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Diffusion of small molecules through the polymers has significant importance in different scientific and engineering fields such as medicine, textile industry, membrane separations, packaging in food industry, extraction of solvents and of contaminants, and etc. Mass transfer through the polymeric

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membranes including dense and porous membranes depends on the factors included solubility and diffusivity of the penetrant into the polymer, morphology, fillers, and plasticization.

Diffusion in Polymer Solids and Solutions

OF DIFFUSION BY J. CRANK BRUNEL UNIVERSITY UXBRIDGE SECOND EDITION CLARENDON PRESS OXFORD 1975. ... the mathematical models of non-Fickian or anomalous diffusion occurring mainly in solvent-polymer systems in the glassy state. The other attempts a systematic review of diffusion in heterogeneous media, both laminates and

THE MATHEMATICS OF DIFFUSION

This can lead to loss of adhesive strength, production of cracks, leaching of polymer 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 matrices is recognized to be of utmost importance.

Diffusion of water through various polymer films: a new ...

J. Crank and G. S. Park eds., "Diffusion in Polymers," Academic Press, ... Controlled Formation of Polymer Nanocapsules with High Diffusion-Barrier Properties and Prediction of Encapsulation ...

Theories of Sorption and Transport in Polymer Membrane ...

Frisch, H. L. 1970-06-01 00:00:00 â Diffusion in Polymersâ edited by J. Crank and G. S. Park, Academic Press, London and New York, 1968; 452 pg. The editors of this book have brought together eleven outstanding investigators who have ably summarized a very large body of information available on diffusion and permeation in polymers in ten chapters.

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Diffusion and permeability in polymers

Diffusion of small molecules through the polymers has significant importance in different scientific and engineering fields such as medicine, textile industry, membrane separations, packaging in...

(PDF) Diffusion in Polymer Solids and Solutions

Diffusion equations first utilized by Crank and Park are used to compute the diffusion constants for the thin films. A thin film sample is suspended in the DVS instrument, and the sorption kinetics for a series of steps in humidity are recorded as usual.

Calculating the Diffusion Constant for Polymer Films using ...

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Diffusion coefficients of several solute-polymer systems can be characterized by an exponentially dependent function $D = D_0 \exp(-AC)$. The cumulative mass uptake after a step increase of the solute concentration at the surface was considered using a film with a finite thickness and a semi-infinite domain. For finite film the diffusion equation was solved numerically by the Crank—Nicholson method.

Diffusion in Polymers with Concentration Dependent ...

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Abstract It is possible to modify the properties of semicrystalline polymers using diffusion to introduce additional functionality. For example, Vitamin E infused polyethylene has antioxidant prope...

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