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~~Matlab program with  
the Crank-Nicholson  
method for the diffusion  
equation~~ Diffusion  
Through a Polymer  
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Topic 6 Polymer  
Permeability Part 1 Cell  
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~~Polymer Permeability  
Part 2 ch 11 Materials  
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Introduction to  
Polymers - Lecture 7.1 -  
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1

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Oxygen permeability  
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Phase Diagrams I:  
Eutectic Calculations  
and Lever Rule Gas  
permeability  
measurement

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Diffusion Viscoelastic  
Models Modeling

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Viscoelastic Behavior  
Viscous \_ Elastic

Behavior of

Polymers~1.wmv

Polymer viscoelasticity

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Law of Diffusion stress

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example problem AS

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factors (OCR A

Chapter 5.3) Atomic

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Crank and G. S. Park,  
Academic Press,  
London and New York,  
1968; 452 pg - Frisch -  
1970 - Journal of  
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“ Diffusion in  
polymers ” edited by J.  
Crank and G. S. Park ...  
Frisch, H. L.

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edited by J. Crank and  
G. S. Park, Academic  
Press, London and New  
York, 1968; 452 pg. The  
editors of this book have  
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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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EDITION  
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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

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heterogeneous media,  
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Diffusion into and out of

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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

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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,



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and etc. Mass transfer through the polymeric 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  
Summary of knowledge

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Polymers © Ink  
about diffusion in high polymers written by a panel of authors, each of whom has made important contributions to developments in the subject. The first chapter introduces the basic techniques of measurement and computation.

Subsequent chapters deal with the diffusion of gases and vapor

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including influence of inhomogeneities ...

Diffusion in Polymers:  
John Crank, Geoffrey S.  
Park ...

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

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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.

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Diffusion of water through various polymer films: a new ...  
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Diffusion In Polymers Crank in highly concentrated polymer solutions. It has been observed that the predictive version of the model is capable of

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qualitatively  
representing the  
experimental data, while  
the use of an adjustable  
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Solids and Solutions

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in polymers, (Book,  
1968) [WorldCat.org]

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diluent systems |

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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



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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 ...

Moisture diffusion in

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thin polymer films is of special interest to a wide range of industrial sectors, including membrane technologies and packaging materials. Method. Diffusion equations first utilized by Crank and Park are used to compute the diffusion constants for the thin films [1].

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### Calculating the Crank

Diffusion Constant for  
Polymer Films using ...  
diffusion in polymers the  
diffusion of a vapor or  
low mw liquid into a  
polymer matrix varies  
widely with the matrix  
structure chemical  
spatial and  
morphological and the  
conditions used it is well  
known that the diffusion  
of the penetrant above

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the t g in an amorphous  
polymer follows fick's  
law crank and park  
1968 even in the vicinity  
of t g

Diffusion In Polymers  
Plastics Engineering  
Abstract It is possible to  
modify the properties of  
semicrystalline polymers  
using diffusion to  
introduce additional  
functionality. For

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### example, Vitamin E

infused polyethylene has antioxidant prope...

A practical model of the diffusion of oil based fluid into ...

The transient diffusion of low molecular weight organic solids, liquids, and gases through polymers has been of great interest in materials science and

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### Polymer physics.[1-6]

Additionally, the diffusion properties of energetic molecules such as 2,4,6-trinitrotoluene (TNT) through food wraps, rubber gloves etc. are very important for developing more effective explosive detection systems.

Nevertheless, to the best of our knowledge, there have been no studies

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Diffusion Kinetics of  
TNT in Nitrile Rubber  
via FTIR-ATR ...

the polymer  
morphology fillers and  
plasticization diffusion is  
the concentration  
gradient driven process  
whereby the absorbed  
molecules are  
transported within the

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Polymer and diffusion

properties are

characterised via

diffusion coefficients

diffusion in polymer

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