

Permeability Basics

- The extent to which a substance can penetrate a polymer depends on sorption (S) and diffusion (D).
- Sorption: solubility of a permeating species as a function of pressure.

$$C = Sp$$

C =concentration of permeating species (mol/m^3)

S =sorption parameter ($\text{mol/m}^3\text{Pa}$)

P =pressure (Pa)

Molecule	Sorption Parameter (S)
He	5.4
N_2	18.4
O_2	34.3
CO_2	201

For semicrystalline polymers above T_g :

$$S = V_{am}S'$$

V_{am} =amorphous volume fraction

$S' = S$ for 100% amorphous polymer

Polymer Permeability

James J. Sheng



Polymer Permeability:

Polymer Permeability J. Comyn, 2012-12-06 Polymers are permeable whilst ceramics glasses and metals are generally impermeable This may seem a disadvantage in that polymeric containers may allow loss or contamination of their contents and aggressive substances such as water will diffuse into polymeric structures such as adhesive joints or fibre reinforced composites and cause weakening However in some cases permeability is an advantage and one particular area where this is so is in the use of polymers in drug delivery systems Also without permeable polymers we would not enjoy the wide range of dyed fabrics used in clothing and furnishing The fundamental reason for the permeability of polymers is their relatively high level of molecular motion a factor which also leads to their high levels of creep in comparison with ceramics glasses and metals The aim of this volume is to examine some timely applied aspects of polymer permeability In the first chapter basic issues in the mathematics of diffusion are introduced and this is followed by two chapters where the fundamental aspects of diffusion in polymers are presented The following chapters then each examine some area of applied science where permeability is a key issue Each chapter is reasonably self contained and intended to be informative without frequent outside reference This inevitably leads to some repetition but it is hoped that this is not excessive

Permeability Properties of Plastics and Elastomers Laurence W. McKeen, 2016-10-19 Permeability Properties of Plastics and Elastomers Fourth Edition provides a comprehensive collection of graphical multipoint and tabular data covering the permeation of liquids vapors and gases through plastic or polymeric materials such as films membranes and containers This updated edition includes an entirely new chapter on sustainable and biodegradable polymers and an extensive introductory section covering fatigue what it is how it is measured and the fundamentals of permeation and permeability properties Foundational information is also provided on the production of films containers membranes and the markets and applications for these materials Presents an essential reference tool part of the daily workflow of engineers and scientists involved in the plastics industry and product design with plastics Helps practitioners gain knowledge of exact permeation rates for liquids vapors or gases through a range of polymeric materials Enables engineers to improve performance of their products where permeability properties are important from where packages need to be near hermetically sealed to where a selectively permeable barrier is required

Permeability of Plastic Films and Coatings Harold Hopfenberg, 2013-11-21

Plastic Films Wilmer A. Jenkins, Kenton R. Osborn, 1992-09-25 This is a complete illustrated guide and reference to today's plastic films for packaging All significant aspects of plastic films for packaging are clearly and concisely presented from materials processes and machinery to applications and regulatory social and economic considerations More than 70 schematics illustrate materials processes and package constructions More than 30 tables provide important reference data in convenient form The authors are leading authorities on plastic packaging films with first hand experience in the R D of many of today's widely used films Published in cooperation with the Institute of Packaging Professionals

Enhanced Oil Recovery Field Case Studies James

J. Sheng, 2013-04-10 *Enhanced Oil Recovery Field Case Studies* bridges the gap between theory and practice in a range of real world EOR settings. Areas covered include steam and polymer flooding, use of foam in situ combustion, microorganisms, smart water based EOR in carbonates and sandstones, and many more. Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field. This book aids that effort providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields. The case studies cover practical problems, underlying theoretical and modeling methods, operational parameters, solutions, and sensitivity studies, and performance optimization strategies benefitting academicians and oil company practitioners alike. Strikes an ideal balance between theory and practice. Focuses on practical problems, underlying theoretical and modeling methods, and operational parameters. Designed for technical professionals covering the fundamental as well as the advanced aspects of EOR.

Food Packaging Gordon L. Robertson, 2005-09-22 A comprehensive and accessible textbook *Food Packaging Principles and Practice* Second Edition presents an integrated approach to understanding the principles underlying food packaging and their applications. Integrating concepts from chemistry, microbiology, and engineering, it continues in the fine tradition of its bestselling predecessor and has been completely updated to include new updated and expanded content. The author divides the book's subject matter into five parts for ease of use. The first part addresses the manufacture, properties, and forms of packaging materials, placing emphasis on those properties that influence the quality and shelf life of food. The second part then details the various types of deteriorative reactions that foods undergo, examines the extrinsic factors controlling their reaction rates, and discusses specific factors influencing shelf life and the methodology used to estimate that shelf life. Chapters on the aseptic packaging of foods, active and intelligent packaging, modified atmosphere packaging, and microwavable food packaging are explored in the third part, while the fourth part describes packaging requirements of the major food groups. The final section examines the safety and legislative aspects of food packaging. The book also includes over 300 industry abbreviations, acronyms, and symbols, and an expansive index. What's New in the Second Edition Includes five new chapters and diagrams that explain recent developments in packaging materials and processes. Provides the latest information on new and active packaging technologies. Presents new updated and expanded references. Adhering to the highly organized format that made the first edition so straightforward and informative, this latest edition of *Food Packaging Principles and Practice* presents students with the most essential and cutting edge information available. The author maintains a website with more information.

Inorganic Membranes: Synthesis, Characterization and Applications Reyes Mallada, Miguel Menéndez, 2008-05-01 Approx 480 pages

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Modern Chemical Enhanced Oil Recovery James J. Sheng, 2010-11-25 Crude oil development and production in U S oil reservoirs can include up to three distinct phases: primary, secondary, and tertiary, or enhanced recovery. During primary recovery, the natural pressure of the reservoir or gravity drive oil into the wellbore, combined with

artificial lift techniques such as pumps which bring the oil to the surface But only about 10 percent of a reservoir's original oil in place is typically produced during primary recovery Secondary recovery techniques to the field's productive life generally by injecting water or gas to displace oil and drive it to a production wellbore resulting in the recovery of 20 to 40 percent of the original oil in place In the past two decades major oil companies and research organizations have conducted extensive theoretical and laboratory EOR enhanced oil recovery researches to include validating pilot and field trials relevant to much needed domestic commercial application while western countries had terminated such endeavours almost completely due to low oil prices In recent years oil demand has soared and now these operations have become more desirable This book is about the recent developments in the area as well as the technology for enhancing oil recovery The book provides important case studies related to over one hundred EOR pilot and field applications in a variety of oil fields These case studies focus on practical problems underlying theoretical and modelling methods operational parameters e.g. injected chemical concentration slug sizes flooding schemes and well spacing solutions and sensitivity studies and performance optimization strategies The book strikes an ideal balance between theory and practice and would be invaluable to academicians and oil company practitioners alike Updated chemical EOR fundamentals providing clear picture of fundamental concepts Practical cases with problems and solutions providing practical analogues and experiences Actual data regarding ranges of operation parameters providing initial design parameters Step by step calculation examples providing practical engineers with convenient procedures

Polyphenylene Oxide and Modified Polyphenylene Oxide Membranes
Geeta Chowdhury, Boguslaw Kruczek, Takeshi Matsuura, 2001-10-31 Fluid membrane material interfaces morphologies of membrane surface and the sub layer underneath the membrane surface and fluid transport through the membrane governed by the above interface and morphology parameters and driving forces involved in process operation all these three aspects together constitute the fundamental physico-chemical and engineering basis for the practical success of Membrane Separation Technology MST in all its applications Quantitative data on the above interface and morphology parameters and applicable transport equations involving the above parameters are needed for membrane design specification of membranes modules and systems and prediction of their performance for any given separation application Even though more than 40 years have elapsed since the emergence of the field of MST there are very few books which deal with all the above three aspects of the subject in an integrated manner This simply shows that the field of MST is still in its early stages of development and only a small fraction of its vast potential has been practically realized to date Still what has already accomplished is extraordinary both in its scope and in its impact on scientific research and service to society at large

Encyclopedia of Agricultural, Food, and Biological Engineering Dennis R. Heldman, Carmen I. Moraru, 2010-10-21 Examining the role of engineering in delivery of quality consumer products this expansive resource covers the development and design of procedures equipment and systems utilized in the production and conversion of raw materials into food and

nonfood consumer goods With nearly 2000 photographs figures tables and equations including 128 color figures the book emphasizes and illustrates the various engineering processes associated with the production of materials with agricultural origin With contributions from more than 350 experts and featuring more than 200 entries and 3600 references this is the largest and most comprehensive guide on raw production technology Polyvinyl Alcohol/Halloysite Nanotube Bionanocomposites as Biodegradable Packaging Materials Zainab Waheed Abdullah, Yu Dong, 2020-10-10 This book focuses on the preparation and characterisation of polyvinyl alcohol PVA halloysite nanotube HNT bionanocomposite films with different HNT contents for potential use in food packaging It examines the effect of material composition and nanofiller content on mechanical thermal and optical properties in relation to their morphological structures and also comprehensively describes the water resistance biodegradation and migration rates of such bionanocomposites as well as their barrier properties in terms of water vapour transmission and water vapour air and oxygen permeabilities Further this book discusses the use of Nielsen model and Cussler model to predict the relative permeability of bionanocomposites demonstrating that Nielsen model is more effective and in better agreement with experimental data obtained Lastly it discusses the application of bionanocomposite films in food packaging to prolong the shelf life of freshly cut avocados and peaches Micro/Nano Science and Engineering Y. Al-Douri, 2014-04-17 Selected peer reviewed papers from the Joint International Conference on Nanoscience Engineering and Management BOND21 August 19 21 2013 Penang Malaysia *Permeability Properties of Plastics and Elastomers* Liesl K. Massey, 2003-01-01 This extensively revised and updated second edition of the only data handbook available on the properties of commercial polymeric films details the permeability characteristics of over 125 major plastic and elastomer packaging materials New to this edition are 92 resin chapters containing textual summary information including category general description processing methods applications and general permeability considerations for water vapor oxygen and other gases including aroma and flavor The product data is presented in graphical and tabular format retaining the familiar format of the first edition and allowing easy comparison between materials and test conditions

Polymer Permeability J Comyn, 1985-02-28 *Gas Permeability Through Polymer Membranes* Yang Wang, 1998

Barrier Polymers and Structures American Chemical Society. Meeting, 1990 This volume provides a comprehensive treatment of the state of science and technology in the area of barrier polymers and barrier structures Among the topics covered in its 20 chapters are structure property relationships of Saran materials and nylons approaches to engineering around the sensitivity of barrier polymers to humidity characterization of sorption kinetics in several glassy polymers for a broad spectrum of penetrants complex barrier structures and flavor scalping It presents fundamental principles along with complementing discussions of applications of these principles **Petroleum Engineering Handbook** Howard B.

Bradley, Fred W. Gipson, 1987 Rubber World John Robertson Dunlap, Henry Clemens Pearson, 1929 Enhanced Recovery of Pennsylvania Grade Crude Oil with Surfactant Solutions, 1978 **Proceedings**, 1996

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Table of Contents Polymer Permeability

1. Understanding the eBook Polymer Permeability
 - The Rise of Digital Reading Polymer Permeability
 - Advantages of eBooks Over Traditional Books
2. Identifying Polymer Permeability
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Polymer Permeability
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polymer Permeability
 - Personalized Recommendations
 - Polymer Permeability User Reviews and Ratings
 - Polymer Permeability and Bestseller Lists

5. Accessing Polymer Permeability Free and Paid eBooks
 - Polymer Permeability Public Domain eBooks
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6. Navigating Polymer Permeability eBook Formats
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polymer Permeability
 - Highlighting and Note-Taking Polymer Permeability
 - Interactive Elements Polymer Permeability
8. Staying Engaged with Polymer Permeability
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polymer Permeability
9. Balancing eBooks and Physical Books Polymer Permeability
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polymer Permeability
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Polymer Permeability
 - Setting Reading Goals Polymer Permeability
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Polymer Permeability
 - Fact-Checking eBook Content of Polymer Permeability
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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