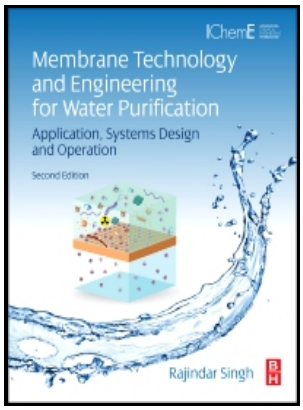
# Membrane technology in the chemical industry

## Wiley-VCH - Membrane Technology In The Chemical Industry

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Also the new technique of membrane chromatography allows efficient purification of monoclonal antibodies.

**Membrane Technology In The Chemical Industry**

However, the team found that when they created sub-50 nanometer CMS films, the CMS layer was very compact with low microporosity.

**Membrane Technology in the Chemical Industrie**

Pratima Bajpai, in , 2016 11. She has been working on the development of polymeric materials and membranes for different applications for over 20 years, with over 65 papers in international journals and 100 contributions to congresses. Membrane technology in the chemical industry is applied to brine filtration, natural rubber, polysolicon cutting fluid recovery and lithium recovery from salt lake brines.

**Membrane Technology in the Chemical Industrie**

This review provides a clear outline for researchers on the recent developments in FO. These technologies use pressure gradient in order to separate the liquid stream through a porous or semipermeable membrane as two liquid streams. Optimizing the membrane film thickness helps to minimize the energy required to separate chemical or gaseous mixtures.

**Membrane Technology In The Chemical Industry**

Membrane technology concentrates high molecular weight solids from a low molecular weight fraction of weak black liquor. However, ensuring the CMS film thickness is just right could enable more energy-efficient purification of chemical products, KAUST researchers have shown. Still there are many technical challenges to optimize and make membrane technology more competitive, in the market, large-scale industries and communities.

**Membrane**

Gas separation membrane applications 3. Membranes in the form of hollow fibers can be conveniently used to implement crystallization of pharmaceutical compounds. The development of fundamental knowledge on understanding and minimization of membrane is also important and can be realized through accurate process design and operating conditions.

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