

# **Basic Principles Of Membrane Technology**

Mattheus F. A. Goosen, Walid H. Shayya

#### **Basic Principles Of Membrane Technology:**

Basic Principles of Membrane Technology Marcel Mulder, 1996-09-30 The field of synthetic membrane science and technology is an active growing field involving an interdisciplinary mixture of polymer chemistry physical chemistry and chemical engineering Some membrane processes are reasonably well understood and have been commercialised for some period of time Other membrane processes have only recently been employed in commercial applications and still other processes are only in formative research stages This volume gives a comprehensive compendium of the basic principles in the field of synthetic membranes The following topics are covered basic aspects of membrane processes materials and material properties membrane preparation and characterisation membrane transport concentration polarisation and fouling process and module design The second edition of this well established text has been considerably expanded and updated and many chapters now contain sections giving solved and unsolved problems Audience This book is recommended as a textbook for undergraduate and graduate students as well as a comprehensive reference for engineers scientists and technical Basic Principles of Membrane Technology J. Mulder, 1996-09-30 III 2 Preparation of synthetic membranes 72 III 3 Phase inversion membranes 75 III 3 1 Preparation by evaporation 76 III 3 2 Precipitation from the vapour phase 76 III 3 3 Precipitation by controlled evaporation 76 Thermal precipitation 76 III 3 4 III 3 5 Immersion precipitation 77 Preparation techniques for immersion precipitation 77 III 4 Flat membranes 77 III 4 1 78 III 4 2 Tubular membranes 81 III 5 Preparation techniques for composite membranes 82 III 5 1 Interfacial polymerisation Dip coating 83 III 5 2 III 5 3 Plasma polymerisation 86 III 5 4 Modification of homogeneous dense membranes 87 III 6 Phase separation in polymer systems 89 III 6 1 Introduction 89 III 6 1 1 Thermodynamics 89 III 6 2 Demixing processes 99 III 6 2 1 Binary mixtures 99 III 6 2 2 Ternary systems 102 III 6 3 Crystallisation 104 III 6 4 Gelation 106 III 6 5 Vitrification 108 III 6 6 Thermal precipitation 109 III 6 7 Immersion precipitation 110 III 6 8 Diffusional aspects 114 III 6 9 Mechanism of membrane formation 117 III 7 Influence of various parameters on membrane morphology 123 III 7 1 Choice of solvent nonsolvent system 123 III 7 2 Choice of the polymer 129 III 7 3 Polymer concentration 130 III 7 4 Composition of the coagulation bath 132 III 7 5 Composition of the casting solution 133 III 7 Basic Principles of Membrane Technology Marcel Mulder, 2000 Basic Principles of Membrane Technology Marcel Mulder, 2012-12-06 III 2 Preparation of synthetic membranes 72 III 3 Phase inversion membranes 75 III 3 1 Preparation by evaporation 76 III 3 2 Precipitation from the vapour phase 76 III 3 3 Precipitation by controlled evaporation 76 Thermal precipitation 76 III 3 4 III 3 5 Immersion precipitation 77 Preparation techniques for immersion precipitation 77 III 4 Flat membranes 77 III 4 1 78 III 4 2 Tubular membranes 81 III 5 Preparation techniques for composite membranes 82 III 5 1 Interfacial polymerisation Dip coating 83 III 5 2 III 5 3 Plasma polymerisation 86 III 5 4 Modification of homogeneous dense membranes 87 III 6 Phase separation in polymer systems 89 III 6 1 Introduction 89 III 6 1 1 Thermodynamics 89 III 6 2 Demixing processes 99 III 6 2 1 Binary mixtures 99 III 6 2 2 Ternary systems 102 III 6 3

Crystallisation 104 III 6 4 Gelation 106 III 6 5 Vitrification 108 III 6 6 Thermal precipitation 109 III 6 7 Immersion precipitation 110 III 6 8 Diffusional aspects 114 III 6 9 Mechanism of membrane formation 117 III 7 Influence of various parameters on membrane morphology 123 III 7 1 Choice of solvent nonsolvent system 123 III 7 2 Choice of the polymer 129 III 7 3 Polymer concentration 130 III 7 4 Composition of the coagulation bath 132 III 7 5 Composition of the casting solution Basic Principles of Membrane Technology I. Mulder, 2013-04-18 Membranes playa central role in our daily life or as indicated by one of my foreign colleagues Richard Bowen If you are tired of membranes you are tired of life Biological membranes are hardly used in industrial applications but separations with synthetic membranes have become increasingly important Today membrane processes are used in a wide range of applications and their numbers will certainly increase Therefore there is a need for well educated and qualified engineers chemists scientists and technicians who have been taught the basic principles of membrane technology However despite the growing importance of membrane processes there are only a few universities that include membrane technology in their regular curricula One of the reasons for this may be the lack of a comprehensive textbook For me this was one of the driving forces for writing a textbook on the basic principles of membrane technology which provides a broad view on the various aspects of membrane technology I realise that membrane technology covers a broad field but nevertheless I have tried to describe the basic principles of the various disciplines Although the book was written with the student in mind it can also serve as a first introduction for engineers chemists and technicians in all kind of industries who wish to learn the basics of membrane technology Of Membrane Technology B. N. Diwedi, 2007 Basic Principles Of Membrance Technology Mulder, The field of synthetic membrane science and technology is an active growing field involving an interdisciplinary mixture of polymer chemistry physical chemistry and chemical engineering Some membrane processes are reasonably well understood and have been commercialized for some period of time Other membrane processes have only recently been employed in commercial applications and still other processes are only in formative research stages Water Management, Purification, and Conservation in Arid Climates Mattheus F. A. Goosen, Walid H. Shayya, 1999-09-28 This three volume series presents a broad and integrated approach to water management purification and conservation in arid climates Volume one includes an introductory chapter on water problems and water resources in arid climates followed by specific chapters covering various aspects of water management Volumes two and three deal with water purification and water conservation respectively Many textbooks on water issues normally deal with only one of these areas This series covers all three areas with an emphasis on the problems faced by arid regions The three volume series will appeal to industry specialists in desalination and wastewater treatment irrigation engineers graduate and undergraduate students in hydrology water management and conservation professionals government personnel involved in water resources development decision makers environmentalists employees of the petrochemical industry and individuals wishing to specialize in water management purification and conservation

Synthetic Membranes and Membrane Separation Processes Takeshi Matsuura,1993-12-17 Synthetic Membranes and Membrane Separation Processes addresses both fundamental and practical aspects of the subject Topics discussed in the book cover major industrial membrane separation processes including reverse osmosis ultrafiltration microfiltration membrane gas and vapor separation and pervaporation Membrane materials membrane preparation membrane structure membrane transport membrane module and separation design and applications are discussed for each separation process Many problem solving examples are included to help readers understand the fundamental concepts of the theory behind the processes The book will benefit practitioners and students in chemical engineering environmental engineering and materials science Membrane Technology in the Chemical Industry United Nations. Economic Commission for Europe,1990

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#### **Table of Contents Basic Principles Of Membrane Technology**

- 1. Understanding the eBook Basic Principles Of Membrane Technology
  - The Rise of Digital Reading Basic Principles Of Membrane Technology
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Basic Principles Of Membrane Technology
  - 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 Basic Principles Of Membrane Technology
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Basic Principles Of Membrane Technology
  - Personalized Recommendations

- Basic Principles Of Membrane Technology User Reviews and Ratings
- Basic Principles Of Membrane Technology and Bestseller Lists
- 5. Accessing Basic Principles Of Membrane Technology Free and Paid eBooks
  - Basic Principles Of Membrane Technology Public Domain eBooks
  - Basic Principles Of Membrane Technology eBook Subscription Services
  - Basic Principles Of Membrane Technology Budget-Friendly Options
- 6. Navigating Basic Principles Of Membrane Technology eBook Formats
  - o ePub, PDF, MOBI, and More
  - Basic Principles Of Membrane Technology Compatibility with Devices
  - Basic Principles Of Membrane Technology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Basic Principles Of Membrane Technology
  - Highlighting and Note-Taking Basic Principles Of Membrane Technology
  - Interactive Elements Basic Principles Of Membrane Technology
- 8. Staying Engaged with Basic Principles Of Membrane Technology
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Principles Of Membrane Technology
- 9. Balancing eBooks and Physical Books Basic Principles Of Membrane Technology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Principles Of Membrane Technology
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Principles Of Membrane Technology
  - Setting Reading Goals Basic Principles Of Membrane Technology
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Principles Of Membrane Technology
  - Fact-Checking eBook Content of Basic Principles Of Membrane Technology

- 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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