

shown in fig. VIII - 8. A perforated central pipe is located in the center of the module through which the feed solution enters. In this concept the fibers are arranged in a loop and are potted on one side, the permeate side. One of the disadvantages of the 'outside-in' type is that channelling may occur. This means that the feed has a tendency to flow along a fixed path thus reducing the effective membrane surface area. With a central pipe, the feed solution is more uniformly distributed throughout the module so that the whole surface area is more effectively used.

The hollow fiber module is used when the feed stream is relatively clean, as in gas separation and pervaporation. Hollow fiber modules have also been used in the case of seawater desalination, another relatively clean feed stream. The module construction given in figure VIII - 8 (left figure) is that of a typical hyperfiltration module. In gas separation the module will be of the 'outside-in' type to avoid high pressure losses inside

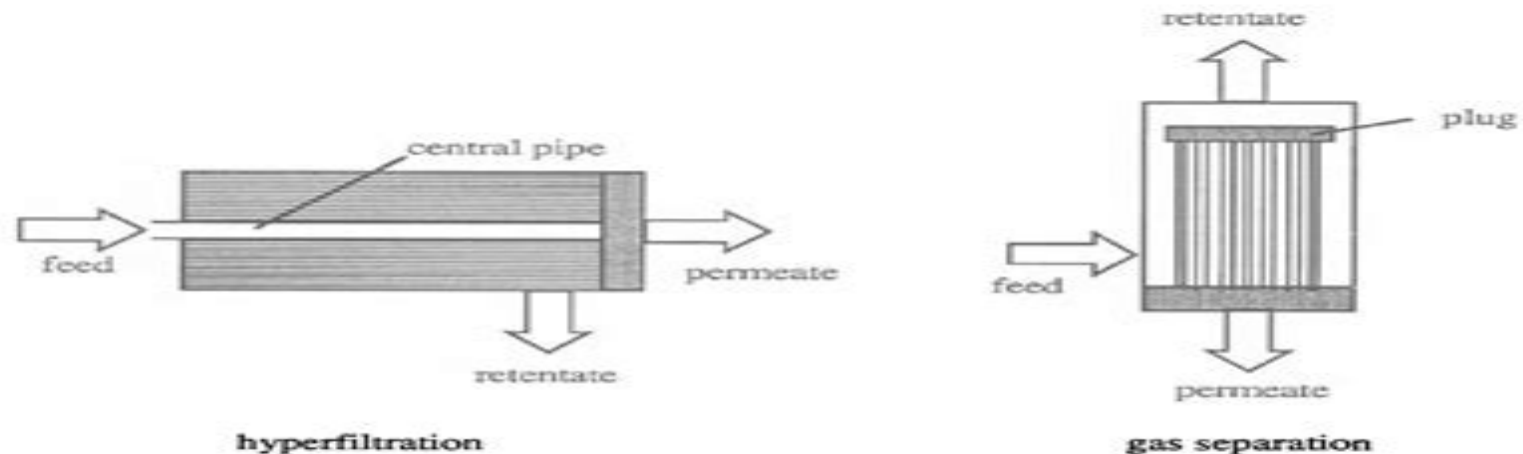


Figure VIII - 8. Special hollow fiber construction for hyperfiltration (left) and gas separation (right).

the fiber (see figure VIII - 8, right figure), whereas in pervaporation it is more advantageous to use the 'inside-out' type to avoid increase in permeate pressure within the fibers. (The 'outside-in' concept can also be used with short capillary fibers for pervaporation). Another advantage of the inside-out concept is that the very thin selective top layer is better protected, whereas a higher membrane area can be achieved with the outside-in concept.

VIII . 7 Comparison of module configurations

The choice of the module is mainly determined by economic considerations. This does not

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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
 - 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
 - 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
 - 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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