Radon Diffusion Coefficient In Radon Proof Membranes

Diffusion Coefficients in Large Bodies of WaterDetermination of a diffusion coefficient in the diffusion equation with a source and an initial distributionThe Effect of Concentration on Diffusion Coefficients in Binary SystemsMulticomponent DiffusionDiffusion Coefficients in Multicomponent SolventsDetermining a Function Diffusion Coefficient in the Heat EquationDiffusion Coefficient in Solid State ElectrolytesA Molecular Interpretation of Mutual Diffusion Coefficients in LiquidsDetermination of Diffusion Coefficient in Aqueous SolutionsDiffusion in LiquidsThe Mathematics of DiffusionAir and WaterA Simple Theory of Self-diffusion Coefficient in LiquidsAdvancements of Phase Behavior and Fluid Transport in Petroleum ReservoirsDiffusion Coefficient in He3 Near Its Critical PointDiffusion Coefficients in Solution: an Improved Method of Calculating D as a Function of ConcentrationAdvances in Chromatography, Volume 46Transport Processes in Pharmaceutical SystemsA New Experimental Technique for Measuring the Diffusion Coefficient in Binary Liquid SolutionsSpringer Handbook of Experimental Fluid Mechanics Walter Joseph Maier Loi Vu Pham Kumbla Narasimha Srinivas Prabhu E. L. Cussler John Thomas Holmes Finbarr O'Sullivan Frank Borowski Kenneth Joseph Czworniak Shao-yuen Chang H. J. V. Tyrrell John Crank Mark W. Denny Horst M. Greb Xiaohu Dong Kenneth Alfred Flowers Howard Maxwell Kindsvater Eli Grushka Gordon L. Amidon Massimo Capobianchi Cameron Tropea

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Diffusion Coefficient in He3 Near Its Critical Point Diffusion Coefficients in Solution: an Improved Method of Calculating D as a Function of Concentration Advances in Chromatography, Volume 46 Transport Processes in Pharmaceutical Systems A New Experimental Technique for Measuring the Diffusion Coefficient in Binary Liquid Solutions Springer Handbook of Experimental Fluid Mechanics *Walter Joseph Maier Loi Vu Pham Kumbla Narasimha Srinivas Prabhu E. L. Cussler John Thomas Holmes Finbarr O'Sullivan Frank Borowski Kenneth Joseph Czworniak Shao-yuen Chang H. J. V. Tyrrell John Crank Mark W. Denny Horst M. Greb Xiaohu Dong Kenneth Alfred Flowers Howard Maxwell Kindsvater Eli Grushka Gordon L. Amidon Massimo Capobianchi Cameron Tropea*

diffusion coefficients were determined for the chloroform air system at 50 c and for the methanol air system at 55 c by the arnold cell technique the effect of concentration was studied by varying the concentration of the gas stream passing across the top of the arnold cell the chloroform air system exhibited a strong dependency on concentration for this system the diffusion coefficient changed by approximately ten percent as the chloroform concentration in the gas stream was changed from zero to 56 percent the variation of the diffusion coefficient in the methanol air system was small a total variation of one percent was observed over the concentration range of zero to 46 percent methanol since the variation of diffusion coefficient for methanol air system was of the order of one percent assumption of constancy of diffusion coefficient with concentration would cause little error in design calculations hence no correlation was attempted for the methanol air system however attempts were made to correlate the concentration dependency of diffusion coefficients in the chloro form air system it was found that a quadratic functional relationship in concentration for the diffusion coefficients was the best possible correlation a quadratic function in weight fraction was used to account for the effect of molecular weight differences it was concluded that the difference in molecular weight of the two diffusing species has a pronounced effect on the variation of diffusion coefficients with concentration

multicomponent diffusion discusses the multicomponent diffusion of the three phases of matter the book is comprised of nine chapters that cover studies of multicomponent diffusion and mass transfer with an emphasis on the chemical characteristics responsible for multicomponent diffusion chapter 1 provides an introductory discourse about multicomponent diffusion chapter 2

discusses binary diffusion while chapter 3 covers multicomponent flux equation the measurement of ternary diffusion and the estimation of ternary diffusion coefficients are also explained in the book a chapter then covers the interacting systems and the subsequent chapter talks about membranes without mobile carriers the text also discusses carrier containing membranes and the multicomponent mass transfer the book will be of great use to researchers and professionals whose work requires a good understanding of multicomponent diffusion

diffusion in liquids a theoretical and experimental study aims to discuss the principles applications and advances in the field of diffusion thermal diffusion and thermal conduction in liquid systems the book covers topics such as the principles of non equilibrium thermodynamics diffusion in binary and multicompetent systems and experimental methods of studying diffusion processes in liquids also covered in the book are topics such as the theoretical interpretations of diffusion coefficients hydrodynamic and kinetic theories and diffusion in electrolyte systems the text is recommended for physicists who would like to know more about the concepts and updates in the field of diffusion

though it incorporates much new material this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained

how do whirligig beetles use ripples as a form of sonar and why can t mosquitoes detect the electrical activity of their prey as sharks can readers of air and water will be well rewarded by thinking about these and other questions in the context of physics

written by leading international experts in academia and industry advances in chromatography volume 46 presents all new chapters with thorough reviews on the latest developments in the field volume 46 includes new advances in two dimensional gas chromatography reversed phase liquid chromatography shape selectivity and supercri

this cutting edge reference clearly explains pharmaceutical transport phenomena demonstrating applications ranging from drug or nutrient uptake into vesicle or cell suspensions drug dissolution and absorption across biological membranes whole body kinetics and drug release

from polymer reservoirs and matrices to heat and mass transport in freeze drying and hygroscopicity focuses on practical applications of drug delivery from a physical and mechanistic perspective highlighting biological systems written by more than 30 international authorities in the field transport processes in pharmaceutical systems discusses the crucial relationship between the transport process and thermodynamic factors analyzes the dynamics of diffusion at liquid liquid liquid solid and liquid cultured cell interfaces covers prodrug design for improving membrane transport addresses the effects of external stimuli in altering some natural and synthetic polymer matrices examines properties of hydrogels including synthesis swelling degree swelling kinetics permeability biocompatibility and biodegradability presents mass transfer of drugs and pharmacokinetics based on mass balance descriptions and more containing over 1000 references and more than 1100 equations drawings photographs micrographs and tables transport processes in pharmaceutical systems is a must read resource for research pharmacists pharmaceutical scientists and chemists chemical engineers physical chemists and upper level undergraduate and graduate students in these disciplines

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