

# Membrane technology in the chemical industry

**Wiley-VCH - [PDF] Membrane technology in the chemical industry second, revised and extended edition**

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Notes: Includes bibliographical references and index.

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These integrated systems work under steady state and deliver several advantages such as improved process control with higher productivity and longer lifetime, which increased commercial feasibility of the overall process.

**Membrane technology in the chemical industry (eBook, 2001) [public-docs.talentcoach.ir]**

Some of those are well settled i. However, for some of the latter they are still more expensive than the less environmentally friendly, but still regulation-compliant, alternatives. It can be used in bio-production clarification, edible liquid salt purification, nanofiltration system sulfate removal, primary brine purification and so on.

## Membrane Technology in the Chemical Industry

The most utilized membrane technologies in the pulp and paper industry are presented as follows Dillard, 1998; Adnan et al. From a global perspective of the industrial-scale processes, membranes have succeeded in being alternate technologies to conventional separation techniques, allowing more compact systems with the added advantages of a modular design and separations, which have challenged the way process engineers think and design a process. Membrane filtration techniques of reverse osmosis and nanofiltration are being combined with bioreactors and advanced oxidation processes to treat wastewaters from pharmaceutical plants.

## American Membrane Technology Associations (AMTA)

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. In the last four years she has dedicated her time to the membrane development for fuel cells, coordinating German and European projects in the field.



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