

CLIFFORD K. HO AND STEPHEN W. WEBB Sandia National Laboratories, P. O. Box 5800, Albuquerque, NM 87185, USA Gas and vapor transport in porous media occur in a number of important applications

including drying of industrial and food products, oil and gas exploration, environmental remediation of contaminated sites, and carbon sequestration. Understanding the fundamental mechanisms and processes of gas and vapor transport in porous media allows models to be used to evaluate and optimize the performance and design of these systems. In this book, gas and vapor are distinguished by their available states at standard temperature and pressure (20 °C, 101 kPa). If the gas-phase constituent can also exist as a liquid phase at standard temperature and pressure (e. g. , water, ethanol, toluene, trichloroethylene), it is considered a vapor. If the gas-phase constituent is non-condensable at standard temperature and pressure (e. g. , oxygen, carbon dioxide, helium, hydrogen, propane), it is considered a gas. The distinction is important because different processes affect the transport and behavior of gases and vapors in porous media. For example, mechanisms specific to vapors include vapor-pressure lowering and enhanced vapor diffusion, which are caused by the presence of a gas-phase constituent interacting with its liquid phase in an unsaturated porous media. In addition, the "heat-pipe" exploits isothermal latent heat exchange during evaporation and condensation to effectively transfer heat in designed and natural systems.

A Shade of Vampire 8: A Shade of Novak (Volume 8), Ememess issue 5 (Ememess Press), Mastering Algorithms with Perl, Low End of Nowhere: A Streeter Thriller, The Killer Handyman: The True Story of Serial Killer William Patrick Fyfe (Crimes Canada: True Crimes That Shocked the Nation Book 7), Extending Microsoft Dynamics AX 2012 Cookbook, The Poor Folk and the Gambler (Everymans Library), Shakespeares Dramatische Werke, Zweiter Band (German Edition),

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The Theory and Applications of Transport in Porous Media book series is porous media and corresponding processes are flow of oil, gas, and water in oil.

Theory and Applications of Transport in Porous Media . and applications that are relevant to gas and vapor transport in porous and fractured.

Modeling transport in porous media requires to take into account Heat and mass transfer in porous media is central to many applications involving . The development of the homogenization theory for porous media problems follows this idea. The .. upward gas flow in the case of a high permeability medium [61, 86–89].

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5. Introduction. 6. Classification of transport phenomena in porous media .. gases eq () can be derived from the kinetic gas theory [44,45], that is to say . transport is of interest in such diverse applications as: porous electrodes [68]. Current applications of pore network models

are considered, with special Flow and transport phenomena in porous media play an important role in many .. Physical gas adsorption has been used to study the pore characteristics of solid and BdB theories of extracting PSD, based on a description of a porous material. Efficient simulation of flow and transport in porous media on Lattice Gas Methods for PDE's Theory, Application and Hardware, Physica D, 47 ()).

Fluid flow and transport in porous media play a fundamental role in a broad range of applications, e.g., unconventional oil/gas recovery, geological CO₂. CHAPTER 2. TRANSPORT PROPERTIES OF POROUS MEDIA . Flow Regimes and Gas Transport at Isothermal Conditions. Application to Oil/Water Systems. . The theory and modeling of the porous material, fluid, and.

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