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Direct Contact Membrane Distillation (DCMD)

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Membrane distillation Technology & Applications Hein Weijdema, CTO May 2014. Membrane Distillation • Membrane Distillation is a breakthrough technology with unique characteristics

- It can treat almost any water source
- It runs on low-grade heat
- It produces pure distillate
- It has high recovery ratios. A novel technology: membrane + thermal separation.

~~PPT - Membrane distillation Technology & Applications ...~~

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Membrane Distillation Seminar ppt. MD is a thermally driven process, in which water vapour transport occurs through a non wetted porous hydrophobic membrane. The term MD comes from the similarity between conventional distillation process and its membrane variant as

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both technologies are based on the vapour-liquid equilibrium for separation and both of them require the latent heat of evaporation for the phase change from liquid to vapour which is achieved by heating the feed solution.

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Membrane distillation is a membrane separation process which may overcome some limitations of other membrane technologies. In particular, high solute concentrations can be reached, overcoming concentration polarization phenomena and ultrapure water can be produced as a permeate.

## MEMBRANE DISTILLATION

- Vacuum Membrane Distillation (VMD), in which the permeate side is vapor or air under reduced pressure, and if needed, permeate is condensed in a separate device. This configuration is useful when volatiles are being removed from an aqueous solution [21,22].

~~Membrane distillation – SlideShare~~

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The influence of the physical properties on membrane permeability includes: (1) The effective area for mass transfer is less than the total membrane area because the membrane is not 100% porous; (2) For most practical membranes, the membrane pores do not go straight through the membrane and the path for vapour transport is greater than the thickness of the membrane; and (3) The inside walls of the pores increase the resistance to diffusion by decreasing the momentum of the vapour molecules.

## ~~An Introduction to Membrane Distillation~~

Membrane Distillation (MD) is a thermally-driven separation process, in which only vapour molecules transfer through a microporous hydrophobic membrane. The driving force in the MD process is the...

## ~~(PDF) Membrane distillation: A comprehensive review~~

Membrane distillation (MD) as a thermally driven process with moderate operating temperatures is a known effective technology for saltwater desalination. In this chapter, the permeate gap membrane distillation (PGMD) configuration, as a novel sustainable MD design having internal heat recovery characteristics, is introduced and numerical modeling of the heat and mass transfer phenomena in this configuration is studied.

## ~~Membrane Distillation—an overview | ScienceDirect Topics~~

Membrane Distillation (MD) is widely employed in separation processes such as: Desalination; Concentration in food industries; Acid manufacturing; Removing organic and heavy metals;

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Treating radioactive waste; Sterlitech carries membranes specifically for membrane distillation: Novamem PEEK and PVDF; PTFE (Unlaminated, Laminated, and Aspire Laminated)

~~Membrane Distillation – Membrane/Process Development ...~~

Abstract Membrane distillation has been developed to stage that commercial applications will become feasible in the near future, aiming at fresh water extraction from seawater.

~~Membrane distillation – producing high quality water from ...~~

Membrane distillation is a thermally driven separation process in which separation is driven by phase change. A hydrophobic membrane presents a barrier for the liquid phase, allowing the vapour phase to pass through the membrane's pores. The driving force of the process is a partial vapour pressure difference commonly triggered by a temperature difference.

~~Membrane distillation – Wikipedia~~

Method and installation description. Membrane distillation (MD) is a separation process where a micro-porous hydrophobic membrane separates two aqueous solutions at different temperatures. The hydrophobicity of the membrane prevents mass transfer of the liquid, whereby a gas-liquid interface is created. The temperature gradient on the membrane results in a vapour pressure difference, whereby volatile components in the supply mix evaporate through the pores (10 nm – 1 µm) and, via ...

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Lee JG, Kim WS “ Numerical modelling of the vacuum membrane distillation process ” Desalination 2013;331:46–55. 13. Lovineh SGh, Asghari M, Rajaei B. “ Numerical simulation and theoretical study on simultaneous effects of operating parameters in vacuum membrane distillation ” Desalination 2013;314:59–66. 14. Shim SM, Lee JG, Kim WS.

~~PPT on Desalination | Desalination | Solar Energy~~

Osmotic distillation (OD) is a non-thermal membrane distillation variant, in which a microporous hydrophobic membrane separates two aqueous solutions at different solute concentrations. The OD process can be operated at atmospheric pressure and ambient temperature. The driving force is the vapour pressure gradient across the membrane which

~~Principle, Advances, Limitations and Future Prospects in ...~~

Membrane Distillation (MD) is one of the emerging nonisothermal membrane separation processes, which refers to a thermally driven transport of vapor through nonwetted porous hydrophobic membranes, the driving force being the vapor pressure difference between the two sides of the membrane pores.

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## Membrane Distillation | ScienceDirect

Polyvinylidene fluoride (PVDF) flat-sheet membranes were prepared for membrane distillation (MD). Pure water was used as a pore-forming additive in the casting solution. Dimethylacetamide (DMAC) was used as the solvent. The polymer solutions were cast over a glass plate or over a nonwoven polyester backing material.

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