray microtomography to investigate the pore-scale dynamics of dissolved salt distribution in a three dimensional drying ...

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2 cm and ...

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5.0 out of 5 stars A foundation book of Fluids Dynamics in porous media. Reviewed in the United States on June 5, 2019. Verified Purchase. I good book to introduce the Dynamics of Fluids, useful to understand the physical mechanism related to fluid in porous media. I recommended.

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A unique and timely book on understanding and tailoring the flow of fluids in porous materials Porous media play a key role in chemical processes, gas and water purification, gas storage and the development of new multifunctional materials. Understanding hydrodynamics in porous media is decisive for enabling a wide range of applications in materials science and chemical engineering.

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