



Diffusion depends on:

1. Driving force (ΔC), moles per unit volume (kmol/m^3).
2. The distance in the direction of transfer (Δz), meter (m).
3. Diffusivity coefficient, unit area per unit time (m^2/s).

Various Mass Transfer Phenomenon

Evaporation:

Drying
Concentration
Baking
Frying
Boiling

Diffusion:

Salt through cheese curd
Smoke through meat
Marinade or curing solution through meat
Lye in tomato peeling

Not mass transfer:

Moving a fluid from one place to another



DEPARTMENT OF MECHANICAL ENGINEERING, 19MEB302/ Heat and Mass Transfer –

UNIT V - MASS TRANSFER Topic - Diffusion Mass Transfer

