

# Flow Of Gases Through Porous Media

Flow of Gases Through Porous Media Diffusion of Gases Through Porous Media Flow of Air and Natural Gas Through Porous Media Transient Flow of Ideal and Real Gases Through Porous Media The Diffusion and Flow of Gases Through Porous Media Flow and Diffusion of Gases Through Porous Media Flow of Real Gases Through Porous Media Diffusion and Flow of Gases Through Porous Media Flow of Gases Through Porous Media Gas Transport in Porous Media FLOW OF GASES THROUGH CONSOLIDATED POROUS MEDIA. The Flow of Gases Through Porous Inorganic Media Diffusion and Flow of Gases in Porous Catalysts Mixing of Gases in Porous Media Flow and Diffusion of Gases Through Porous Solids Flow of Gases Through Porous Media The Journal of Gas Lighting, Water Supply & Sanitary Improvement Gas Transport in Porous Media Pharmaceutical Journal The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science Philip Crosbie Carman William Henby Hedley Theodore W. Johnson Rafi Al-Hussainy Shu-Lung Wang Surendra Kumar Verma Rafi Al-Hussainy K. P. Chu John W. Ross Clifford K. Ho David Cornell Lee David Underhill Leonard Benjamin Rothfeld Charles Donnally Schmidt Zuhair Moosa Allawi Ayad A. Alzaydi Edward Allen Mason Flow of Gases Through Porous Media Diffusion of Gases Through Porous Media Flow of Air and Natural Gas Through Porous Media Transient Flow of Ideal and Real Gases Through Porous Media The Diffusion and Flow of Gases Through Porous Media Flow and Diffusion of Gases Through Porous Media Flow of Real Gases Through Porous Media Diffusion and Flow of Gases Through Porous Media Flow of Gases Through Porous Media Gas Transport in Porous Media FLOW OF GASES THROUGH CONSOLIDATED POROUS MEDIA. The Flow of Gases Through Porous Inorganic Media Diffusion and Flow of Gases in Porous Catalysts Mixing of Gases in Porous Media Flow and Diffusion of Gases Through Porous Solids Flow of Gases Through Porous Media The Journal of Gas Lighting, Water Supply & Sanitary Improvement Gas Transport in Porous Media Pharmaceutical Journal The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science Philip Crosbie Carman William Henby Hedley Theodore W. Johnson Rafi Al-Hussainy Shu-Lung Wang Surendra Kumar Verma Rafi Al-Hussainy K. P. Chu John W. Ross Clifford K. Ho David

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clifford k hoand 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 g 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

this monograph gives an historical account of the development of the dusty gas model for the description of gas transport in porous media and describes the model and its applications in sufficient detail that it can be employed in engineering practice

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