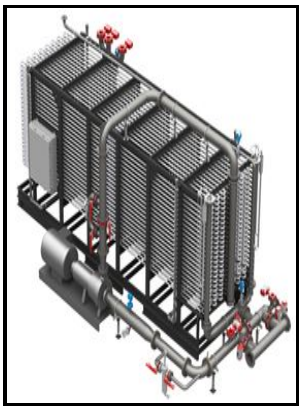
Membrane technology in the chemical industry

Wiley-VCH - Membrane Technology in the Chemical Industrie



Description: -
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Egypt -- Biography
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Law -- Indonesia.
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Socialism.
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Social classes.
Membranes (Technology)
Membrane separation.Membrane technology in the chemical industry
-Membrane technology in the chemical industry
Notes: Includes bibliographical references and index.
This edition was published in 2001

Tags: #Membrane #technology #in #the #chemical #industry #(eBook, #2001) # [play.fridaynightfunk.rf.gd]

[PDF] Membrane technology in the chemical industry second, revised and extended edition

Benefits and drawbacks of membrane technology. Half of the energy consumed in the food processing industry is toward concentration and drying.

Membrane Technology

Presently available membranes for liqiud serparation 5. Membrane processes are used to treat vent streams according to stipulated clean air regulations or to separate organic components from process streams.

American Membrane Technology Associations (AMTA)

The weak black liquor, that is, the black liquor with lower solids content, usually has to be concentrated using steam to increase the solids content to improve energy efficiency of evaporation. This is one of the powerful features of this technology. This is so because of the broad relation between wealth and energy consumption, as depicted in Figure 2.

Membrane technology in the chemical industry (eBook, 2001) [play.fridaynightfunk.rf.gd]

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Membrane Technology: in the Chemical Industry

Developed from a useful laboratory technique to a commercial separation technology, today it has widespread and rapidly expanding use in the chemical industry. Reduction in energy cost for black liquor evaporation Evaporation volume reduced Inorganic content to evaporators is reduced resulting in less fouling Active alkali concentrated in permeate for improved make-up liquor Lower boiling point rise with ultrafiltration

concentration Evaporator or recovery boiler bottlenecks eliminated Based on Bhattacharjee and Bhattacharya 2006 ; Bhattacharjee et al.

Membrane Technology

Developed from a useful laboratory technique to a commercial separation technology, today it has widespread and rapidly expanding use in the chemical industry. For instance, corn wet milling uses 93. Membrane filtration techniques of reverse osmosis and nanofiltration are being combined with bioreactors and advanced oxidation processes to treat wastewaters from pharmaceutical plants.

Sweet spot for membrane thickness offers sustainable separations

Membranes are currently considered amongst the best available technologies BAT in many process and waste management applications.

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