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33: Basic principle  
of MD, mechanism,  
process  
parameters,  
membranes,  
applications

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Distillation: a  
Possible Solution  
to the Worlds  
Water Crisis -  
Aquiva  
foundation**

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*Membrane  
Distillation, a  
thermally driven  
separation water  
treatment  
technology*

Membrane  
Distillation Module  
Production  
Innovation in  
desalination  
technologies:  
Forward osmosis  
and Membrane

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distillation

Direct Contact  
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Distillation (DCMD)

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Distillation

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~~How~~

~~Seawater~~

~~Desalination Works~~

**Solar distillation  
and desalination  
of ocean salt  
water for the  
masses.**

**Distillation**

**Column Distillation**

~~The Operation of a~~

~~Water Still How Its~~



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*Adsorption*

*Desalination*

*(MEDAD) □□□□□□ |*

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powered by a Wells

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Desalination  
Purposes | Matlab |  
Simulink Model  
**Membrane**

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Membrane distillation  
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Applications Hein  
Weijdema, CTO  
May 2014.

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Distillation •

Membrane  
Distillation is a  
breakthrough  
technology with

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Membrane

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.

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Distillation Seminar

ppt. MD is a

thermally driven

process, in which

water vapour

transport occurs

through a non

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wetted porous hydrophobic membrane. The term MD comes from the similarity between conventional distillation process and its membrane variant as both technologies are based on the vapour-liquid equilibrium for



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Distillation Ppt

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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Distillation Seminar  
ppt Seminars

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Topics

PowerPoint  
Presentation

Membrane  
distillation is a  
membrane  
separation process  
which may  
overcome some  
limitations of Page  
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Membrane  
Distillation Ppt  
other membrane

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technologies. In  
particular, high  
solute  
concentrations can  
be

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distillation is a~~

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separation process  
which may

overcome some  
limitations of other  
membrane  
technologies. In  
particular, high  
solute  
concentrations can  
be reached,  
overcoming  
concentration  
polarization

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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,

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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—  
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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

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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



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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

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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

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Membrane  
operating  
Distillation Ppt

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

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internal heat recovery characteristics, is introduced and numerical modeling of the heat and mass transfer phenomena in this configuration is studied.

Membrane Distillation—an

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overview |

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Distillation Ppt  
Topics

Membrane

Distillation (MD) is  
widely employed in  
separation

processes such as:

Desalination;

Concentration in  
food industries;

Acid

manufacturing;

Removing organic

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

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~~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

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from seawater.

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Membrane

distillation—

producing high

quality water from

...

Membrane

distillation is a

thermally driven

separation process

in which separation

is driven by phase

change. A



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Membrane  
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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

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Membrane  
distillation  
temperature  
difference.

Distillation Ppt

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distillation—  
Wikipedia

Method and  
installation  
description.

Membrane  
distillation (MD) is  
a separation  
process where a  
micro-porous

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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

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gradient on the membrane results in a vapour pressure difference, whereby volatile components in the supply mix evaporate through the pores (10 nm – 1  $\mu$ m) and, via ...

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distillation | EMIS

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Membrane

distillation is a

membrane

separation process

which may

overcome some

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other membrane

technologies. In

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particular, high  
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concentrations can  
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Lee JG, Kim WS

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13. Lovineh SGh,  
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2013;314:59-66.

14. Shim SM, Lee  
JG, Kim WS.

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~~Desalination | Solar  
Energy~~

Osmotic distillation  
(OD) is a non-  
thermal membrane



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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

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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

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nonisothermal  
Distillation Ppt  
membrane

separation

processes, which  
refers to a

thermally driven  
transport of vapor  
through nonwetted  
porous

hydrophobic  
membranes, the  
driving force being  
the vapor pressure

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difference between  
the two sides of the  
membrane pores.

Membrane  
Distillation |  
ScienceDirect  
Polyvinylidene  
fluoride (PVDF) flat-  
sheet membranes  
were prepared for  
membrane  
distillation (MD).  
Pure water was

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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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