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Cells; 7 Gas Separation with Membranes; 7.1 Introduction
7.2 Materials and Transport Mechanisms7.2.1 Organic Polymers; 7.2.2 Background; 7.2.3 Polymers for Commercial Gas-separation Membranes; 7.2.4 Ultrahigh Free Volume Polymers; 7.2.5 Inorganic Materials for Gas-separation Membranes; 7.2.6 Carbon Membranes; 7.2.7 Perovskite-type Oxide Membranes for Air Separation; 7.2.8 Mixed-matrix Membranes; 7.3 Basic Process Design; Acknowledgments; References; Part II Current Application and Perspectives; 1 The Separation of Organic Vapors from Gas Streams by Means of Membranes; Summary; 1.1 Introduction; 1.2 Historical Background
1.3 Membranes for Organic Vapor Separation1.3.1 Principles; 1.3.2 Selectivity; 1.3.3 Temperature and Pressure; 1.3.4 Membrane Modules; 1.4 Applications; 1.4.1 Design Criteria; 1.4.2 Off-gas and Process Gas Treatment; 1.4.2.1 Gasoline Vapor Recovery; 1.4.2.2 Polyolefin Production Processes; 1.5 Applications at the Threshold of Commercialization; 1.5.1 Emission Control at Petrol Stations; 1.5.2 Natural Gas Treatment; 1.5.3 Hydrogen/Hydrocarbon Separation; 1.6 Conclusions and Outlook; References; 2 Gas-separation Membrane Applications; 2.1 Introduction; 2.2 Membrane Application Development 2.2.1 Membrane Selection2.2.2 Membrane Form; 2.2.3 Membrane Module Geometry; 2.2.4 Compatible Sealing Materials; 2.2.5 Module Manufacture; 2.2.6 Pilot or Field Demonstration; 2.2.7 Process Design; 2.2.8 Membrane System; 2.2.9 Beta Site; 2.2.10 Cost/Performance; 2.3 Commercial Gas-separation Membrane Applications; 2.3.1 Hydrogen Separations; 2.3.2 Helium Separations; 2.3.3 Nitrogen Generation; 2.3.4 Acid Gas-Separations; 2.3.5 Gas Dehydration; 2.4 Developing Membrane Applications; 2.4.1 Oxygen and Oxygen-enriched Air; 2.4.2 Nitrogen Rejection from Natural Gas; 2.4.3 Nitrogen-enriched Air (NEA) References

Sommario/riassunto

Membrane Technology - a clean and energy saving alternative to traditional/conventional processes.Developed from a useful laboratory technique to a commercial separation technology, today it has widespread and rapidly expanding use in the chemical industry. It has established applications in areas such as hydrogen separation and recovery of organic vapors from process gas streams, and selective transport of organic solvents, and it is opening new perspectives for catalytic conversion in membrane reactors. Membrane technology provides a unique solution for industrial waste treatment and