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Theories of Sorption and Transport in Polymer Membrane ...

Polymers are penetrable, whilst ceramics, metals, and glasses are generally impenetrable. Diffusion of small molecules through the polymers has significant importance in different scientific and engineering fields such as

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medicine, textile industry, membrane separations,

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determining the diffusion coefficient D of small molecules in polymer matrices is presented. This theory is applied to an arbitrary geometry of the polymer sample and an arbitrary initial penetrant content in the polymer.

(PDF) Diffusion in Polymer Solids and

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Solutions

CO₂ permeation and diffusion behaviors of poly(4-methyl pentene-1) (PMP) with three different degrees of crystallinity were examined at 10 to 45°C. Permeation and diffusion coefficients in ...

The Measurement of Polymer Swelling

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Processes by an ...

Diffusion into and out of polymers is of huge importance for the HSP community. It affects water absorption of structural polymers, flavour scalping (loss of specific flavour components through a package), the behaviour of coatings on polymers, permeation through protective

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clothing and environmental barriers and much, much more.

Diffusion-Controlled Release | SpringerLink

The diffusion cell is an integral part of the wedge interferometer apparatus. The light interference arises in the semi-transparent

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cell walls which are arranged to form a thin wedge where the free diffusion proceeds. The wedge apparatus is applicable to studies of the diffusion process of polymer swelling by a solvent.

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Geoffrey S. Park ...**

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Diffusion in polymer-diluent systems | SpringerLink

Molecular diffusion through polymers and synthetic membranes is an effective, simple and yet reliable means of attaining the controlled release of a variety of active

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agents. The principal devices utilizing this phenomenon are of the reservoir and monolithic types.

Physical Picture for Diffusion of Polymers

Abstract - The Vrentas/Duda proposal for the diffusion of polymer-solvent systems,

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which is based on the free-volume theory, was employed in correlating and predicting mutual diffusion coefficients in highly concentrated polymer solutions. It has been observed that the predictive version of the model is capable of qualitatively representing the experimental data, while the use of an adjustable

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parameter greatly improves the performance of the model.

DIFFUSION COEFFICIENTS IN POLYMER-SOLVENT SYSTEMS FOR ...

This can lead to loss of adhesive strength, production of cracks, leaching of polymer

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fragments, corrosion of metallic substrates and rotting of wood. This damage results from the diffusion of water molecules throughout the polymer chains causing plasticization, local strain, chain rupture and chemical degradation 1, 2, 3.

Therefore, the knowledge of water permeability in composites and in polymer

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matrices is recognized to be of utmost importance.

HSPiP Diffusion | Hansen Solubility Parameters

polymer backbone and the drug diffusion through the porous media is observed to be extremely slow. The significance of this

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method is that it extends the biological lifetime of many drugs, in particular, polypeptides, from minutes to days. For example, release for over 100 days from 1 mm thick polymer-drug slabs has been demon-

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INTERPARTICLE INTERACTIONS DIFFUSION-LIMITED RELEASE

The Case II diffusion is the second most important mechanism of diffusion for the polymer. This is a process of moving boundaries and a linear sorption kinetics, which is opposed to Fickian.

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Diffusion in Polymer Solids and Solutions

solutions, D can reasonably be taken as constant, while in others, e.g. diffusion in high polymers, it depends very markedly on concentration. If F , the amount of material diffusing, and C , the concentration, are both expressed in terms

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of the same unit of quantity, e.g. gram or gram molecules, then it is

THE MATHEMATICS OF DIFFUSION

Physical Picture for Diffusion of Polymers

- Low Molecular Weight ($M < M_e$) chains shown moving past one another.

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Rouse chains, unentangled • High
Molecular weight ($M > M_e$) •
Entanglements in a polymer melt (a short
portion of one chain is outlined in bold). •
Lateral chain motion is severely restricted
by the presence of neighboring chains.

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