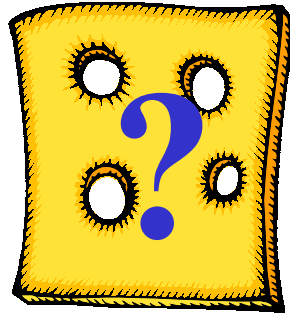


Membrane Separations

What is a membrane?

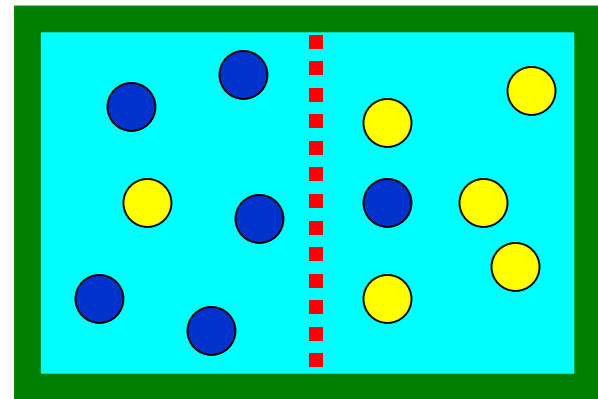
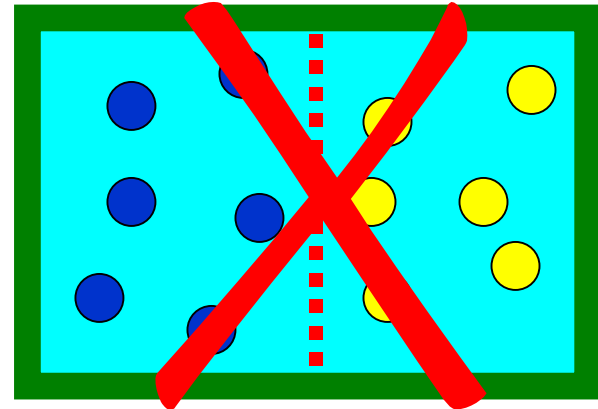
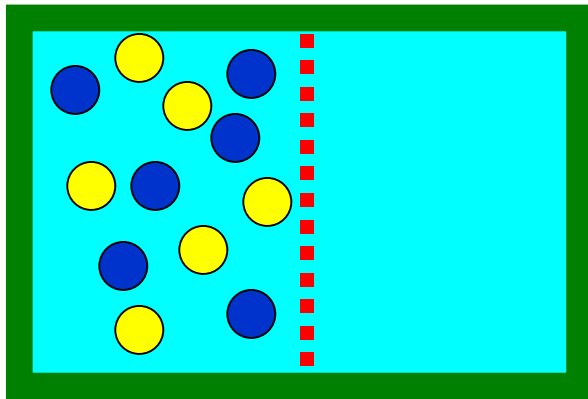


A membrane is...

...a physical barrier (no necessarily solid) that gives, or at least helps, the separation of the components in a mixture.

Membrane Separations

The sorting demon...



Membrane Separations

- Membrane processes are not based in thermodynamic equilibrium but based in the different transport rate of each species through the membrane.
- The membrane market is still growing. In the 1986-96 decade, the sales related to membrane products and systems doubled.
- In 1998, these sales were over 5000 million €.

Membrane Separations

SEPARATION PROCESSES AND MECHANISMS

PRINCIPAL MECHANISM CAUSING SEPARATION PROCESSES

