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Diffusion in Polymer Solids and Solutions

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

A general measurement theory for 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.

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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 clothing and environmental barriers and much, much more.

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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.

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 medicine, textile industry, membrane separations,

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THE MATHEMATICS OF DIFFUSION

Physical Picture for Diffusion of Polymers

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