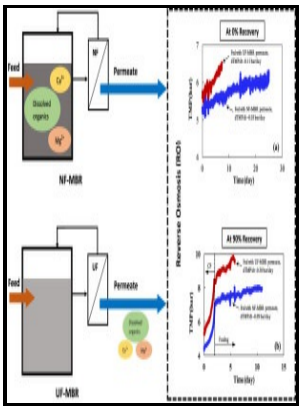
Reverse osmosis and nanofiltration.

American Water Works Association - About Reverse Osmosis/Nanofiltration



Description: -
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Petroleum -- Refining -- Technological innovations.
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Zhuangzi
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Nanofiltration
Drinking water -- Purification
Water -- Purification -- Membrane filtration
Water -- Purification -- Reverse osmosis processReverse osmosis and nanofiltration.
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AWWA manual -- M46Reverse osmosis and nanofiltration.
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Reverse Osmosis & Nanofiltration

To understand how reverse osmosis works, it is helpful to understand osmosis.

The Principle of Reverse Osmosis and Nanofiltration

You will receive a newsletter from Safe Drinking Water Foundation approximately every three months. In addition, membrane—water contact angles have been measured.

Reverse Osmosis vs Nanofiltration Membrane Process: What Is the Difference?

Desalination techniques A major focus of the course will be the application of these technologies to desalination.

Reverse Osmosis vs Nanofiltration Membrane Process: What Is the Difference?

Nano recovery rates are between 70 and 80 percent where reverse osmosis is between 65 and 75 percent.

Reverse Osmosis & Nanofiltration

Considering the growing needs for freshwater and the increasing need for affordable alternatives, the current trend is to use a desalination technology with the lowest energy consumption. What do These Three Processes Remove? Click on Chart to Enlarge.

About Reverse Osmosis/Nanofiltration

The only possible way to reach equilibrium is for water to pass from the pure water compartment to the salt-containing compartment, diluting the concentration of the salt solution. When the feed water contains high amounts of sulphate ions, hydrochloric acid replaces sulphuric acid.

About Reverse Osmosis/Nanofiltration

The natural phenomenon of osmosis occurs when pure water flows from a dilute saline solution through a membrane into a higher concentrated saline solution. Membranes bring about the separation. The chart below summarizes the types of particles that are removed from the water with each type of membrane filter.

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